

Supplementary Figures and Tables

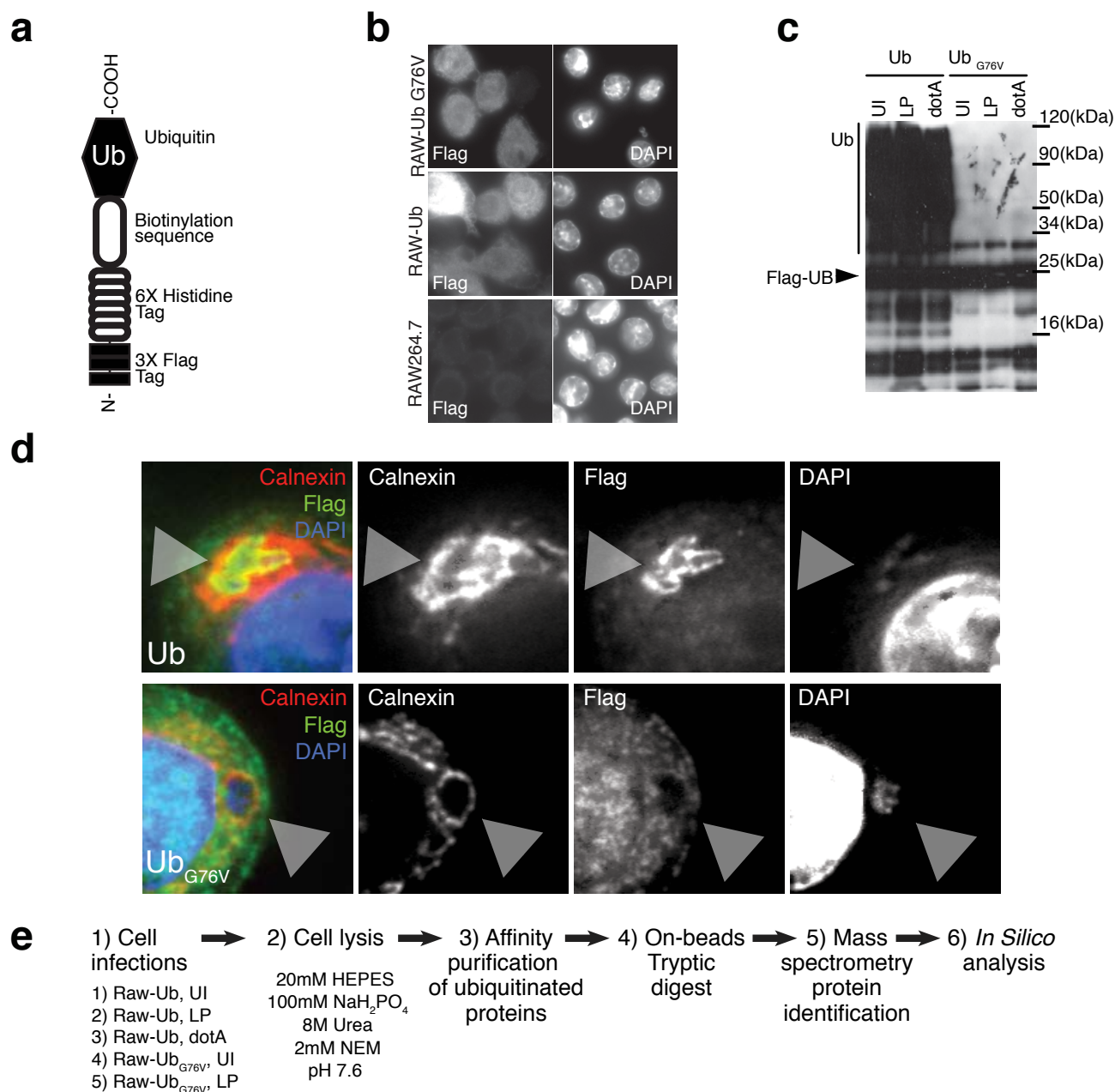
‘Pathogen signatures activate a ubiquitylation pathway that modulates function of the metabolic checkpoint kinase mTOR’

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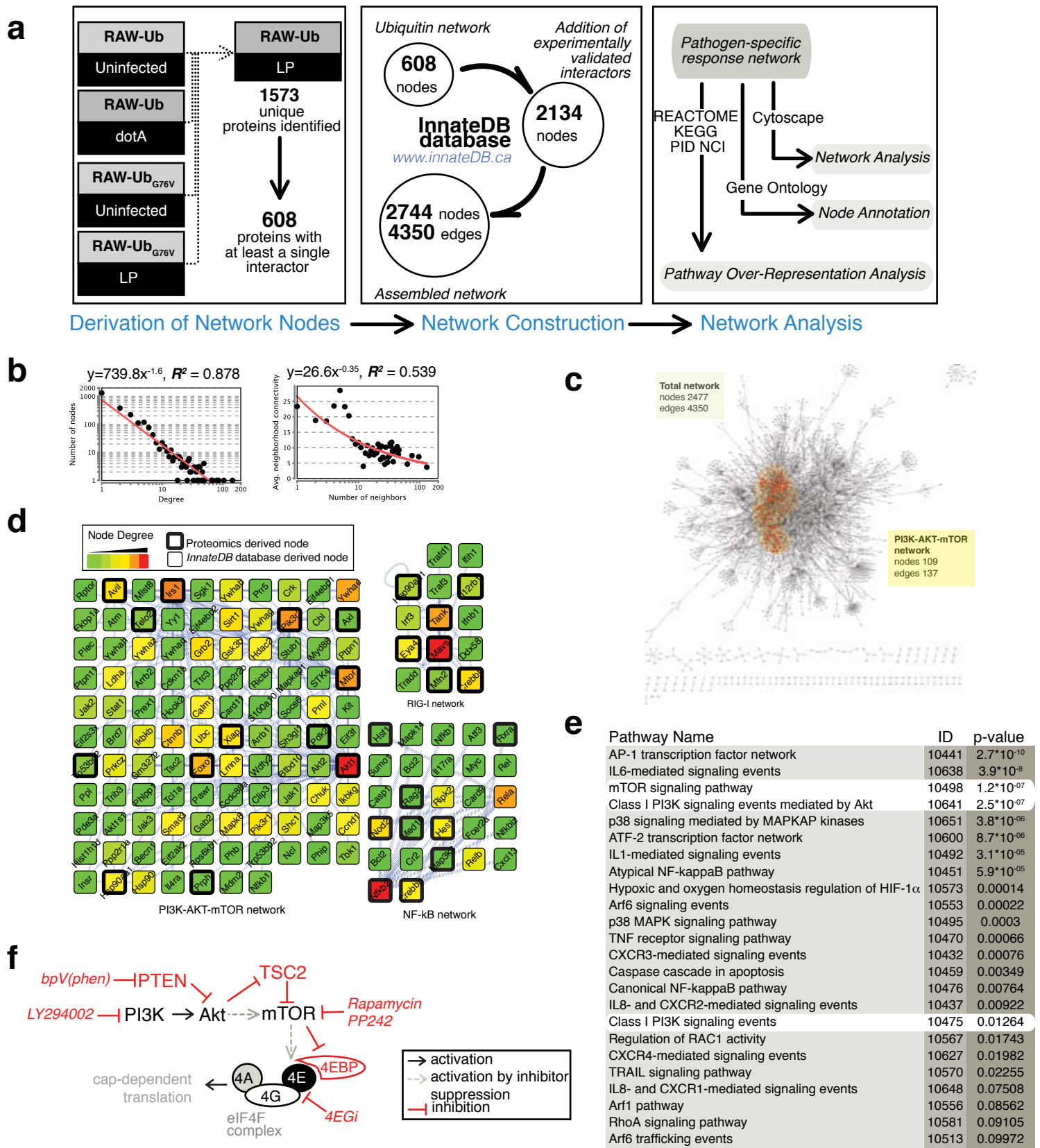
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Supplementary Figure 1



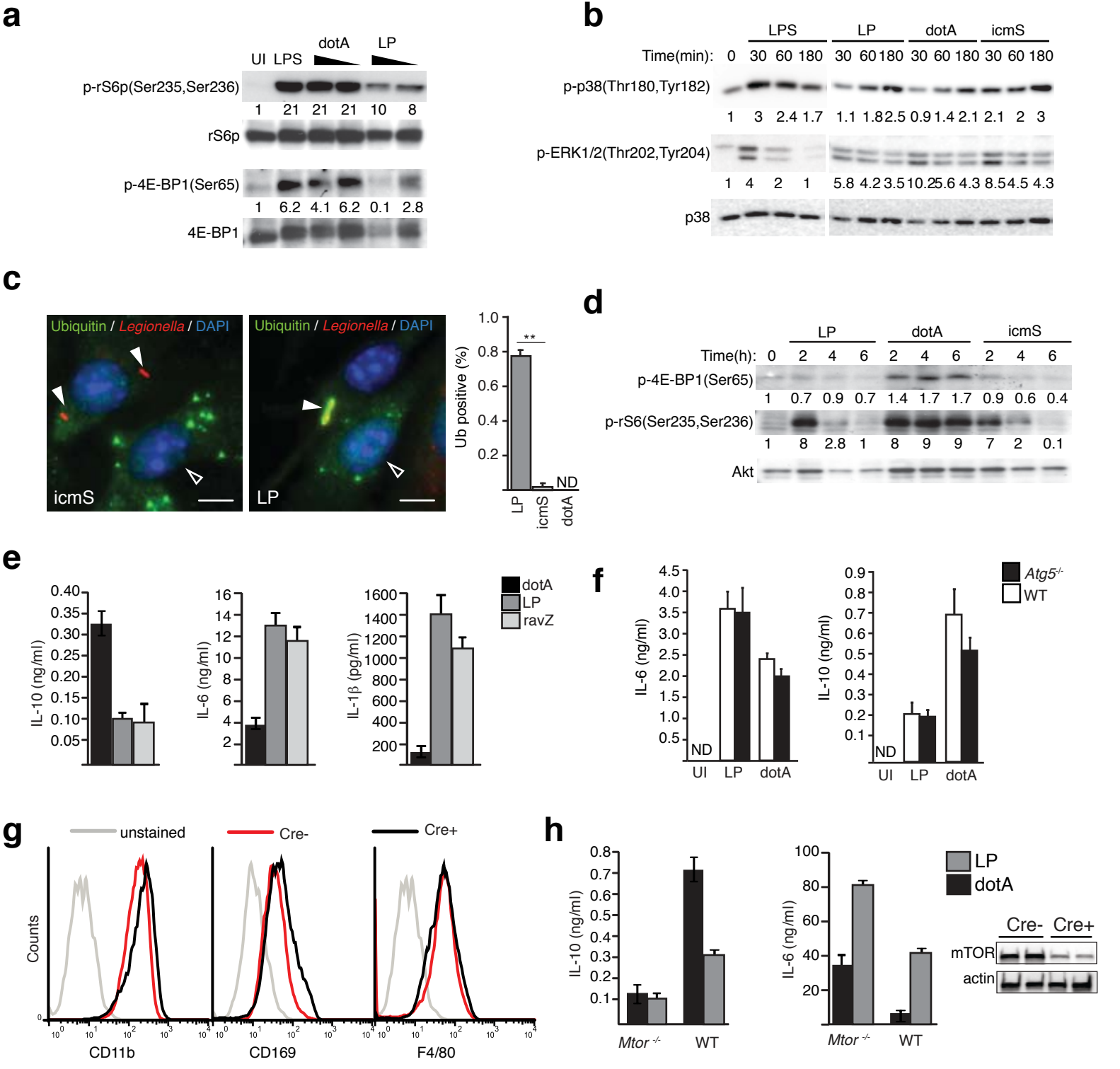
Supplementary Figure 1. Generation of RAW267.4 macrophages expressing TAP-Ub (a) Topology of the Tandem-affinity tagged (TAP)-Ubiquitin expression construct expressed by the RAW-Ub macrophages. Ubiquitin was fused to 3XFlag, 6XHistidine and a 75-aa biotinylation motif derived from a *Propionibacterium shermanii* transcarboxylase (b) Immunofluorescence micrographs of parental and derived stable cell lines expressing TAP-Ubiquitin stained with anti-Flag antibody (c and d) WT but not the UB_{G76V} Ubiquitin mutant is conjugation competent (c) Immunoblot analysis of TAP-Ub incorporation in ubiquitin conjugates from lysates of stable cell lines uninfected (UI), infected with *Legionella* (LP) or dotA for 4hrs [MOI=40]. (d) The conjugation competent TAP-Ub allele phenocopies endogenous ubiquitin and accumulates on the *Legionella*-containing vacuole in infected RAW-Ub cells. Immunofluorescence micrographs of infected cells stained with anti-Calnexin, anti-Flag and DAPI. LCVs contain DAPI-stained bacteria and accumulate Calnexin. (e) Experimental setup used for identification of ubiquitin-regulated responses in RAW-UB cell infected with different *Legionella* strains for 4hrs [MOI=40]. Cell lysis and protein affinity purification were completed in highly denaturing conditions with a buffer containing 8M Urea to preserve protein post translational modifications.

Supplementary Figure 2



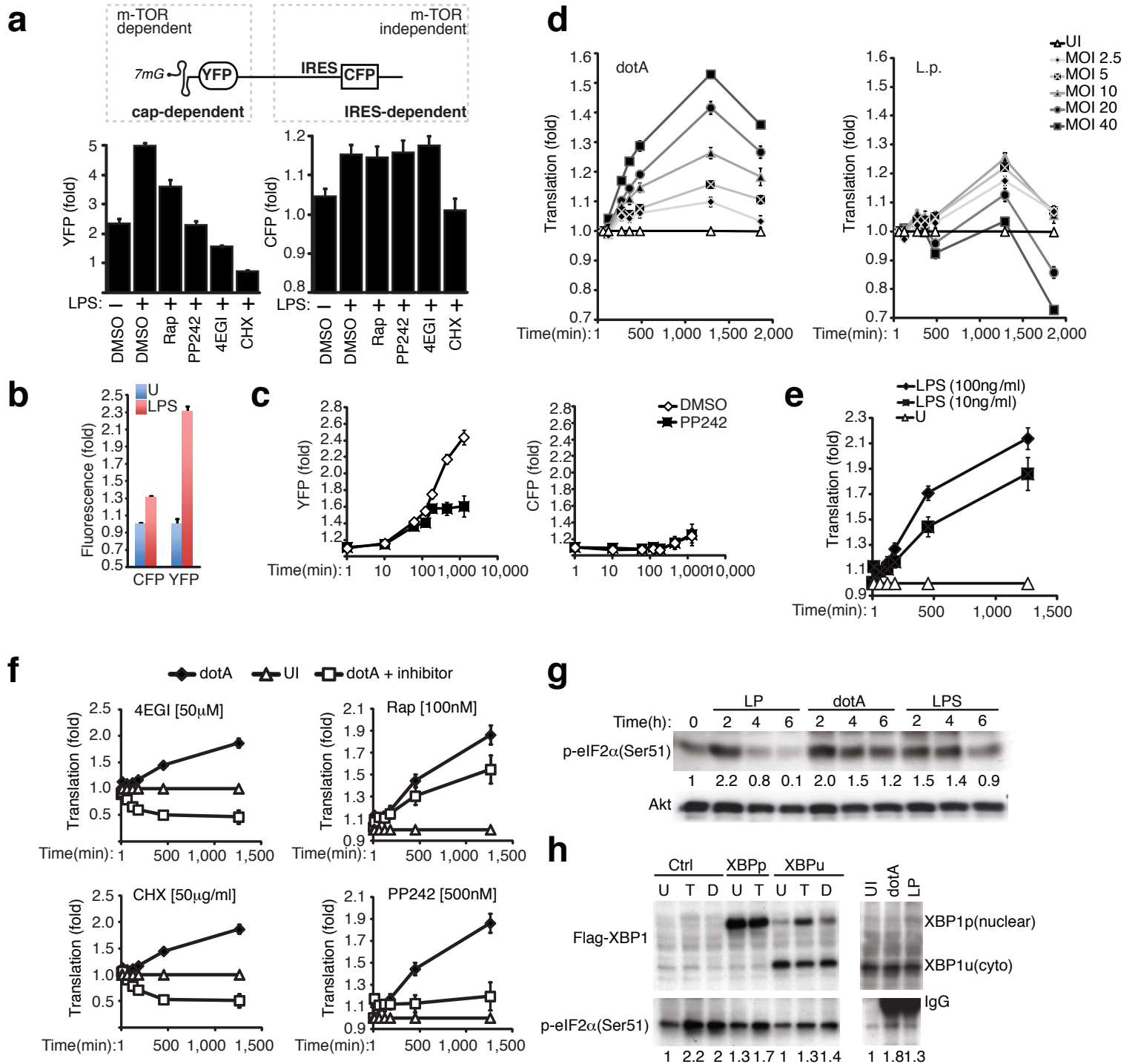
Supplementary Figure 2. Pathogen-specific network assembly and pathway analysis (a) Schematics of the pathogen response network analysis in macrophages activated by *Legionella pneumophila*. Nodes unique for RAW-Ub macrophages infected with *Legionella* (LP) were determined by analysis of affinity purified polypeptides identified by mass spectrometry. Network was constructed by the addition of known interactors one degree removed from the experimental nodes (InnateDB database). (b) Power law curve fitted node degree distribution (correlation = 0.878) and neighborhood connectivity distribution (correlation = 0.539) of the total network. (c) Force-directed layout of the pathogen-induced response network. (d) Grid layout of the PI3K-AKT-mTOR, NF-κB and RIG-I sub-network. Nodes identified by proteomics analysis are highlighted. (e) Cellular pathways (PID NCI database) over-represented in the pathogen-specific network generated using hypergeometric algorithm (InnateDB) based on the number of pathway components represented within the network. (f) Regulators of the mTOR pathway. Pharmacological inhibitors (LY294002, bpV(phen), Rapamycin, PP242, 4EGI) and negative protein regulators (PTEN, TSC2 and 4E-BP1/2) are highlighted in red.

Supplementary Figure 3



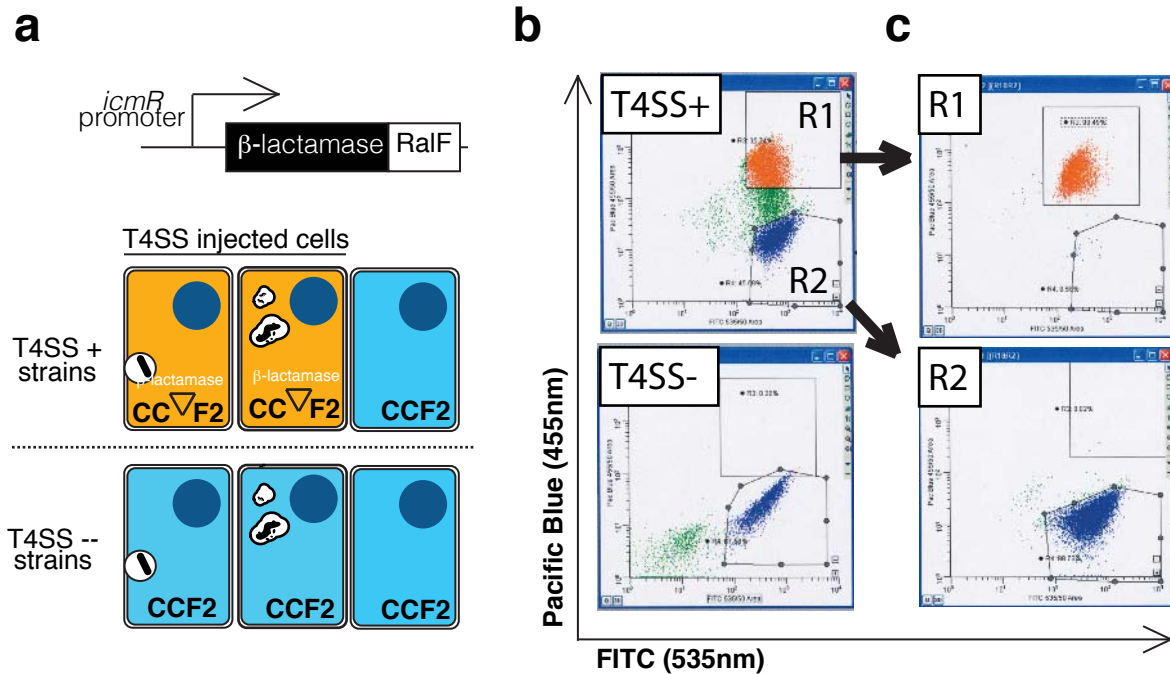
Supplementary Figure 3. BMMs responses to *Legionella* infection (a) MOI-dependent suppression of mTOR signaling in *Legionella* (LP) infections. Phosphorylation analysis of 4E-BP1 and rS6p in BMMs infected for 3hrs as indicated [MOI= 40 or 20] (b) Kinetics of ERK1/2 and p38 phosphorylation induced by different *Legionella* strains in BMMs infected as indicated [MOI=20]. (c) Ubiquitinated proteins accumulation at the *Legionella*-containing vacuole (LCV). Representative fluorescent micrographs of synchronized infections of BMMs stained with ubiquitinated polypeptide antibody (FK2) [Bar = 5µm]. *Legionella*-containing vacuoles are indicated with open arrowheads. Quantitation of ubiquitin recruitment to LCV (n>200) is shown, average + s.d of technical triplicates. (***) p = 6.7X10⁻⁷ (paired T-test) (d) Suppression of mTOR signaling by the icmS strain. Immunoblot analysis of 4E-BP1 and rS6p phosphorylation in BMMs infected as indicated [MOI =10]. (e-f) Cytokine secretion by different BMMs infected as indicated for 20hrs [MOI=6]. Averages of technical replicates + s.d are shown. (g) FACS analysis of cell surface expression of macrophage markers and immunoblot analysis of mTOR expression in BMMs differentiated from progenitor cells derived from *Mtor^{flx/flx}* littermates lacking (Cre-) or expressing Cre recombinase (Cre+). (h) Cytokine secretion by *Mtor^{flx/flx}* Cre+ (*Mtor^{-/-}*) and *Mtor^{flx/flx}* Cre- (WT) BMMs infected as indicated for 20hrs [MOI=6]. Averages of technical replicates + s.d are shown.

Supplementary Figure 4



Supplementary Figure 4. Kinetic analysis of protein translation in live macrophages stably expressing dual fluorescence translational reporter (a) Increase in YFP and CFP fluorescence in the bicistronic reporter expressing RAW264.7 cells stimulated with LPS (100ng/ml) in the presence translation inhibitors for 8hrs – rapamycin (100nM), PP242 (10μM), 4EGI-1 (5μM) or cycloheximide (50μg/ml). (b) Changes in cap-dependent and IRES-dependent translation monitored by increased YFP and CFP fluorescence, respectively, induced by LPS (100ng/ml). (c) The mTOR inhibitor PP242 blocks induction of cap-dependent YFP fluorescence but not IRES-driven CFP fluorescence in starved cells following addition of growth factors (fetal bovine serum, 10% v/v) (d) Kinetic and MOI analysis of cap-dependent translation suppression in response to *Legionella* infection. CFP fluorescence was used as a normalization factor for the number of cells and cell viability. (e) LPS-induced dose-dependent increase in cap-dependent translation (f) Induction of the cap-dependent YFP fluorescence by dotA is sensitive to inhibition of mTOR (rapamycin and PP242), eIF4F complex assembly (4EGI-1) and translation elongation (cycloheximide). Values in all the panels represent averages of technical triplicates + standard deviation. (g-h) eIF2α regulation in response to *Legionella* infection. Immunoblot analysis for phospho-eIF2α in bone marrow-derived macrophages (g) and HEK293-Fcy-expressing cells (h) infected as indicated. DTT (D) and Thapsigargin (T) are known stimulators of eIF2α phosphorylation and were used as positive controls. XBPu processing results in the expression of XBPp and is a readout for activation of (D) and (T)-induced responses. (U) unstimulated, (UI) uninfected

Supplementary Figure 5



Supplementary Figure 5. β -Lactamase based assay for isolation of T4SS injected cells from cell cultures infected with *Legionella* (a) Macrophages loaded with the fluorescent dye CCF2 were infected with w.t or dotA strains expressing β -lactamase fused to the C-terminal secretion signal sequence of the early *Legionella* effector RalF. Translocation of the β -lactamase fusion protein in the cytosol of infected cells by the *Legionella* T4SS causes CCF2 cleavage and shift in fluorescence emission from 535nm to 455nm. (b-c) Representative FACS sort of BMMs infected with either wt (T4SS+) or dotA (T4SS-) strains expressing β -lactamase-RalF fusion. Pre-sort (b) and post-sort (c) analysis of infected BMMs.

Supplementary Figure 6

a

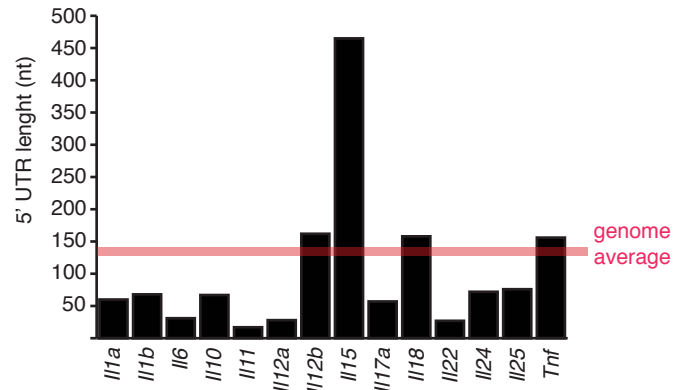
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1                               25                               50
//10 ACAUUUAGAG ACUUGCUCUUGCACU ACCAAAGCCACAAGGCAGCCUUGCA
    GAAAAGAGAGCUCCAUC AUG
//6  CCAAGAA CGAUAGUCA UUCA GAA ACCGCU AUG
//1a AAGUCUCCAGGGCAGAGAGGGAGUC AACUCAUUGGCGCUUGAGUCGGCAA
    AGAAAUCAAG AUG
//1b CGAGGCCUAAUAGGCUCAUCUGGGA UCCUCUCCAGCCAAGCUUCCUUGUG
    CAAGUGUCUGAAGCAGCU AUG
Tnf  CCUCAGCGAGGACAGCAAGGGACUA GCCAGGAGGGAGAACAGAAACUCCA
    GAACAUCUUGGAAA UAGCUCCAGA AAAGCAAGCAGCCAACCAGGCAGGU
    UCUGUCCCUUUCACUCACUGGCCCA AGGCGCCACAUCUCCCUCCAGAAAA
    GACACC AUG
Ifnb1 GAAUACACGAAUUCU AGAGUCCAU ACCCACGGAGAAAGGACAUUCUAAAC
    UGCAACCUUUCGAAGCCUUUGCUCU GGCACAACAGGUAGUAGGCGACACU
    GUUCGUGUUGUCAAC AUG
  
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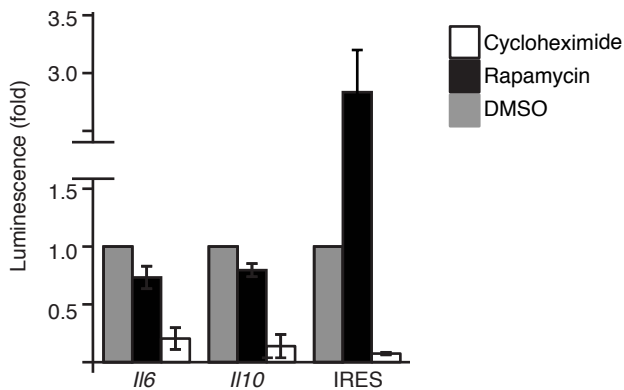
b

<u>Cytokines 5' UTRs</u>	<u>TOPs containing 5' UTRs</u>
▽ //10 ...ACATTTAGAGACTTGCTCTT	▽ Rsp20 ...CCTTTCTGAGCCC
//6 ...CCAAGAACGATAGTCAATTC	Cct2 ...CTTCTCTCTTTC
//1a ...AAGTCTCCAGGGCAGAGAGG	Nme2 ...ATTCTCTTGCTT
//1b ...CGAGGCCTAATAGGCTCATC	
Tnf ...CCTCAGCGAGGACAGCAAGG	
Ifnb1 ...GAATACACGAATTCTAGAGT	

c

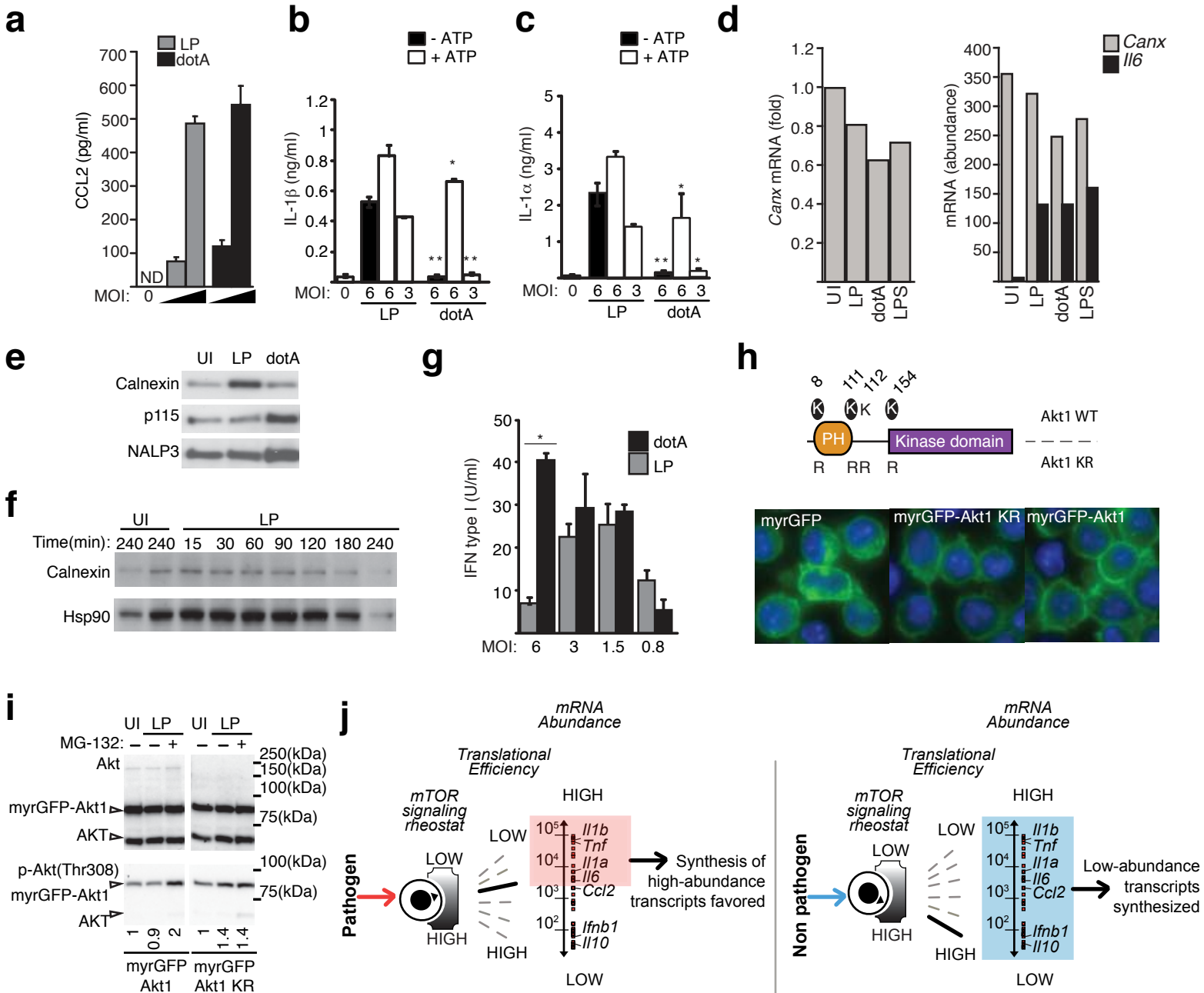


d



Supplementary Figure 6. Structural and functional analysis of the 5'UTR of cytokine mRNAs (a) 5'UTR nucleotide sequence of several pro- and anti-inflammatory cytokine mRNAs. **(b)** Cytokine genes lack 5'-Terminal Oligopyrimidine sequences (TOPs). Pyrimidines, highlighted in red, are not enriched in the 5' UTRs of cytokine mRNAs. Translation of TOPS-containing mRNAs is sensitive to mTOR suppression. Genes encoding bona fide TOPs are shown. **(c)** The 5' UTR length for most cytokine mRNA is shorter than the length average for the mouse genome. **(d)** Expression of luciferase fused to the 5' UTR of mouse //6, //10 or picornavirus IRES sequence in HK293cells transfected for 6hrs. Inhibitors were added at 2hrs post transfection. Luciferase assays were normalized to vehicle controls and represent average of triplicates + standard deviation.

Supplementary Figure 7



Supplementary Figure 7. Host responses regulated by Akt and translation in *Legionella* infections (a-c) Cytokine responses in infected BMMs. Average values of technical replicates + s.d. are shown (*) $p < 0.05$ (paired T-test) (a) Secretion of CCL2 induced by LP or dotA [MOI=3 or 6] (b-c) ELISA of secreted IL-1 β (b) and IL-1 α (c) produced by BMMs infected as indicated for 18hrs followed stimulation with ATP [1mM] for 30min. Averages of technical replicates + s.d. Significance is indicated between cells infected with LP compared to dotA infections (*) $p < 0.05$ (**) $p < 0.005$. (d-f) Changes in Calnexin expression induced by LP infection. (d) *Canx* and *Il6* mRNA in BMMs infected as indicated for 4hrs [MOI = 20] or stimulated with LPS [100ng/ml] as determined by *qPCR*. Relative abundance for each transcript shown was normalized to *Gapdh* mRNA. (e) Induction of Calnexin protein in LP infections [7hrs, MOI=10]. (f) Calnexin turnover in BMMs treated with cycloheximide [50 μ g/ml] and infected as indicated. (g) Type I interferon activity secreted by BMMs infected as indicated as determined by a bioassay. Average values of technical replicates + s.d. are shown (*) $p=0.01$ (paired T-test) (h) Schematic of lysine residues on Akt1 ubiquitinated in response to pathogenic *Legionella* that were mutated to arginines in the KR allele. Representative micrographs of J774 mouse macrophage cell lines stably expressing myrGFP, myrGFP-Akt1 or myrGFP-Akt1 KR alleles (i) The proteasome inhibitor MG-132 rescued the loss of phosphorylated myrGFP-Akt1 triggered by LP infection, whereas the phosphorylated KR allele was unaffected. J774 cells stably expressing myrGFP-Akt1 or the myrGFP-Akt1 KR allele were infected in the presence/absence of MG-132 [25 μ g/ml] for 2hrs [MOI=15]. (j) Model depicting how an mTOR rheostat is tuned in response to pathogen infection. During infection by a pathogenic microbe such as virulent *Legionella*, mTOR activity is suppressed and cap-dependent translation is low. These conditions favor expression of the highly abundant transcripts encoding pro-inflammatory cytokines. During infection by a non-pathogenic microbe, such as dotA, mTOR activity and translational initiation is high, and low abundance transcripts encoding immunosuppressive cytokines can be translated, which balances the inflammatory response to prevent host damage.

Table S1. List of proteins identified by LC/MS-MS from affinity purifications of ubiquitinated polypeptides specific for Raw-UB macrophages infected with pathogenic *Legionella*

Uniprot ID	Gene symbol	Gene name	# of validated interactions
1	P42227	Stat3	149
2	P45481	Crebbp	91
3	P62960	Ybx1	59
4	P31750	Akt1	59
5	O09000	Ncoa3	45
6	Q9WVL2	Stat2	30
7	Q60855	Ripk1	37
8	P63017	Hspa8	36
9	O8CIH5	Plc2	36
10	O61188	Ezh2	34
11	Q9CSN1	Snw1	34
12	P28700	Rxra	33
13	O35607	Bmpr2	30
14	P35569	Irs1	29
15	O35613	Fasx	27
16	Q9JLN9	Mtor	27
17	P70347	IDBG-null	25
18	P07901	Hsp90aa1	24
19	P09055	Itgb1	24
20	P48432	Sox2	24
21	P39053	IDBG-null	23
22	O6PGF3	Med16	21
23	O9ES52	Inpp5d	21
24	O35526	Stx1a	20
25	P09450	Junb	20
26	P70677	Casp3	20
27	P97465	Dok1	20
28	O03267	Ikzf1	20
29	O921K9	Bcl7b	19
30	O9CQU5	Zwint	19
31	Q9CZA6	Nde1	19
32	O9JJJ7	Porcn	19
33	O9R1E0	Foxo1	18
34	O921N2	Orc1	18
35	O88447	Klc1	17
36	O00560	Il6st	17
37	O02858	Tek	17
38	O80TH2	Erb2ip	17
39	O9WTK5	Nfk2	17
40	O35730	Rinq1	16
41	Q61084	Map3k3	16
42	O811D0	Dla1	16
43	Q8BT07	Cep55	16
44	P27870	Vav1	15
45	P97797	Sirpa	15
46	Q60989	Xiap	15
47	Q62018	Ctr9	15
48	O62312	Tqfr2	15
49	O9OUN3	Blnk	15
50	O08908	Pik3r2	14
51	O35082	Kl	14
52	O35615	Zfp1	14
53	P53995	Anapc1	14
54	Q61140	Bcar1	14
55	O77S28	Nac1	14
56	Q9WVG6	Carm1	14
57	P04426	Wnt1	13
58	P23819	Gria2	13
59	P24860	Ccnb1	13
60	P35428	Hes1	13
61	P42669	Pura	13
62	P58929	Gmeb2	13
63	Q60636	Prdm1	13
64	Q61625	Gria2	13
65	O9SK90	IDBG-null	13
66	Q90BG3	Ap2b1	13
67	Q9JHG7	Pik3ca	13
68	O88569	IDBG-null	12
69	P23772	Gata3	12
70	P41183	Bcl6	12
71	Q61234	Snta1	12
72	O68FD5	Ctfc	12
73	O8C9M2	Ccdc15	12
74	O8CIE6	Copa	12
75	O90253	Numb	12
76	P23818	Gria1	11
77	P50220	Nkx2-1	11
78	P63328	Ppp3ca	11
79	P97432	Nbr1	11
80	O63Z7W	Inadl	11
81	Q88H74	Nup107	11
82	P17427	Ap2a2	10
83	P20152	Vim	10
84	P21784	Rag2	10
85	P22361	Hnf1a	10
86	Q60665	Skil	10
87	O61550	Rad21	10
88	O61937	Npm1	10
89	O63932	Map2k2	10
90	O6P921	Smarcd3	10
91	Q75NR7	Recq4	10
92	O99MD9	Nasp	10
93	O9D902	Gtf2e2	10
94	O9DBC7	Prkar1a	10
95	O35717	Socs2	9
96	O54692	Zw10	9
97	O70157	Top3a	9
98	O70477	Pknx1	9
99	P49718	Mcm5	9
100	P70365	Ncoa1	9
101	P80313	Cct7	9
102	O3UKC1	Tax1bp1	9
103	O69Z11	Sh3rf1	9
104	O8CFE3	Rcor1	9
105	O99NE9	Pbx4	9

106	O9JM73	Srf	serum response factor	9
107	O35904	Pik3cd	phosphatidylinositol 3-kinase catalytic delta polypeptide	8
108	O70421	Fzd1	frizzled homolog 1 (Drosophila)	8
109	O88487	Dync1l2	dynein cytoplasmic 1 intermediate chain 2	8
110	P18111	Cdx1	caudal type homeobox 1	8
111	P30681	Hmgb2	high mobility group box 2	8
112	P48972	Myl2	myeloblastosis oncogene-like 2	8
113	P52293	Kona2	karyopherin (importin) alpha 2	8
114	P80316	Cct5	chaperonin containing Tcd1, subunit 5 (epsilon)	8
115	O03157	Aplp1	amyloid beta (A4) precursor-like protein 1	8
116	O3TLR7	Dtl	denticleless homolog (Drosophila)	8
117	O60848	Hells	helicase, lymphoid specific	8
118	O7TMB8	Cyfp1	cytoplasmic FMR1 interacting protein 1	8
119	O80VW5	IDBG-null	whirlin	8
120	O8JZ09	Eif3b	eukaryotic translation initiation factor 3, subunit B	8
121	O8K117	Wipf1	WAS/WASL interacting protein family, member 1	8
122	O8R387	Br08	bromodomain containing 8	8
123	O8VCF0	Mavs	mitochondrial antiviral signaling protein	8
124	O8VE28	Nkd2	naked cuticle 2 homolog (Drosophila)	8
125	O90WV4	Mif1	myeloid leukemia factor 1	8
126	O9Z248	Aebp2	AE binding protein 2	8
127	O09110	Map2k3	mitogen-activated protein kinase kinase 3	7
128	P46097	IDBG-null	synaptotagmin II	7
129	P50652	Fancc	Fanconi anemia, complementation group C	7
130	P70206	Ptxn1	plexin A1	7
131	P70217	Hoxb13	homeobox D13	7
132	P70700	Polr1b	polymerase (RNA) 1 polypeptide B	7
133	O61286	Tcf12	transcription factor 12	7
134	O61824	Adam12	a disintegrin and metallopeptidase domain 12 (meltrin alpha)	7
135	O6R891	Pop1r9b	protein phosphatase 1, regulatory subunit 9B	7
136	O7TP03	Shprh	SNF2 histone linker PHD RING helicase	7
137	O8BH3	Cdca8	cell division cycle associated 8	7
138	O8K320	Nod2	nucleotide-binding oligomerization domain containing 2	7
139	O922Y0	Dyrk3	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3	7
140	O924W6	IDBG-null	tripartite motif-containing 66	7
141	O99P17	Bap1	Brcal associated protein 1	7
142	O9DBR4	IDBG-null	amidol beta (A4), precursor protein-binding, family B, member 2	7
143	O9JIL4	Pdzk1	PDZ domain containing 1	7
144	O08856	El1	elongation factor RNA polymerase II	6
145	O88792	F11r	F11 receptor	6
146	O88904	Hipk1	homeodomain interacting protein kinase 1	6
147	P18052	Ptdra	protein tyrosine phosphatase, receptor type, A	6
148	P28229	Glc1	gap junction protein, gamma 1	6
149	P53702	Hccs	holocytochrome c synthetase	6
150	P68368	Tuba4a	tubulin, alpha 4A	6
151	P70188	Kifap3	kinesin-associated protein 3	6
152	O60751	Irf1r	insulin-like growth factor 1 receptor	6
153	O61233	IDBG-null	lymphocyte cytosolic protein 1	6
154	O61990	Pcbp2	poly(rC) binding protein 2	6
155	O6R3M4	Poli	polymerase (DNA directed), iota	6
156	O80XA6	Reps2	RALBP1 associated Eps domain containing protein 2	6
157	O92008	Ivns1abp	influenza virus NS1A binding protein	6
158	O921G8	Tubacp2	tubulin, gamma complex associated protein 2	6
159	O9D906	Ata7	autophagy-related 7 (yeast)	6
160	O9ESJ4	Nckipso	NCK interacting protein with SH3 domain	6
161	O9JY10	Pleckho1	pleckstrin homology domain containing, family O member 1	6
162	O9WTM5	Ruvb2	RuvB-like protein 2	6
163	O9Z191	Eya4	eyes absent 4 homolog (Drosophila)	6
164	O35495	Cdk14	cyclin-dependent kinase 14	5
165	O35737	Hnmp1	heterogeneous nuclear ribonucleoprotein H1	5
166	P13595	Ncam1	neural cell adhesion molecule 1	5
167	P16056	Met	met proto-oncogene	5
168	P33896	Ifnar1	interferon (alpha and beta) receptor 1	5
169	P46096	Syt1	synaptotagmin I	5
170	P50516	Atp6v1a	ATPase, H+ transporting, lysosomal V1 subunit A	5
171	P50538	Mxd1	MAX dimerization protein 1	5
172	P56480	Atp5b	ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit	5
173	P60843	Eif4a1	eukaryotic translation initiation factor 4A1	5
174	P69566	Ranbp9	RAN binding protein 9	5
175	P70424	Erbb2	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	5
176	O00993	Axl	AXL receptor tyrosine kinase	5
177	O05144	Rac2	RAS-related C3 botulinum substrate 2	5
178	O06180	Ptpn2	protein tyrosine phosphatase, non-receptor type 2	5
179	O08624	Hoxc4	homeobox C4	5
180	O2NL51	Gsk3a	glycogen synthase kinase 3 alpha	5
181	O60805	Mertk	c-mer proto-oncogene tyrosine kinase	5
182	O60837	Il2rb1	interleukin 12 receptor, beta 1	5
183	O61235	Sntb2	syntrophin, basic 2	5
184	O61880	Dmc1	DMC1 dosage suppressor of mck1 homolog, meiosis-specific homologous recombination (yeast)	5
185	O62219	Tqfb111	transforming growth factor beta 1 induced transcript 1	5
186	O6T264	Maml1	mastermind like 1 (Drosophila)	5
187	O811T9	IDBG-248652	disrupted in schizophrenia 1	5
188	O8BUR4	Dock1	dedicator of cytokinesis 1	5
189	O8CEC0	Nup88	nucleoporin 88	5
190	O8CF10	Nedd4l	neural precursor cell expressed, developmentally down-regulated gene 4-like	5
191	O8VIG1	Rest	RE1-silencing transcription factor	5
192	O8VJ16	Sfpq	splicing factor proline/alanine rich (polypyrimidine tract binding protein associated)	5
193	O91ZV6	Seno2	SUMO/sentrin specific peptidase 2	5
194	O9CU62	Smc1a	structural maintenance of chromosomes 1A	5
195	O9EQW6	Olig2	oligodendrocyte transcription factor 2	5
196	O9EQZ6	Rapgef4	Rap guanine nucleotide exchange factor (GEF) 4	5
197	O9ES64	Ush1c	Usher syndrome 1C homolog (human)	5
198	O9OZL0	Ripk3	receptor-interacting serine-threonine kinase 3	5
199	O9R0N4	Syt10	synaptotagmin X	5
200	O9R0O1	Syt4	synaptotagmin-like 4	5
201	O9WV01	Maq2	membrane associated guanylate kinase, WW and PDZ domain containing 2	5
202	O9Z1R2	Bcl6	BCL2-associated transcription factor 6	5
203	O55234	Psmb5	proteasome (prosome, macropain) subunit, beta type 5	4
204	O70372	Tert	telomerase reverse transcriptase	4
205	P11276	Fn1	fibronectin 1	4
206	P12382	Pfkf	phosphofruktokinase, liver, B-type	4
207	P18242	Ctsd	cathepsin D	4
208	P33174	Kif4	kinesin family member 4	4
209	P45448	Nr5a2	nuclear receptor subfamily 5, group A, member 2	4
210	P48301	Tead2	TEA domain family member 2	4
211	P50172	Hsd11b1	hydroxysteroid 11-beta dehydrogenase 1	4
212	P61264	Stx1b	syntaxin 1B	4
213	P62315	Snrpd1	small nuclear ribonucleoprotein D1	4
214	P70336	Rock2	Rho-associated coiled-coil containing protein kinase 2	4
215	O00493	Cpe	carboxypeptidase E	4
216	O3UJ09	Fam82a2	family with sequence similarity 82, member A2	4
217	O497V6	Bahd1	bromo adjacent homology domain containing 1	4
218	O60819	IDBG-null	interleukin 15 receptor, alpha chain	4
219	O60929	Mef2a	myocyte enhancer factor 2A	4
220	O61033	Tm6p	thymopoietin	4
221	O61045	Sim1	single-minded homolog 1 (Drosophila)	4
222	O61549	Emr1	EGF-like module containing, mucin-like, hormone receptor-like sequence 1	4
223	O61830	Mrc1	mannose receptor, C type 1	4
224	O62431	Arid3a	AT rich interactive domain 3A (BRIGHT-like)	4

225	O6KA07	Zzz3	zinc finger, ZZ domain containing 3	4
226	O80UE6	Wnk4	WNK lysine deficient protein kinase 4	4
227	O80X66	Btb10	BTB (POZ) domain containing 10	4
228	O8CFN5	Mef2c	myocyte enhancer factor 2C	4
229	O8VEK6	Ind3	inhibitor of growth family, member 3	4
230	O91VR5	Ddx1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1	4
231	O91YU6	Lzts2	leucine zipper, putative tumor suppressor 2	4
232	O91Z31	Ptbp2	poly(vimidine) tract binding protein 2	4
233	O9WUQ2	Preb	prolactin regulatory element binding	4
234	O9WVM3	Anapc7	anaphase promoting complex subunit 7	4
235	O9Z265	Chek2	CHK2 checkpoint homolog (S. pombe)	4
236	O08689	Mstn	myostatin	3
237	O35450	Fkbp1	FK506 binding protein-like	3
238	O35864	Cops5	COP9 (constitutive photomorphogenic) homolog, subunit 5 (Arabidopsis thaliana)	3
239	O88667	Rrad	Ras-related associated with diabetes	3
240	P18760	Ch1	cofilin 1, non-muscle	3
241	P19973	Lsp1	lymphocyte specific 1	3
242	P21237	IDBG-null	brain derived neurotrophic factor	3
243	P21841	Sftpc	surfactant associated protein C	3
244	P24063	Itaal	integrin alpha L	3
245	P30306	Cdc25b	cell division cycle 25 homolog B (S. pombe)	3
246	P30873	Sstr1	somatostatin receptor 1	3
247	P31695	Notch4	Notch gene homolog 4 (Drosophila)	3
248	P32043	Hoxc5	homeobox C5	3
249	P35441	Thbs1	thrombospondin 1	3
250	P38532	Hsf1	heat shock factor 1	3
251	P41047	Fas1	Fas ligand (TNF superfamily, member 6)	3
252	P48379	Rfx2	regulatory factor X, 2 (influences HLA class II expression)	3
253	P50404	Sftpd	surfactant associated protein D	3
254	P51432	Picb3	phospholipase C, beta 3	3
255	P55096	Abcd3	ATP-binding cassette, sub-family D (ALD), member 3	3
256	P55849	Dsc1	desmocollin 1	3
257	P60469	Ppfa3	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3	3
258	P60764	Rac3	RAS-related C3 botulinum substrate 3	3
259	P62737	Acta2	actin, alpha 2, smooth muscle, aorta	3
260	P63038	Hspd1	heat shock protein 1 (chaperonin)	3
261	P63082	Atp6v0c	ATPase, H+ transporting, lysosomal V0 subunit C	3
262	P68433	Hist1h3i	histone cluster 1, H3i	3
263	P70181	Pip5k1b	phosphatidylinositol-4-phosphate 5-kinase, type 1 beta	3
264	P70460	Vasp	vasodilator-stimulated phosphoprotein	3
265	P80317	Cct6a	chaperonin containing Tcd1, subunit 6a (zeta)	3
266	P83510	IDBG-null	TRAF2 and NCK interacting kinase	3
267	P97798	Neo1	neogenin	3
268	O06806	Tie1	tyrosine kinase with immunoglobulin-like and EGF-like domains 1	3
269	O08857	Cd36	CD36 antigen	3
270	O3UQW2	Fcho2	FCH domain only 2	3
271	O3UJ15	Rai3	ral quinane nucleotide dissociation stimulator-like 3	3
272	O5NCY0	Kdm6b	KDM1 lysine (K)-specific demethylase 6B	3
273	O5SWU9	Acaca	acetyl-Coenzyme A carboxylase alpha	3
274	O60750	Epha1	Eph receptor A1	3
275	O61072	Adam9	a disintegrin and metalloproteinase domain 9 (meltrin gamma)	3
276	O61627	Grid1	glutamate receptor, ionotropic, delta 1	3
277	O61645	Hr	hairless	3
278	O62240	Kdm5d	lysine (K)-specific demethylase 5D	3
279	O62296	Tead4	TEA domain family member 4	3
280	O62550	Pdzr3	PDZ domain containing RING finger 3	3
281	O6RPA0	Rcor3	REST corepressor 3	3
282	O6R5P0	Tlr11	toll-like receptor 11	3
283	O7TPD6	Raver2	ribonucleoprotein, PTB-binding 2	3
284	O80U63	Mfn2	mitofusin 2	3
285	O80XD1	Chn2	chimerin (chimaerin) 2	3
286	O88FU2	Hist3h2a	histone cluster 3, H2a	3
287	O8CG79	IDBG-null	transformation related protein 53 binding protein 2	3
288	O8K202	Polr1e	polymerase (RNA) I polypeptide E	3
289	O8K396	Mnd1	meiotic nuclear divisions 1 homolog (S. cerevisiae)	3
290	O8K381	Fbxo45	F-box protein 45	3
291	O8R307	Vps18	vacuolar protein sorting 18 (yeast)	3
292	O8VC19	Alas1	aminolevulinic acid synthase 1	3
293	O8VD04	Grip1	GRIP1 associated protein 1	3
294	O8VPD3	Mical1	microtubule associated monooxygenase, calponin and LIM domain containing 1	3
295	O8VHY0	Cspq4	chondroitin sulfate proteoglycan 4	3
296	O91V27	Mlph	melanophilin	3
297	O91WL8	Wwox	WW domain-containing oxidoreductase	3
298	O924N4	Sic12a6	solute carrier family 12, member 6	3
299	O9CQA5	Med4	mediator of RNA polymerase II transcription, subunit 4 homolog (yeast)	3
300	O9CY57	IDBG-null	RIKEN cDNA 250003M10 gene	3
301	O9CY58	Serp1	serpin1 mRNA binding protein 1	3
302	O9D071	Mms19	MMS19 (MET18 S. cerevisiae)	3
303	O9DB40	Med27	mediator complex subunit 27	3
304	O9DC40	Telo2	TEL2, telomere maintenance 2, homolog (S. cerevisiae)	3
305	O9ERH7	Hipk3	homeodomain interacting protein kinase 3	3
306	O9ERK0	Ripk4	receptor-interacting serine-threonine kinase 4	3
307	O9JIF7	Copb1	coatomer protein complex, subunit beta 1	3
308	O9JKY5	Hip1r	huntingtin interacting protein 1 related	3
309	O9JM96	Cdc42ep4	CDC42 effector protein (Rho GTPase binding) 4	3
310	O9QWV9	Ccnt1	cyclin T1	3
311	O9OX96	Sal12	sal-like 2 (Drosophila)	3
312	O9OXD8	Limd1	LIM domains containing 1	3
313	O9OXY1	Tjp3	tight junction protein 3	3
314	O9R1A8	Rfwd2	ring finger and WD repeat domain 2	3
315	O9R1Y5	Hic1	hypermethylated in cancer 1	3
316	O9WTK7	Stk11	serine/threonine kinase 11	3
317	O9WUA3	Pfkfb	phosphofructokinase, platelet	3
318	O9Z1J1	Tcf7l1	transcription factor 7-like 1 (T-cell specific, HMG box)	3
319	O9Z351	IDBG-null	potassium voltage-gated channel, subfamily O, member 2	3
320	AZAM29	Mllt3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3	2
321	BZRS91	Rrn3	RNA polymerase I transcription factor homolog (yeast)	2
322	O35181	Nrg3	neuregulin 3	2
323	O54992	Mapkapk5	MAP kinase-activated protein kinase 5	2
324	O55176	Pia1	praja1, RING-H2 motif containing	2
325	O70172	Pip4k2a	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	2
326	O70481	Ubr1	ubiquitin protein ligase E3 component n-recognin 1	2
327	O88544	Cops4	COP9 (constitutive photomorphogenic) homolog, subunit 4 (Arabidopsis thaliana)	2
328	O88623	Usp2	ubiquitin specific peptidase 2	2
329	P00860	Odc1	ornithine decarboxylase, structural 1	2
330	P03995	Gfap	glial fibrillary acidic protein	2
331	P08071	Ltf	lactoferrin	2
332	P0C056	H2afz	H2A histone family, member Z	2
333	P0C605	Prkq1	protein kinase, cGMP-dependent, type I	2
334	P14733	Lmbn1	lamin B1	2
335	P15331	Prph	peripherin	2
336	P15920	Atp6v0a2	ATPase, H+ transporting, lysosomal V0 subunit A2	2
337	P22935	Crabp2	cellular retinoic acid binding protein II	2
338	P27889	Hnf1b	HNF1B homeobox B	2
339	P28704	Rxrb	retinoid X receptor beta	2
340	P35123	Usp4	ubiquitin specific peptidase 4 (proto-oncogene)	2
341	P35585	Aplm1	adaptor-related protein complex AP-1, mu subunit 1	2
342	P40694	Iqhmbo2	immunoglobulin mu binding protein 2	2
343	P43247	Msh2	mutS homolog 2 (E. coli)	2

344	P43883	Plin2	perilipin 2	2
345	P48962	Slc25a4	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 4	2
346	P51906	Slc1a1	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1	2
347	P51944	Ccnf	cyclin F	2
348	P56671	Maz	MYC-associated zinc finger protein (purine-binding transcription factor)	2
349	P61375	Lhx5	LIM homeobox protein 5	2
350	P62482	Kcna2b2	potassium voltage-gated channel, shaker-related subfamily, beta member 2	2
351	P63115	Slc7a10	solute carrier family 7 (cationic amino acid transporter, v+ system), member 10	2
352	P70326	Tbx5	T-box 5	2
353	P70343	Casp4	caspase 4, apoptosis-related cysteine peptidase	2
354	P97386	Liq3	liqase III, DNA, ATP-dependent	2
355	O03719	Kcnd1	potassium voltage-gated channel, Shal-related family, member 1	2
356	O05AA6	Drp2	dystrophin related protein 2	2
357	O07139	IDBG-null	ect2 oncogene	2
358	O08048	Haf	hepatocyte growth factor	2
359	O37CH7	Cul4a	culin 4A	2
360	O3U133	Zfp746	zinc finger protein 746	2
361	O3U604	Pik3r6	phosphoinositide-3-kinase, regulatory subunit 6	2
362	O3UQU0	Brd9	bromodomain containing 9	2
363	O60596	Xrcc1	X-ray repair complementing defective repair in Chinese hamster cells 1	2
364	O60698	Ski	ski sarcoma viral oncogene homolog (avian)	2
365	O60700	Map3k12	mitogen-activated protein kinase kinase kinase 12	2
366	O60739	Baq1	BCL2-associated athanogene 1	2
367	O60996	Ppp2r5c	protein phosphatase 2, regulatory subunit B (B56), gamma isoform	2
368	O61098	Il18r1	interleukin 18 receptor 1	2
369	O61193	Rai2	rai quinone nucleotide dissociation stimulator-like 2	2
370	O61324	Arnt2	aryl hydrocarbon receptor nuclear translocator 2	2
371	O61330	Cntn2	contactin 2	2
372	O61526	Erbb3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	2
373	O64332	Syn2	synapsin II	2
374	O64378	IDBG-null	FK506 binding protein 5	2
375	O67F72	Bcl9l	B-cell CLL/lymphoma 9-like	2
376	O6DFV5	Helz	helicase with zinc finger domain	2
377	O6PGL7	D6Wsu116e	DNA segment, Chr 6, Wayne State University 116, expressed	2
378	O6ZQ08	Cnot1	CCR4-NOT transcription complex, subunit 1	2
379	O80VH0	BanK1	B-cell scaffold protein with ankyrin repeats 1	2
380	O81UJ3	Nfasc	neurofascin	2
381	O88HD7	Rod1	ROD1 regulator of differentiation 1 (S. pombe)	2
382	O8BZH4	Pozz	pozo transposable element with ZNF domain	2
383	O8C0C0	Zhx2	zinc fingers and homeoboxes 2	2
384	O8C0I4	Epc2	enhancer of polycomb homolog 2 (Drosophila)	2
385	O8CDM1	Atad2	ATPase family, AAA domain containing 2	2
386	O8CE00	Cdk1	cyclin-dependent kinase-like 1 (CDC2-related kinase)	2
387	O8CGC6	Rbm28	RNA binding motif protein 28	2
388	O8CGF6	Wdr47	WD repeat domain 47	2
389	O8K0L0	Asb2	ankyrin repeat and SOCS box-containing 2	2
390	O8K2B5	Fcho1	FCH1 domain only 1	2
391	O8K4K6	Mkl1	MKL (megakaryoblastic leukemia)/myocardin-like 1	2
392	O8R2K4	Taf6l	TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor	2
393	O8R2S9	Actr8	ARP8 actin-related protein 8 homolog (S. cerevisiae)	2
394	O8R4X3	Rbm12	RNA binding motif protein 12	2
395	O8VEL9	Rem2	rad and gem related GTP binding protein 2	2
396	O8VHH7	Adcy3	adenylate cyclase 3	2
397	O8VHR0	Pcdh18	protocadherin 18	2
398	O91W50	Csde1	cold shock domain containing E1, RNA binding	2
399	O99N20	Brms1	breast cancer metastasis-suppressor 1	2
400	O99N88	Ubain4	ubiquitin 4	2
401	O99P10	Ntm	neurotrimin	2
402	O9CX30	Yif1b	Yif1 interacting factor homolog B (S. cerevisiae)	2
403	O9CXF7	Chd1l	chromodomain helicase DNA binding protein 1-like	2
404	O9CZW5	Tom70a	translocase of outer mitochondrial membrane 70 homolog A (yeast)	2
405	O9CX22	Ccdc123	coiled-coil domain containing 123	2
406	O9D2R0	Aacs	acetoacetyl-CoA synthetase	2
407	O9D7G9	Mapk11p1	mitogen-activated protein kinase 1 interacting protein 1	2
408	O9D903	Ebna1bp2	EBNA1 binding protein 2	2
409	O9DBS9	IDBG-null	oxysterol binding protein-like 3	2
410	O9DC48	Cdc40	cell division cycle 40 homolog (yeast)	2
411	O9J174	Klhl1	kelch-like 1 (Drosophila)	2
412	O9JIG7	Ccdc22	coiled-coil domain containing 22	2
413	O9JK22	Lanc2	LanC (bacterial lantibiotic synthetase component C)-like 2	2
414	O9JMB8	Cntn6	contactin 6	2
415	O9R1R2	Trim3	tripartite motif-containing 3	2
416	O9WV18	Gabbr1	gamma-aminobutyric acid (GABA) B receptor, 1	2
417	O9Z0Y7	Irs4	insulin receptor substrate 4	2
418	O9Z0Z7	Klf5	Kruppel-like factor 5	2
419	O9Z103	IDBG-null	activity-dependent neuroprotective protein	2
420	O9Z1N7	Arid3b	AT rich interactive domain 3B (BRG1-like)	2
421	O9Z1T5	Deaf1	deformed epidermal autoregulatory factor 1 (Drosophila)	2
422	O9Z261	Cldn7	claudin 7	2
423	A2A791	Zmym4	zinc finger, MYM-type 4	1
424	A2AL36	Cep110	centrosomal protein 110	1
425	A2RSY1	4632411B12Rik	RIKEN cDNA 4632411B12 gene	1
426	O08677	Knq1	kininogen 1	1
427	O35177	Nedd9	neuronal precursor cell expressed, developmentally down-regulated gene 9	1
428	O54781	Srpk2	serine/arginine-rich protein specific kinase 2	1
429	O54967	IDBG-null	tyrosine kinase, non-receptor, 2	1
430	O55106	Strn	striatin, calmodulin binding protein	1
431	O70306	Tbx15	T-box 15	1
432	O70309	Itqb5	integrin beta 5	1
433	O88312	Aqr2	anterior gradient 2 (Xenopus laevis)	1
434	O88398	Avil	advillin	1
435	P00342	Ldhc	lactate dehydrogenase C	1
436	P08074	Cbr2	carbonyl reductase 2	1
437	P09922	Mx2	myxovirus (influenza virus) resistance 2	1
438	P10630	Eif4a2	eukaryotic translation initiation factor 4A2	1
439	P13020	Gsn	gelsolin	1
440	P16879	Fes	feline sarcoma oncogene	1
441	P18911	Rarq	retinoic acid receptor, gamma	1
442	P19096	Fasn	fatty acid synthase	1
443	P20239	Zp2	zona pellucida glycoprotein 2	1
444	P21550	Eno3	enolase 3, beta muscle	1
445	P26369	U2af2	U2 small nuclear ribonucleoprotein auxiliary factor (U2AF) 2	1
446	P26638	Sars	seryl-aminoacyl-tRNA synthetase	1
447	P37804	Taqln	transqualin	1
448	P40630	Tfam	transcription factor A, mitochondrial	1
449	P41230	Kdm5c	lysine (K)-specific demethylase 5C	1
450	P41242	IDBG-null	meakaryocyte-associated tyrosine kinase	1
451	P42209	IDBG-null	sepin 1	1
452	P47963	Rpl13	ribosomal protein L13	1
453	P48437	Prox1	prospero-related homeobox 1	1
454	P50247	Gm4737	predicted gene 4737	1
455	P50544	Acadvl	acyl-Coenzyme A dehydrogenase, very long chain	1
456	P51829	Adcy7	adenylate cyclase 7	1
457	P51881	Slc25a5	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5	1
458	P53347	Osm	oncostatin M	1
459	P56564	Slc1a3	solute carrier family 1 (glial high affinity glutamate transporter), member 3	1
460	P56695	Wfs1	Wolfram syndrome 1 homolog (human)	1
461	P58501	Cfcf1	GC-rich sequence DNA-binding factor 1	1
462	P59511	Adams20	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 20	1

463	P62812	Gabra1	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 1	1
464	P62889	Rpl30-ps8	ribosomal protein L30, pseudo gene 8	1
465	P63137	Gabbr2	gamma-aminobutyric acid (GABA) A receptor, subunit beta 2	1
466	P63143	Kcnab1	potassium voltage-gated channel, shaker-related subfamily, beta member 1	1
467	P63268	Acta2	actin, gamma 2, smooth muscle, enteric	1
468	P69744	Trpv5	transient receptor potential cation channel, subfamily V, member 5	1
469	P70298	Cux2	cut-like homeobox 2	1
470	P97326	Cdh6	cadherin 6	1
471	P97329	Kif20a	kinesin family member 20A	1
472	P97793	Alk	anaplastic lymphoma kinase	1
473	O02853	Mmp11	matrix metalloproteinase 11	1
474	O04735	Cdk16	cyclin-dependent kinase 16	1
475	O07797	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein	1
476	O08122	Tle3	transducin-like enhancer of split 3, homolog of Drosophila E(spl)	1
477	O08943	Ssrp1	structure specific recognition protein 1	1
478	O0PMG2	Mdaa1	MAM domain containing glycosylphosphatidylinositol anchor 1	1
479	O149F3	Gsp12	G1 to S phase transition 2	1
480	O2VPV4	Mlxip	MLX interacting protein	1
481	O3THK3	Gtf2f1	general transcription factor IIF, polypeptide 1	1
482	O3TX08	Trmt1	TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)	1
483	O3TX57	IDBG-null	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	1
484	O3TYD6	Lmtk2	lemur tyrosine kinase 2	1
485	O3U3T8	IDBG-null	WD repeat domain 62	1
486	O3U497	Cd300lb	CD300 antigen like family member B	1
487	O3UTJ2	Sorbs2	sorbin and SH3 domain containing 2	1
488	O58FA4	E2f8	E2F transcription factor 8	1
489	O60664	Lrrmp	lymphoid-restricted membrane protein	1
490	O61390	Cct6b	chaperonin containing Tcp1, subunit 6b (zeta)	1
491	O61626	Grik5	glutamate receptor, ionotropic, kainate 5 (gamma 2)	1
492	O61712	Dnaic1	DnaJ (Hsp40) homolog, subfamily C, member 1	1
493	O61762	Kcna5	potassium voltage-gated channel, shaker-related subfamily, member 5	1
494	O62314	Tqoln1	trans-qolqi network protein	1
495	O62415	Ppp1r13b	protein phosphatase 1, regulatory (inhibitor) subunit 13B	1
496	O62481	Vps72	vacuolar protein sorting 72 (yeast)	1
497	O64522	Hist2h2ab	histone cluster 2, H2ab	1
498	O64687	St8sia1	ST8 alpha-N-acetylneuraminidase alpha-2,8-sialyltransferase 1	1
499	O6A037	N4bp1	NEB4 binding protein 1	1
500	O6DTY7	Pfkfb4	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4	1
501	O6NVF4	Helb	helicase (DNA) B	1
502	O6PGN3	Dclk2	doublecortin-like kinase 2	1
503	O6URW6	Myh14	myosin, heavy polypeptide 14	1
504	O7TQHO	Atxn2l	ataxin 2-like	1
505	O7TS11	Plekhm1	pleckstrin homolog domain containing, family M (with RUN domain) member 1	1
506	O80TR4	Slit1	slit homolog 1 (Drosophila)	1
507	O80U78	Pum1	pumilio 1 (Drosophila)	1
508	O80V03	IDBG-null	aaRF domain containing kinase 5	1
509	O80V11	Trim56	tripartite motif-containing 56	1
510	O80X44	Zbtb24	zinc finger and BTB domain containing 24	1
511	O80XF5	I122ra2	interleukin 22 receptor, alpha 2	1
512	O81109	Pcyt1b	phosphate cytidylyltransferase 1, choline, beta isoform	1
513	O8BGH4	Reep1	receptor accessory protein 1	1
514	O8BH34	Sema3d	sema domain, immunoglobulin domain (Iq), short basic domain, secreted, (semaphorin) 3D	1
515	O8BH57	Wdr48	WD repeat domain 48	1
516	O8BIH0	Sap130	Sin3A associated protein	1
517	O8BJ58	Mdm2	Mdm2, transformed 3T3 cell double minute p53 binding protein	1
518	O8BL48	Unk	unlabeled homolog (Drosophila)	1
519	O8BM33	Shc2	SHC (Src homology 2 domain containing) transforming protein 2	1
520	O8BMG1	Atrip	ATR interacting protein	1
521	O8BO30	IDBG-null	RIKEN cDNA 2310014H01 gene	1
522	O8BTY2	Slc4a7	solute carrier family 4, sodium bicarbonate cotransporter, member 7	1
523	O8BV05	Ppme1	protein phosphatase methyltransferase 1	1
524	O8BX57	Pxk	PX domain containing serine/threonine kinase	1
525	O8BZ23	Wwp1	WW domain containing E3 ubiquitin protein ligase 1	1
526	O8C0D9	IDBG-null	centrosomal protein 68	1
527	O8C0J6	Ankrd58	ankyrin repeat domain 58	1
528	O8C954	A630007B06Rik	RIKEN cDNA A630007B06 gene	1
529	O8CD12	Fbxo43	F-box protein 43	1
530	O8CE46	Pus7l	pseudouridylyl synthase 7 homolog (S. cerevisiae)-like	1
531	O8CFW7	Cc2d2a	coiled-coil and C2 domain containing 2A	1
532	O8CGK3	Lonp1	lon peptidase 1, mitochondrial	1
533	O8CGK5	I128ra	interleukin 28 receptor alpha	1
534	O8CGN5	Plin1	perilipin 1	1
535	O8CIZ8	Vwf	Von Willebrand factor homolog	1
536	O8CJ91	Cd209b	CD209b antigen	1
537	O8K297	Git25d1	glycosyltransferase 25 domain containing 1	1
538	O8K2B3	Sdha	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	1
539	O8K2K6	Arcf1	ARFAP with FG repeats 1	1
540	O8K327	Zfp828	zinc finger protein 828	1
541	O8K371	Amot2	angiomin-like 2	1
542	O8K314	Myrip	myosin VIIA and Rab interacting protein	1
543	O8K329	Pom121	nuclear pore membrane protein 121	1
544	O8K424	Trpv3	transient receptor potential cation channel, subfamily V, member 3	1
545	O8R1A4	IDBG-null	dedicator of cytokinesis 7	1
546	O8R1F1	Fam129b	family with sequence similarity 129, member B	1
547	O8R570	Snap47	synaptosomal-associated protein, 47	1
548	O8VC03	Nrbf2	nuclear receptor binding factor 2	1
549	O8VD31	Tapbp1	TAP binding protein-like	1
550	O8VEB1	Grk5	G protein-coupled receptor kinase 5	1
551	O8VHW2	Cacnq8	calcium channel, voltage-dependent, gamma subunit 8	1
552	O91V92	Acly	ATP citrate lyase	1
553	O91X43	Sh3d19	SH3 domain protein D19	1
554	O91XU0	Wrmip1	Werner helicase interacting protein 1	1
555	O91Y44	Brdt	bromodomain, testis-specific	1
556	O920A9	Fcrla	Fc receptor-like A	1
557	O921M4	Golga2	golqi autoantigen, golqin subfamily a, 2	1
558	O922W5	Pycr1	pyrroline-5-carboxylate reductase 1	1
559	O925O8	IDBG-null	dachshund 2 (Drosophila)	1
560	O99246	Cacna1d	calcium channel, voltage-dependent, L type, alpha 1D subunit	1
561	O99JH7	C1stn3	calsynenin 3	1
562	O99K30	Eps8l2	EPS8-like 2	1
563	O99KG3	IDBG-null	RNA binding motif protein 10	1
564	O99KY4	Gak	cyclin G associated kinase	1
565	O99LB2	Dhrs4	dehydrogenase/reductase (SDR family) member 4	1
566	O99P47	Cntnap4	contactin associated protein-like 4	1
567	O99P88	Nup155	nucleoporin 155	1
568	O9CQ33	Lztr1	leucine zipper-like transcriptional regulator, 1	1
569	O9CR68	Ucrof1	ubiquitin-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	1
570	O9CS74	Ecd	ecdysoneless homolog (Drosophila)	1
571	O9CW79	Golqa1	golqi autoantigen, golqin subfamily a, 1	1
572	O9CWF6	Bbs2	Bardet-Biedl syndrome 2 (human)	1
573	O9CW99	Ddx47	DEAD (Asp-Glu-Ala-Asp) box polypeptide 47	1
574	O9CXF0	Kynu	kynureninase (L-kynurenine hydrolase)	1
575	O9CZ44	Nsf1c	NSFL1 (p97) cofactor (p47)	1
576	O9CZW4	IDBG-null	acyl-CoA synthetase long-chain family member 3	1
577	O9D1R9	Rpl34	ribosomal protein L34	1
578	O9D2E2	Toe1	target of EGFR, member 1 (nuclear)	1
579	O9D6J4	Necab3	N-terminal EF-hand calcium binding protein 3	1
580	O9D7D2	Serpin9	serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antitrypsin, antitrypsin), member 9	1
581	O9DBR1	Xrn2	5'-3' exoribonuclease 2	1

582	O9DC70	Ndufs7	NADH dehydrogenase (ubiquinone) Fe-S protein 7	1
583	O9EQ61	Pes1	pescadillo homolog 1, containing BRCT domain (zebrafish)	1
584	O9EH2	Erap1	endoplasmic reticulum aminopeptidase 1	1
585	O9EYO0	Ern1	endoplasmic reticulum (ER) to nucleus signalling 1	1
586	O9ES30	C1qtnf3	C1q and tumor necrosis factor related protein 3	1
587	O9ES83	Bves	blood vessel epicardial substance	1
588	O9ESG9	Pkmv1	protein kinase, membrane associated tyrosine/threonine 1	1
589	O9JIP7	Slc15a1	solute carrier family 15 (oligopeptide transporter), member 1	1
590	O9JIS7	IDBG-null	calcium channel, voltage-dependent, alpha 1F subunit	1
591	O9JU8	Sh3bpl	SH3-binding domain glutamic acid-rich protein like	1
592	O9JK42	Pdk2	pyruvate dehydrogenase kinase, isoenzyme 2	1
593	O9JL70	Fanca	Fanconi anemia, complementation group A	1
594	O9JM93	Arl6ip4	ADP-ribosylation factor-like 6 interacting protein 4	1
595	O9QY40	Plexb3	plexin B3	1
596	O9OZC1	Trpc3	transient receptor potential cation channel, subfamily C, member 3	1
597	O9R0M0	Celsr2	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)	1
598	O9R0N7	Svt7	synaptotagmin VII	1
599	O9WV31	Arc	activity regulated cytoskeletal-associated protein	1
600	O9WVP9	Mx2	myxovirus (influenza virus) resistance 2	1
601	O9WVR4	Fxr2	fragile X mental retardation, autosomal homolog 2	1
602	O9Z0W3	Nup160	nucleoporin 160	1
603	O9Z125	Creb3l1	cAMP responsive element binding protein 3-like 1	1
604	O9Z139	Ror1	receptor tyrosine kinase-like orphan receptor 1	1
605	O9Z1G3	Atp6v1c1	ATPase, H+ transporting, lysosomal V1 subunit C1	1
606	O9Z1K5	Arl1	ariadne ubiquitin-conjugating enzyme E2 binding protein homolog 1 (Drosophila)	1
607	O9Z1M8	Ik	IK cytokine	1
608	O9Z2W8	Gria4	glutamate receptor, ionotropic, AMPA4 (alpha 4)	1
609	A1A586	Tbc1d25	TBC1 domain family, member 25	0
610	A2A699	Fam171a2	family with sequence similarity 171, member A2	0
611	A2A6T1	Cdr2l	cerebellar degeneration-related protein 2-like	0
612	A2A891	Camta1	calmodulin binding transcription activator 1	0
613	A2AC93	Dnaic2	dynein, axonemal, intermediate chain 2	0
614	A2ACJ2	Z310003H01Rik	RIKEN cDNA Z310003H01 gene	0
615	A2AFR3	Frmpl4	FERM and PDZ domain containing 4	0
616	A2AFS3	Z330417C22Rik	RIKEN cDNA Z330417C22 gene	0
617	A2AHL1	Ano3	anoctamin 3	0
618	A2AI08	Tpm	taperin	0
619	A2AJA7	Mamdc4	MAM domain containing 4	0
620	A2AJB7	Lcn5	lipocalin 5	0
621	A2AKY4	Zfp804a	zinc finger protein 804A	0
622	A2ALK8	Ptpn3	protein tyrosine phosphatase, non-receptor type 3	0
623	A2APV2	Fmnl2	formin-like 2	0
624	A2AR50	Ralaps1	Ral GEF with PH domain and SH3 binding motif 1	0
625	A2ATU0	Dhtkd1	dehydrogenase E1 and transketolase domain containing 1	0
626	A2AVA0	Svep1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1	0
627	A2AVJ5	Prr5l	proline rich 5 like	0
628	A2AWP8	Arhgef10l	Rho guanine nucleotide exchange factor (GEF) 10-like	0
629	A2RS01	Glb1l3	galactosidase, beta 1 like 3	0
630	A2RTF1	Catsperb	cation channel, sperm-associated, beta	0
631	A3FIN4	Atp8b5	ATPase, class I, type 8B, member 5	0
632	A4Q9E4	Ttl2	tubulin tyrosine liase-like family, member 2	0
633	A4Q9F0	Ttl7	tubulin tyrosine liase-like family, member 7	0
634	A4Q9F1	Ttl8	tubulin tyrosine liase-like family, member 8	0
635	A6H584	Col6a5	collagen, type VI, alpha 5	0
636	A6H603	Nwd1	NACHT and WD repeat domain containing 1	0
637	A6H694	Lrrc63	leucine rich repeat containing 63	0
638	A6H6A4	Lrrc64	leucine-rich repeats and IQ motif containing 4	0
639	A6H6A9	Rabgap1l	RAB GTPase activating protein 1-like	0
640	A6H6E9	Ttc23l	tetratricopeptide repeat domain 23-like	0
641	A7E1Z1	Tmem215	transmembrane protein 215	0
642	A7L9Z8	IDBG-null	ATPase, Ca++ transporting, type 2C, member 2	0
643	B2RR83	Ythdc2	YTH domain containing 2	0
644	B2RRE4	Zfp518b	zinc finger protein 518B	0
645	B2RXC1	D030016E14Rik	RIKEN cDNA D030016E14 gene	0
646	B2RY04	Dock5	dedicator of cytokinesis 5	0
647	B9EKX1	Z3110082D06Rik	RIKEN cDNA Z3110082D06 gene	0
648	C6K899	Catsperc2	cation channel, sperm-associated, gamma 2	0
649	O08528	Hk2	hexokinase 2	0
650	O08532	Cacna2d1	calcium channel, voltage-dependent, alpha2/delta subunit 1	0
651	O08582	Gtpbp1	GTP binding protein 1	0
652	O08762	Prss12	protease, serine, 12 neurotrypsin (motopsin)	0
653	O08917	Flot1	flotillin 1	0
654	O35219	Kcnh2	potassium voltage-gated channel, subfamily H (eag-related), member 2	0
655	O35655	Ppef1	protein phosphatase with EF hand calcium-binding domain 1	0
656	O35690	Phox2b	paired-like homeobox 2b	0
657	O35710	Ccrm4l	CCR4 carbon catabolite repression 4-like (S. cerevisiae)	0
658	O35892	Spl100	leucine antigen Spl100	0
659	O35945	Aldehyde1a7	aldehyde dehydrogenase family 1, subfamily A7	0
660	O54827	Atp10a	ATPase, class V, type 10A	0
661	O54931	AF064781	A kinase (PRKA) anchor protein 2	0
662	O55029	Copb2	coatamer protein complex, subunit beta 2 (beta prime)	0
663	O55189	Ambn	ameloblastin	0
664	O70167	Plk3c2q	phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide	0
665	O70291	Grik4	G protein-coupled receptor kinase 4	0
666	O70342	Npy5r	neuropeptide Y receptor Y5	0
667	O70355	Etnl2	butyrophilin-like 2	0
668	O70362	Gpld1	glycosylphosphatidylinositol specific phospholipase D1	0
669	O70576	Staq3	stromal antigen 3	0
670	O88199	Chst3	carbohydrate (chondroitin 6/keratan) sulfotransferase 3	0
671	O88533	Ddc	dopa decarboxylase	0
672	O88622	Parq	poly (ADP-ribose) glycohydrolase	0
673	O88630	Gosr1	golgi SNAP receptor complex member 1	0
674	O88693	Uqcq	UDP-glucose ceramide glucosyltransferase	0
675	O88735	Mtap7	microtubule-associated protein 7	0
676	O88842	Fcd3	FYVE, RhoGEF and PH domain containing 3	0
677	O88844	Idh1	isocitrate dehydrogenase 1 (NADP+), soluble	0
678	O88855	Ltb4r1	leukotriene B4 receptor 1	0
679	O88866	Hunk	hormonally upregulated Neu-associated kinase	0
680	O88878	Zfand5	zinc finger, AN1-type domain 5	0
681	O88995	Nfkbil1	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 1	0
682	O89001	Cpd	carboxypeptidase D	0
683	O89103	Cd93	CD93 antigen	0
684	P01942	Hba-a2	hemoglobin alpha, adult chain 2	0
685	P04186	Cfb	complement factor B	0
686	P05202	Got2	glutamate oxaloacetate transaminase 2, mitochondrial	0
687	P05214	Tuba3b	tubulin, alpha 3B	0
688	P06330	Gm16717	predicted gene, 16717	0
689	P07742	Rrm1	ribonucleotide reductase M1	0
690	P08249	Mdh2	malate dehydrogenase 2, NAD (mitochondrial)	0
691	P09838	Dnnt	deoxynucleotidyltransferase, terminal	0
692	P0C192	Lrrc4b	leucine rich repeat containing 4B	0
693	P0C511	Gpr25	G protein-coupled receptor 25	0
694	P0C776	Atxn1l	ataxin 1-like	0
695	P10853	Hist1h2bf	histone cluster 1, H2bf	0
696	P11031	Sub1	SUB1 homolog (S. cerevisiae)	0
697	P11088	Fla	flaqaarin	0
698	P11725	Otc	ornithine transcarbamylase	0
699	P13412	Tnni2	troponin I, skeletal, fast 2	0
700	P14685	Psmd3	proteasome (prosome, macropain) 26S subunit, non-ATPase, 3	0

701	P15388	Kcnc1	potassium voltage gated channel, Shaw-related subfamily, member 1	0
702	P15539	Cyp11b2	cytochrome P450, family 11, subfamily b, polypeptide 2	0
703	P15656	Fgf5	fibroblast growth factor 5	0
704	P16332	Mut	methylenetetrahydrofolate-Coenzym A mutase	0
705	P16406	Enpep	glutamyl aminopeptidase	0
706	P17183	Eno2	enolase 2, gamma neuronal	0
707	P18826	Phka1	phosphorylase kinase alpha 1	0
708	P20852	Cyp2a5	cytochrome P450, family 2, subfamily a, polypeptide 5	0
709	P21447	IDBG-null	ATP-binding cassette, sub-family B (MDR/TAP), member 1A	0
710	P21956	Mfge8	milk fat globule-EGF factor 8 protein	0
711	P23440	Pde6b	phosphodiesterase 6B, cGMP, rod receptor, beta polypeptide	0
712	P23607	Zfa	zinc finger protein, autosomal	0
713	P23738	Hdc	histidine decarboxylase	0
714	P24547	Impdh2	inosine 5'-phosphate dehydrogenase 2	0
715	P25318	Col8a2	collagen, type VIII, alpha 2	0
716	P25444	Rps2	ribosomal protein S2	0
717	P27664	Pde6a	phosphodiesterase 6A, cGMP-specific, rod, alpha	0
718	P29788	Vtn	vitronectin	0
719	P30677	Gna14	guanine nucleotide binding protein, alpha 14	0
720	P30730	Lhcar	luteinizing hormone/choriogonadotropin receptor	0
721	P35375	Ptger1	prostaglandin E receptor 1 (subtype EP1)	0
722	P39061	Col18a1	collagen, type XVIII, alpha 1	0
723	P40142	Tkt	transketolase	0
724	P41438	IDBG-null	solute carrier family 19 (sodium/hydrogen exchanger), member 1	0
725	P42125	Eci1	enoyl-Coenzym A delta isomerase 1	0
726	P46978	IDBG-null	STT3, subunit of the oligosaccharyltransferase complex, homolog A (S. cerevisiae)	0
727	P47338	Aldh2	aldehyde dehydrogenase 2, mitochondrial	0
728	P47740	Aldh3a2	aldehyde dehydrogenase family 3, subfamily A2	0
729	P47877	Igfbp2	insulin-like growth factor binding protein 2	0
730	P48722	Hspa4l	heat shock protein 4 like	0
731	P48964	Cdc25a	cell division cycle 25 homolog A (S. pombe)	0
732	P49135	Ercc3	excision repair cross-complementing rodent repair deficiency, complementation group 3	0
733	P49222	Epb4.2	erythrocyte protein band 4.2	0
734	P49749	Evx2	even skipped homeotic gene 2 homolog	0
735	P51410	Rpl9-ps4	ribosomal protein L9, pseudo gene 4	0
736	P52785	Gucy2e	guanylate cyclase 2e	0
737	P52787	Gif	gastric intrinsic factor	0
738	P52950	Dbx1	developing brain homeobox 1	0
739	P53026	Rpl10a	ribosomal protein L10A	0
740	P53657	Pklr	pyruvate kinase liver and red blood cell	0
741	P53783	Sox3	SRY-box containing gene 3	0
742	P53784	Sox3	SRY-box containing gene 3	0
743	P54279	Pms2	postmeiotic segregation increased 2 (S. cerevisiae)	0
744	P54285	Cacnb3	calcium channel, voltage-dependent, beta 3 subunit	0
745	P54923	Adprh	ADP-ribosylarginine hydrolase	0
746	P55065	Pltp	phospholipid transfer protein	0
747	P55066	Ncan	neurocan	0
748	P55292	Dsc2	desmocollin 2	0
749	P56183	Rrp1	ribosomal RNA processing 1 homolog (S. cerevisiae)	0
750	P56375	IDBG-null	acylphosphatase 2, muscle type	0
751	P56974	IDBG-null	neuregulin 2	0
752	P58021	Tm9sf2	transmembrane 9 superfamily member 2	0
753	P58406	Hrh3	histamine receptor H3	0
754	P58545	Btdb3	BTB (POZ) domain containing 3	0
755	P59017	Bcl2l13	BCL2-like 13 (apoptosis facilitator)	0
756	P59110	Senp1	SUMO1/sentrin specific peptidase 1	0
757	P59530	Tas2r130	taste receptor, type 2, member 130	0
758	P59644	Inpp5f1	inositol polyphosphate 5-phosphatase J	0
759	P59729	Rin3	Ras and Rab interactor 3	0
760	P59900	Emilin3	elastin microfibril interfacer 3	0
761	P60824	Cirbp	cold inducible RNA binding protein	0
762	P61329	Fgf12	fibroblast growth factor 12	0
763	P61460	Depdc5	DEP domain containing 5	0
764	P62204	Calm3	calmodulin 3	0
765	P62806	Hist2h4	histone cluster 2, H4	0
766	P62932	Fbxo40	F-box protein 40	0
767	P63525	Tmprss9	transmembrane protease, serine 9	0
768	P70121	Zhx1	zinc fingers and homeoboxes 1	0
769	P70158	Smpd13a	sphingomyelin phosphodiesterase, acid-like 3A	0
770	P70166	Cpeb1	cytoplasmic polyadenylation element binding protein 1	0
771	P70170	Abcc9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	0
772	P70174	IDBG-null	histamine receptor H1	0
773	P70193	Lriq1	leucine-rich repeats and immunoglobulin-like domains 1	0
774	P70261	X99384	cDNA sequence X99384	0
775	P70313	Nos3	nitric oxide synthase 3, endothelial cell	0
776	P70412	Cuzo1	CUB and zona pellucida-like domains 1	0
777	P70423	Slc7a3	solute carrier family 7 (cationic amino acid transporter, y+ system), member 3	0
778	P83093	Stim2	stromal interaction molecule 2	0
779	P84228	Hist1h3c	histone cluster 1, H3c	0
780	P84309	Adcy5	adenylate cyclase 5	0
781	P85442	Voll3	vestigial like 3 (Drosophila)	0
782	P97306	Stac	src homolog 3 (SH3) and cysteine rich domain	0
783	P97324	G6pd2	glucose-6-phosphate dehydrogenase 2	0
784	P97325	St3gal3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3	0
785	P97371	Psmc1	proteasome (prosome, macropain) 28 subunit, alpha	0
786	P97460	Npas2	neuronal PAS domain protein 2	0
787	P97742	Cpt1a	carnitine palmitoyltransferase 1a, liver	0
788	P97819	Pla2g6	phospholipase A2, group VI	0
789	P98197	Atp11a	ATPase, class VI, type 11A	0
790	P98199	Atp8b2	ATPase, class I, type 8B, member 2	0
791	P98200	Atp8a2	ATPase, aminophospholipid transporter-like, class I, type 8A, member 2	0
792	O01965	Lv9	lymphocyte antigen 9	0
793	O02152	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B	0
794	O02780	Nfia	nuclear factor I/A	0
795	O03401	Crisp1	cysteine-rich secretory protein 1	0
796	O03517	Scq2	secretogranin II	0
797	O03717	Kcnc1	potassium voltage gated channel, Shaw-related subfamily, member 1	0
798	O04857	Col6a1	collagen, type VI, alpha 1	0
799	O05722	Col9a1	collagen, type IX, alpha 1	0
800	O05910	Adam8	a disintegrin and metalloproteinase domain 8	0
801	O05915	Gch1	GTP cyclohydrolase 1	0
802	O05A36	Mex3c	mex3 homolog C (C. elegans)	0
803	O05D44	Eif5b	eukaryotic translation initiation factor 5B	0
804	O07409	Cntn3	contactin 3	0
805	O09M05	Aqbl1	ATP/GTP binding protein-like 1	0
806	O0KK55	Kndc1	kinase non-catalytic C-lobe domain (KIND) containing 1	0
807	O0KK59	Unc79	unc-79 homolog (C. elegans)	0
808	O0P5X5	Zbx	zinc finger, B-box domain containing	0
809	O0VBV7	AK129341	cDNA sequence AK129341	0
810	O0VND7	Rundc1	RUN domain containing 1	0
811	O0VE82	Cpne7	copine VII	0
812	O0VGM9	Rtel1	regulator of telomere elongation helicase 1	0
813	O149B8	Z310042D19Rik	RIKEN cDNA Z310042D19 gene	0
814	O149L6	Dnaib14	DnaJ (Hsp40) homolog, subfamily B, member 14	0
815	O149M0	Clec12b	C-type lectin domain family 12, member B	0
816	O14AT2	Tex11	testis expressed gene 11	0
817	O14B89	Map6d1	MAP6 domain containing 1	0
818	O14CH0	Fam171b	family with sequence similarity 171, member B	0
819	O14DH7	Acsc3	acyl-CoA synthetase short-chain family member 3	0

820	O14DL0	Ubalnl	ubiquilin-like	0
821	O1EG27	Myc3b	myosin IIIb	0
822	O2EG98	Pkd1l3	polycystic kidney disease 1 like 3	0
823	O2EY15	Prtq	protoenin homolog (Gallus gallus)	0
824	O2M3X8	Phactr1	phosphatase and actin regulator 1	0
825	O2TJ95	Rspo3	R-spondin 3 homolog (Xenopus laevis)	0
826	O2VQ04	Arnl12	aryl hydrocarbon receptor nuclear translocator-like 2	0
827	O2XU92	Acsbq2	acyl-CoA synthetase bubbleum family member 2	0
828	O32Q92	Acof6	acyl-CoA thioesterase 6	0
829	O3TDD9	IDBG-null	KLR40 motif containing 1	0
830	O3TIU4	Pde12	phosphodiesterase 12	0
831	O3TJM4	Cenpt	centromere protein T	0
832	O3TNH5	Fam172a	family with sequence similarity 172, member A	0
833	O3TRR0	Mtap9	microtubule-associated protein 9	0
834	O3TTE0	Adam5	a disintegrin and metallopeptidase domain 5	0
835	O3TXU5	Dhps	deoxyhypusine synthase	0
836	O3TY60	Fam131b	family with sequence similarity 131, member B	0
837	O3TY86	Alfm3	apoptosis-inducing factor, mitochondrion-associated 3	0
838	O3TYS2	BC017643	cDNA sequence BC017643	0
839	O3TZX3	Slc25a33	solute carrier family 25, member 33	0
840	O3TZZ7	Esvt2	extended synaptotagmin-like protein 2	0
841	O3U0S6	Rasip1	Ras interacting protein 1	0
842	O3U1D9	1700029J07Rik	RIKEN cDNA 1700029J07 gene	0
843	O3U1V8	Map3k9	mitogen-activated protein kinase kinase kinase 9	0
844	O3U285	Lcorl	ligand dependent nuclear receptor corepressor-like	0
845	O3U2E2	Zmvm5	zinc finger, MYM-type 5	0
846	O3U2J3	Fam150a2	family with sequence similarity 160, member A2	0
847	O3U2J5	1700106N22Rik	RIKEN cDNA 1700106N22 gene	0
848	O3U5C8	Arhgef16	Rho guanine nucleotide exchange factor (GEF) 16	0
849	O3U962	Col5a2	collagen, type V, alpha 2	0
850	O3U9N9	Slc16a10	solute carrier family 16 (monocarboxylic acid transporters), member 10	0
851	O3UC01	Foxk2	forkhead box K2	0
852	O3UEB3	Puf60	poly-U binding splicing factor 60	0
853	O3UEG6	Aqxt2	alanine-glyoxylate aminotransferase 2	0
854	O3UH53	Sdk1	sidekick homolog 1 (chicken)	0
855	O3UH66	Wnk2	WNK lysine deficient protein kinase 2	0
856	O3UHJ0	Ask1	AP2 associated kinase 1	0
857	O3UHK3	Greb1	gene regulated by estrogen in breast cancer protein	0
858	O3UHK6	IDBG-null	odd Oz/ten-m homolog 4 (Drosophila)	0
859	O3UHX2	Pdap1	PDGFA associated protein 1	0
860	O3UHZ5	Lmod2	leiomodulin 2 (cardiac)	0
861	O3UJP5	2610301B20Rik	RIKEN cDNA 2610301B20 gene	0
862	O3UL97	Atf7ip2	activating transcription factor 7 interacting protein 2	0
863	O3ULM6	Usp1	ubiquitin specific peptidase like 1	0
864	O3ULW6	Ccdc33	coiled-coil domain containing 33	0
865	O3UME2	6030446N20Rik	RIKEN cDNA 6030446N20 gene	0
866	O3UMM4	Cdk10	cyclin-dependent kinase 10	0
867	O3UPR7	Tmem102	transmembrane protein 102	0
868	O3UQ22	Ntn5	netrin 5	0
869	O3UR50	Vwa5b2	von Willebrand factor A domain containing 5B2	0
870	O3URF8	Kctd21	potassium channel tetramerisation domain containing 21	0
871	O3URQ0	Tex10	testis expressed gene 10	0
872	O3UTO7	Prdm10	PR domain containing 10	0
873	O3UUF8	Ankrd34b	ankyrin repeat domain 34B	0
874	O3UU07	Pqap1	post-GPI attachment to proteins 1	0
875	O3UWM4	Jhdm1d	jumonji C domain-containing histone demethylase 1 homolog D (S. cerevisiae)	0
876	O3UX52	Ccdc114	coiled-coil domain containing 114	0
877	O3UXL4	Plk1s1	polo-like kinase 1 substrate 1	0
878	O3UZ18	Nara2	NMDA receptor-regulated gene 2	0
879	O3V037	Gm136	predicted gene 136	0
880	O3V0C5	Usp48	ubiquitin specific peptidase 48	0
881	O3V0G7	Garnl3	GTPase activating RANGAP domain-like 3	0
882	O3V172	Sel1l2	sel-1 suppressor of lin-12-like 2 (C. elegans)	0
883	O3V1D3	Ampd1	adenosine monophosphate deaminase 1	0
884	O3V1D5	Pnpla1	patatin-like phospholipase domain containing 1	0
885	O3V384	Lace1	lactation elevated 1	0
886	O3V3K7	Ccm7	glucosaminyl (N-acetyl) transferase family member 7	0
887	O3V3R1	IDBG-null	methylene tetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	0
888	O3ZN08	2810453I06Rik	RIKEN cDNA 2810453I06 gene	0
889	O4FZ07	Plk5	polo-like kinase 5 (Drosophila)	0
890	O4FZF3	Ddx49	DEAD (Asp-Glu-Ala-Asp) box polypeptide 49	0
891	O4FZG9	Ndufa4l2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-like 2	0
892	O4LDD4	Arap1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	0
893	O4VAA7	Sinx33	sorting nexin 33	0
894	O501J7	Phactr4	phosphatase and actin regulator 4	0
895	O505D9	Trim67	tripartite motif-containing 67	0
896	O505G8	Zfp827	zinc finger protein 827	0
897	O505K2	Fam160a1	family with sequence similarity 160, member A1	0
898	O50L42	Pla2q4e	phospholipase A2, group IVE	0
899	O50L43	Pla2q4d	phospholipase A2, group IVD	0
900	O52KE7	Ccnl1	cyclin L1	0
901	O52KR2	Lriq2	leucine-rich repeats and immunoglobulin-like domains 2	0
902	O562E2	Kctd19	potassium channel tetramerisation domain containing 19	0
903	O5BL07	Pex1	peroxisomal biogenesis factor 1	0
904	O5DTI8	Esvt3	extended synaptotagmin-like protein 3	0
905	O5DTJ9	Mypn	myopalladin	0
906	O5DTK1	Chsy3	chondroitin sulfate synthase 3	0
907	O5DTT8	Pnma5	paraneoplastic antigen family 5	0
908	O5DTZ0	Nynrin	NYN domain and retroviral integrase containing	0
909	O5DU00	Dcdc2a	doublecortin domain containing 2a	0
910	O5DU05	Cep164	centrosomal protein 164	0
911	O5DU09	Zfp652	zinc finger protein 652	0
912	O5DU56	Nlrc3	NLR family, CARD domain containing 3	0
913	O5EBP3	Armc5	armadillo repeat containing 5	0
914	O5F2E7	Nuflp2	nuclear fragile X mental retardation protein interacting protein 2	0
915	O5F2E8	Taok1	TAO kinase 1	0
916	O5FWI2	Scfr	secretin receptor	0
917	O5GH64	Xkr7	X Kell blood group precursor related family member 7 homolog	0
918	O5H8B9	Frem3	Fras1 related extracellular matrix protein 3	0
919	O5HZJ0	Drosha	drosha, ribonuclease type III	0
920	O5I043	Usp28	ubiquitin specific peptidase 28	0
921	O5M9N4	Plqh	phosphatidylinositol glycan anchor biosynthesis, class H	0
922	O5NCH9	Grm6	glutamate receptor, metabotropic 6	0
923	O5NCX5	Neur14	neuronalized homolog 4 (Drosophila)	0
924	O5PR68	Ccdc46	coiled-coil domain containing 46	0
925	O5RI75	Rasef	RAS and EF hand domain containing	0
926	O5RKZ7	Mocs1	molybdenum cofactor synthesis 1	0
927	O5SDA5	Gucy2f	guanylate cyclase 2f	0
928	O5SFM8	Rbm27	RNA binding motif protein 27	0
929	O5SPW0	Vps54	vacuolar protein sorting 54 (yeast)	0
930	O5SPX1	Ccdc157	coiled-coil domain containing 157	0
931	O5SOX6	Cyfp2	cytoplasmic FMR1 interacting protein 2	0
932	O5SS91	IDBG-null	Sad1 and UNC84 domain containing 3	0
933	O5SSZ7	Znrf3	zinc and ring finger 3	0
934	O5SU45	Mvos1a	myosin 1G	0
935	O5SUV1	Rsad1	radical S-adenosyl methionine domain containing 1	0
936	O5SUV2	Mycbpap	MYCBP associated protein	0
937	O5SW25	Pom121i2	POM121 membrane glycoprotein-like 2 (rat)	0
938	O5SW75	Ssh2	slingshot homolog 2 (Drosophila)	0

939	O55XA9	Wwc1	WW, C2 and coiled-coil domain containing 1	0
940	O5U4C9	Dyrk2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2	0
941	O5XF90	Atp13a4	ATPase type 13A4	0
942	O5Y4Y6	Gsdma3	gasdermin A3	0
943	O60604	Scin	scinderin	0
944	O60764	Mkrn3	makorin, ring finger protein, 3	0
945	O60846	Tnfrsf8	tumor necrosis factor receptor superfamily, member 8	0
946	O61017	Gnat2	guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 2	0
947	O61035	Hars	histidyl-tRNA synthetase	0
948	O61087	Lamb3	laminin, beta 3	0
949	O61151	Pop2r5e	protein phosphatase 2, regulatory subunit B (B56), epsilon isoform	0
950	O61161	Map4k2	mitogen-activated protein kinase kinase kinase kinase 2	0
951	O61183	IDBG-null	poly (A) polymerase alpha	0
952	O61194	Pik3c2a	phosphatidylinositol 3-kinase, C2 domain containing, alpha polypeptide	0
953	O61282	Acan	aggrecan	0
954	O61474	Msi1	Musashi homolog 1 (Drosophila)	0
955	O61575	IDBG-null	forkhead box N1	0
956	O61606	Gcgr	glucagon receptor	0
957	O61663	Tlx2	T-cell leukemia, homeobox 2	0
958	O61703	Itih2	inter-leukin trypsin inhibitor, heavy chain 2	0
959	O61806	Xlr3c	X-linked lymphocyte-regulated 3C	0
960	O61818	Rai1	retinoic acid induced 1	0
961	O61923	Kcna6	potassium voltage-gated channel, shaker-related, subfamily, member 6	0
962	O62009	Postn	periostin, osteoblast specific factor	0
963	O62148	Aldh1a2	aldehyde dehydrogenase family 1, subfamily A2	0
964	O62234	Mvom1	myomesin 1	0
965	O62271	Ddr2	discoidin domain receptor family, member 2	0
966	O62513	Zfp260	zinc finger protein 260	0
967	O63886	Uqt1a1	UDP glucuronosyltransferase 1 family, polypeptide A1	0
968	O63912	Oma	oligodendrocyte myelin glycoprotein	0
969	O64018	Gira1	glycine receptor, alpha 1 subunit	0
970	O640M1	Utp14a	UTP14, U3 small nucleolar ribonucleoprotein, homolog A (yeast)	0
971	O64338	Pde1c	phosphodiesterase 1C	0
972	O64362	Aktip	thymoma viral proto-oncogene 1 interacting protein	0
973	O64691	Capn3	calpain 3	0
974	O64704	IDBG-null	svptaxin 3	0
975	O64705	Plekha5	pleckstrin homology domain containing, family G (with RhoGef domain) member 5	0
976	O66X05	Nlrp4f	NLR family, pyrin domain containing 4F	0
977	O66X22	Nlrp9b	NLR family, pyrin domain containing 9B	0
978	O673H1	Tusc1	tumor suppressor candidate 1	0
979	O67B34	A4qalt	alpha 1,4-galactosyltransferase	0
980	O67BT3	Slc13a5	solute carrier family 13 (sodium-dependent citrate transporter), member 5	0
981	O68FF7	Slain1	SLAIN motif family, member 1	0
982	O68FL4	Ahcy12	S-adenosylhomocysteine hydrolase-like 2	0
983	O68FM6	Eifm2	leucine rich repeat and fibronectin type III, extracellular 2	0
984	O69237	IDBG-null	sterile alpha motif domain containing 9-like	0
985	O69283	Tspv15	testis-specific protein, Y-encoded-like 5	0
986	O69Z88	Zcchc2	zinc finger, CCHC domain containing 2	0
987	O69Z01	AI464131	expressed sequence AI464131	0
988	O69Z88	Ablim3	actin binding LIM protein family, member 3	0
989	O6A058	Armcx2	armadillo repeat containing, X-linked 2	0
990	O6A085	Zfp629	zinc finger protein 629	0
991	O6A0D4	Rftn1	raftlin lipid raft linker 1	0
992	O6BCL1	Pram1	PML-RAR alpha-regulated adaptor molecule 1	0
993	O6DFV8	Vwde	von Willebrand factor D and EGF domains	0
994	O6DFW0	3110043021Rik	RIKEN cDNA 3110043021 gene	0
995	O6D185	Fastk1	FAST kinase domains 1	0
996	O6D194	0610007P08Rik	RIKEN cDNA 0610007P08 gene	0
997	O6D185	IDBG-null	multiple EGF-like-domains 10	0
998	O6D1D5	Mum1	melanoma associated antigen (mutated) 1	0
999	O6EBV9	Atg9b	ATG9 autophagy related 9 homolog B (S. cerevisiae)	0
1000	O6GOV1	Fam196b	family with sequence similarity 196, member B	0
1001	O6GOV7	2700050L05Rik	RIKEN cDNA 2700050L05 gene	0
1002	O6GOX6	Anks6	ankyrin repeat and sterile alpha motif domain containing 6	0
1003	O6GV12	Kdsr	3-ketodihydroshiquosine reductase	0
1004	O6IEE6	Tmem132e	transmembrane protein 132E	0
1005	O6J9G1	Slyk1	serine/threonine/tyrosine kinase 1	0
1006	O6KAU7	Plekha2	pleckstrin homology domain containing, family G (with RhoGef domain) member 2	0
1007	O6NS45	Ccdc66	coiled-coil domain containing 66	0
1008	O6NS52	Dakb	diacylglycerol kinase, beta	0
1009	O6NVE8	Wdr44	WD repeat domain 44	0
1010	O6NZG4	4632434111Rik	RIKEN cDNA 4632434111 gene	0
1011	O6P1B1	Xpnpep1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble	0
1012	O6P1C6	Lria3	leucine-rich repeats and immunoglobulin-like domains 3	0
1013	O6P205	Xlr3b	X-linked lymphocyte-regulated 3B	0
1014	O6P2K3	4930452B06Rik	RIKEN cDNA 4930452B06 gene	0
1015	O6P2K6	Smek1	SMEK homolog 1, suppressor of mek1 (Dictyostelium)	0
1016	O6P4T0	Ata2a	ATG2 autophagy related 2 homolog A (S. cerevisiae)	0
1017	O6P580	Rrp12	ribosomal RNA processing 12 homolog (S. cerevisiae)	0
1018	O6P5G3	Mbt1	mbt domain containing 1	0
1019	O6P5U7	3110047P20Rik	RIKEN cDNA 3110047P20 gene	0
1020	O6P7W5	Tsen2	tRNA splicing endonuclease 2 homolog (S. cerevisiae)	0
1021	O6P8G8	Orai3	ORAI calcium release-activated calcium modulator 3	0
1022	O6P9J9	Ano6	anoctamin 6	0
1023	O6P9O4	Fhod1	formin homology 2 domain containing 1	0
1024	O6PAL1	2610109H07Rik	RIKEN cDNA 2610109H07 gene	0
1025	O6PCM2	Ints6	integrator complex subunit 6	0
1026	O6PDC0	Rundc3b	RUN domain containing 3B	0
1027	O6PE13	Prrt3	proline-rich transmembrane protein 3	0
1028	O6PFD6	Kif18b	kinesin family member 18B	0
1029	O6PGG2	Gmp1	Gem-interacting protein	0
1030	O6PGH2	Hn1l	hematological and neurological expressed 1-like	0
1031	O6Q2Z6	Acot5	acyl-CoA thioesterase 5	0
1032	O6TL19	Gucy2g	guanylate cyclase 2g	0
1033	O6V3W6	Ccdc135	coiled-coil domain containing 135	0
1034	O6V5K9	Zfp474	zinc finger protein 474	0
1035	O6VWV9	Cyp2r1	cytochrome P450, family 2, subfamily r, polypeptide 1	0
1036	O6X632	Gpr75	G protein-coupled receptor 75	0
1037	O6X7S9	Eid2	EP300 interacting inhibitor of differentiation 2	0
1038	O6XUX1	Dstyk	dual serine/threonine and tyrosine protein kinase	0
1039	O6ZPE2	Sbf1	SET binding factor 1	0
1040	O6ZPF4	Fmnl3	formin-like 3	0
1041	O6ZPG2	Wdr90	WD repeat domain 90	0
1042	O6ZPI3	Lcor	ligand dependent nuclear receptor corepressor	0
1043	O6ZPR4	Kcnt1	potassium channel, subfamily T, member 1	0
1044	O6ZOS8	Larp1	La ribonucleoprotein domain family, member 1	0
1045	O6ZQ46	Iosf3	immunoglobulin superfamily, member 3	0
1046	O6ZO13	Mlec	mallelectin	0
1047	O6ZWN5	Rps9	ribosomal protein S9	0
1048	O6ZWY9	Hist1h2bc	histone cluster 1, H2bc	0
1049	O71B07	Dpy19l3	dpy-19-like 3 (C. elegans)	0
1050	O76125	Mettl7a2	methyltransferase like 7A2	0
1051	O76KJ5	Cd3eap	CD3E antigen, epsilon polypeptide associated protein	0
1052	O78PY7	Snd1	staphylococcal nuclease and tudor domain containing 1	0
1053	O7M6Y3	Picalm	phosphatidylinositol binding clathrin assembly protein	0
1054	O7TMV3	Fastkd5	FAST kinase domains 5	0
1055	O7TN12	5730559C18Rik	RIKEN cDNA 5730559C18 gene	0
1056	O7TN33	Celf6	CUGBP, Elav-like family member 6	0
1057	O7TNM2	Trim46	tripartite motif-containing 46	0

1058	O7TPM9	Mtmr10	myotubularin related protein 10	0
1059	O7TPN9	IDBG-null	proline rich 14	0
1060	O7TO32	Hfe2	hemochromatosis type 2 (juvenile) (human homolog)	0
1061	O7TO65	Tmc4	transmembrane channel-like gene family 4	0
1062	O7TOA5	Tas2r139	taste receptor, type 2, member 139	0
1063	O7TOA8	Tas2r136	taste receptor, type 2, member 136	0
1064	O7TOH7	Lrp10	low-density lipoprotein receptor-related protein 10	0
1065	O7TOI7	Abtb2	ankyrin repeat and BTB (POZ) domain containing 2	0
1066	O7TOK1	Ints7	integrator complex subunit 7	0
1067	O7TS48	Olf1r180	olfactory receptor 180	0
1068	O7TSA6	BC053749	cDNA sequence BC053749	0
1069	O7TSC3	Nek5	NIMA (never in mitosis gene a)-related expressed kinase 5	0
1070	O7TSF4	BC046404	cDNA sequence BC046404	0
1071	O7TSN6	Gpr151	G protein-coupled receptor 151	0
1072	O7TST5	Lamp3	lysosomal-associated membrane protein 3	0
1073	O7TT15	Wbscr17	Williams-Beuren syndrome chromosome region 17 homolog (human)	0
1074	O7TT23	4930402H24Rik	RIKEN cDNA 4930402H24 gene	0
1075	O7TTS2	Pop1r14d	protein phosphatase 1, regulatory (inhibitor) subunit 14D	0
1076	O80SW1	Ahcy1	S-adenosylhomocysteine hydrolase-like 1	0
1077	O80SZ7	Gna5	guanine nucleotide binding protein (G protein), gamma 5	0
1078	O80T03	Muc6	mucin 6, gastric	0
1079	O80T62	Gpr101	G protein-coupled receptor 101	0
1080	O80T87	Zswim6	zinc finger, SWIM domain containing 6	0
1081	O80TD3	Fniip2	folliculin interacting protein 2	0
1082	O80TG1	IDBG-null	RIKEN cDNA 1700081L11 gene	0
1083	O80TJ7	Phf8	PHD finger protein 8	0
1084	O80TL1	Adev2	adenylate cyclase 2	0
1085	O80TL7	Mon2	MON2 homolog (yeast)	0
1086	O80TS3	IDBG-null	latrophilin 3	0
1087	O80T57	Ddn	dendrin	0
1088	O80TT2	Baiap3	BAI1-associated protein 3	0
1089	O80U95	Ube3c	ubiquitin protein ligase E3C	0
1090	O80UK8	Ints2	integrator complex subunit 2	0
1091	O80UU9	Pqrmc2	progesterone receptor membrane component 2	0
1092	O80UZ0	Fcd5	FYVE, RhoGEF and PH domain containing 5	0
1093	O80V72	Ipk2k	inositol hexaphosphate kinase 2	0
1094	O80VA5	Sh3c2	SH3 domain and tetrapeptide repeats 2	0
1095	O80VL1	Tdrkh	tudor and KH domain containing protein	0
1096	O80VN0	Ccdc37	coiled-coil domain containing 37	0
1097	O80W32	Icca	IQ motif containing G	0
1098	O80W49	Cryba3	beta-gamma crystallin domain containing 3	0
1099	O80WM4	Hapln4	hyaluronan and proteoglycan link protein 4	0
1100	O80WT0	Jph4	junctophilin 4	0
1101	O80WV3	Chst2	carbohydrate sulfotransferase 2	0
1102	O80WV7	IDBG-null	serine/arginine repetitive matrix 3	0
1103	O80X60	Efcab3	EF-hand calcium binding domain 3	0
1104	O80XC3	IDBG-null	USP6 N-terminal like	0
1105	O80X14	Pip4k2b	phosphatidylinositol-5-phosphate 4-kinase, type II, beta	0
1106	O80X17	Bpifb9a	BPI fold containing family B, member 9A	0
1107	O80XP8	Fam76b	family with sequence similarity 76, member B	0
1108	O80Y56	Zfyve20	zinc finger, FYVE domain containing 20	0
1109	O80YR3	2810030E01Rik	RIKEN cDNA 2810030E01 gene	0
1110	O80YR9	Rbm12b	RNA binding motif protein 12B	0
1111	O80Z10	Astn2	astroctactin 2	0
1112	O80Z60	IDBG-null	endothelin converting enzyme 2	0
1113	O80ZD9	Amigo2	adhesion molecule with Ig like domain 2	0
1114	O80ZF8	Bai3	brain-specific angiogenesis inhibitor 3	0
1115	O80Z17	Snx32	sorting nexin 32	0
1116	O80ZX8	Spaq1	sperm associated antigen 1	0
1117	O810C0	Slitk2	SLIT and NTRK-like family, member 2	0
1118	O811B1	Xylt1	xylosyltransferase 1	0
1119	O811C2	Ata4c	autophagy-related 4C (yeast)	0
1120	O811J3	Ireb2	iron responsive element binding protein 2	0
1121	O8BFR2	Fstl5	folliculin-like 5	0
1122	O8BFR5	Tufm	Tu translation elongation factor, mitochondrial	0
1123	O8BFJ3	Rnf214	ring finger protein 214	0
1124	O8BG15	Ctda92	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase like 2	0
1125	O8BG22	Clca5	chloride channel calcium activated 5	0
1126	O8BG34	IDBG-null	UBX domain protein 10	0
1127	O8BG39	Sv2b	synaptic vesicle glycoprotein 2 b	0
1128	O8BG93	Nudt15	nudix (nucleoside diphosphate linked moiety X)-type motif 15	0
1129	O8BG82	Ttc7	tetrapeptide repeat domain 7	0
1130	O8BGF7	IDBG-null	PAN2 polyA specific ribonuclease subunit homolog (S. cerevisiae)	0
1131	O8BGG9	Acnat2	acyl-coenzyme A amino acid N-acyltransferase 2	0
1132	O8BGM5	Best2	bestrophin 2	0
1133	O8BGR2	Lrrc8d	leucine rich repeat containing 8D	0
1134	O8BGK7	2310008H04Rik	RIKEN cDNA 2310008H04 gene	0
1135	O8BH05	Zfp750	zinc finger protein 750	0
1136	O8BH15	Cnot10	CCR4-NOT transcription complex, subunit 10	0
1137	O8BH48	Uba1	ubiquitin-associated protein 1	0
1138	O8BH50	8030462N17Rik	RIKEN cDNA 8030462N17 gene	0
1139	O8BHE4	Tmem108	transmembrane protein 108	0
1140	O8BHN1	Txlnq	taxilin gamma	0
1141	O8BHS8	Sybu	syntabulin (syntaxin-interacting)	0
1142	O8BI79	Ccdc40	coiled-coil domain containing 40	0
1143	O8BIR2	Aste1	asteroid homolog 1 (Drosophila)	0
1144	O8BIV7	Sic45a1	solute carrier family 45, member 1	0
1145	O8BIX9	Ficd	FIC domain containing	0
1146	O8BJ05	Zc3h14	zinc finger CCCH type containing 14	0
1147	O8BJ63	Mudena	MU-2/AP1M2 domain containing, death-inducing	0
1148	O8BJA2	Sic41a1	solute carrier family 41, member 1	0
1149	O8BJH1	IDBG-null	family with sequence similarity 164, member A	0
1150	O8BJM7	Tyw1	tRNA-yW synthesizing protein 1 homolog (S. cerevisiae)	0
1151	O8BKC8	Pi4kb	phosphatidylinositol 4-kinase, catalytic, beta polypeptide	0
1152	O8BKF1	Polrmt	polymerase (RNA) mitochondrial (DNA directed)	0
1153	O8BKU8	Tmem87b	transmembrane protein 87B	0
1154	O8BLF2	Cdk3	cyclin-dependent kinase-like 3	0
1155	O8BLX7	IDBG-null	collagen, type XVI, alpha 1	0
1156	O8BM13	Olfm2	olfactomedin 2	0
1157	O8BM55	Tmem214	transmembrane protein 214	0
1158	O8BM65	9430031J16Rik	RIKEN cDNA 9430031J16 gene	0
1159	O8BM96	Gpr128	G protein-coupled receptor 128	0
1160	O8BMA3	Cnksr3	Cnksr family member 3	0
1161	O8BMC4	2610027L16Rik	RIKEN cDNA 2610027L16 gene	0
1162	O8BM14	Gen1	Gen homolog 1, endonuclease (Drosophila)	0
1163	O8BM51	Hadha	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit	0
1164	O8BN04	Ddx26b	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B	0
1165	O8BNV1	Tm22a	TRM2 tRNA methyltransferase 2 homolog A (S. cerevisiae)	0
1166	O8BPE4	Tmem177	transmembrane protein 177	0
1167	O8BQ47	Cnpy4	canopy 4 homolog (zebrafish)	0
1168	O8BQM4	Heatr3	HEAT repeat containing 3	0
1169	O8BQM9	Med12l	mediator of RNA polymerase II transcription, subunit 12 homolog (yeast)-like	0
1170	O8BR92	Palm2	paralectin 2	0
1171	O8BRB7	Myst4	MYST histone acetyltransferase monocytic leukemia 4	0
1172	O8BSD5	She	src homolog 2 domain-containing transforming protein E	0
1173	O8BT18	3632451O06Rik	RIKEN cDNA 3632451O06 gene	0
1174	O8BT76	Dieaf	digestive organ expansion factor homolog (zebrafish)	0
1175	O8BU51	Bpifb6	BPI fold containing family B, member 6	0
1176	O8BU13	Lrwd1	leucine-rich repeats and WD repeat domain containing 1	0

1177	O8BU6	IDBG-null	pleckstrin homolog domain containing, family A (phosphoinositide binding specific) member 1	0
1178	O8BV4	Odr	quinoid dihydropteridine reductase	0
1179	O8BV7	Als2cr12	amvotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 12 (human)	0
1180	O8BV7	Sic25a41	solute carrier family 25, member 41	0
1181	O8BVU5	Nudt9	nudix (nucleoside diphosphate linked moiety X)-type motif 9	0
1182	O8WB1	Synpo2l	synaptopodin 2-like	0
1183	O8BW64	D63003M21Rik	RIKEN cDNA D63003M21 gene	0
1184	O8BWJ3	Phka2	phosphorylase kinase alpha 2	0
1185	O8BWM0	Ptoes2	prostaglandin E synthase 2	0
1186	O8BWQ4	Ftsid1	FtsJ methyltransferase domain containing 1	0
1187	O8BWR4	Usp40	ubiquitin specific peptidase 40	0
1188	O8BWT5	Dip2a	DIP2 disco-interacting protein 2 homolog A (Drosophila)	0
1189	O8BWW4	Larp4	La ribonucleoprotein domain family, member 4	0
1190	O8BK4	B630005N14Rik	RIKEN cDNA B630005N14 gene	0
1191	O8BX06	2010111101Rik	RIKEN cDNA 2010111101 gene	0
1192	O8BY35	Fcd2	FYVE, RhoGEF and PH domain containing 2	0
1193	O8BY89	IDBG-null	solute carrier family 44, member 2	0
1194	O8BY18	8430419L09Rik	RIKEN cDNA 8430419L09 gene	0
1195	O8BYW1	Arhaop25	Rho GTPase activating protein 25	0
1196	O8BZ52	Fsd2	fibronectin type III and SPRY domain containing 2	0
1197	O8BZ97	Prdm8	PR domain containing 8	0
1198	O8BZM0	Klhl12	kelch-like 12 (Drosophila)	0
1199	O8BZW2	Ankrd56	ankyrin repeat domain 56	0
1200	O8C0E3	Trim47	tripartite motif-containing 47	0
1201	O8C009	IDBG-null	Rap guanine nucleotide exchange factor (GEF) 5	0
1202	O8C051	Dis3l	DIS3 mitotic control homolog (S. cerevisiae)-like	0
1203	O8C0V1	Ccd79	coiled-coil domain containing 79	0
1204	O8C0V9	Frm6d	FERM domain containing 6	0
1205	O8C0X8	4921509C19Rik	RIKEN cDNA 4921509C19 gene	0
1206	O8C152	Fam46b	family with sequence similarity 46, member B	0
1207	O8C176	Taf2	TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor	0
1208	O8C1F5	Ttc16	tetratricopeptide repeat domain 16	0
1209	O8C2K1	Def6	differentially expressed in FDCP 6	0
1210	O8C2S5	Fbxl5	F-box and leucine-rich repeat protein 5	0
1211	O8CK6	Sic5a1	solute carrier family 5 (sodium/glucose cotransporter), member 1	0
1212	O8C3L1	D630042P16Rik	RIKEN cDNA D630042P16 gene	0
1213	O8C3M9	D630023F18Rik	RIKEN cDNA D630023F18 gene	0
1214	O8C3P7	Mettl3	methyltransferase like 3	0
1215	O8C3O5	Shisa7	shisa homolog 7 (Xenopus laevis)	0
1216	O8C3W1	2310022B05Rik	RIKEN cDNA 2310022B05 gene	0
1217	O8C3Y4	Kntc1	kinetochore associated 1	0
1218	O8C4J0	Ccdc60	coiled-coil domain containing 60	0
1219	O8C525	1600021P15Rik	RIKEN cDNA 1600021P15 gene	0
1220	O8C561	Lmbrd2	LMBR1 domain containing 2	0
1221	O8C5L3	Cnot2	CCR4-NOT transcription complex, subunit 2	0
1222	O8C5P5	Nt50c1	5'-nucleotidase domain containing 1	0
1223	O8C5V5	Wdr27	WD repeat domain 27	0
1224	O8C636	Spata16	spermatogenesis associated 16	0
1225	O8C729	Fam126b	family with sequence similarity 126, member B	0
1226	O8C7U1	N4bp3	NEDD4 binding protein 3	0
1227	O8C817	Tmem200a	transmembrane protein 200A	0
1228	O8C8B0	Alx1	ALX homeobox 1	0
1229	O8CA03	Sic46a2	solute carrier family 46, member 2	0
1230	O8CB44	Gramd4	GRAM domain containing 4	0
1231	O8CB87	Rab44	RAB44, member RAS oncogene family	0
1232	O8CBW4	Dcaf12l1	DDb1 and CUL4 associated factor 12-like 1	0
1233	O8CC51	Fam164c	family with sequence similarity 164, member C	0
1234	O8CCM6	1700034H14Rik	RIKEN cDNA 1700034H14 gene	0
1235	O8CCN5	Bcas3	breast carcinoma amplified sequence 3	0
1236	O8CDA1	Inpp5f	inositol polyphosphate-5-phosphatase F	0
1237	O8CDN1	4930590J08Rik	RIKEN cDNA 4930590J08 gene	0
1238	O8CDP0	Aqbl3	ATP/GTP binding protein-like 3	0
1239	O8CDU5	Efhd	EF hand domain family, member B	0
1240	O8CDU6	Hectd2	HECT domain containing 2	0
1241	O8CDV6	Ccdc63	coiled-coil domain containing 63	0
1242	O8CE13	Ccd17	coiled-coil domain containing 17	0
1243	O8CE96	IDBG-null	tRNA methyltransferase 6 homolog (S. cerevisiae)	0
1244	O8CEE6	Pask	PAS domain containing serine/threonine kinase	0
1245	O8CFE4	IDBG-null	SCY1-like 2 (S. cerevisiae)	0
1246	O8CFG9	C1rb	complement component 1, r subcomponent B	0
1247	O8CFI5	Pars2	prolyl-tRNA synthetase (mitochondrial)(putative)	0
1248	O8CFL8	Zswim3	zinc finger, SWIM domain containing 3	0
1249	O8CFP6	Dnaic27	DnaJ (Hsp40) homolog, subfamily C, member 27	0
1250	O8CFS6	Kcnv2	potassium channel, subfamily V, member 2	0
1251	O8CG65	Sspo	SCO-spondin	0
1252	O8CG76	Akr7a5	aldo-keto reductase family 7, member A5 (aflatoxin aldehyde reductase)	0
1253	O8CGP1	IDBG-null	histone cluster 1, H2bk	0
1254	O8CGP5	Hist1h2af	histone cluster 1, H2af	0
1255	O8CH02	Suap1	SURP and G patch domain containing 1	0
1256	O8CHG5	1110018G07Rik	RIKEN cDNA 1110018G07 gene	0
1257	O8CHH5	BC032203	cDNA sequence BC032203	0
1258	O8CHJ2	Aqp12	aquaporin 12	0
1259	O8CHP5	Wiba	within bcn homolog (Drosophila)	0
1260	O8CHS2	Dnaic22	DnaJ (Hsp40) homolog, subfamily C, member 22	0
1261	O8C143	Mvl6b	mvosin, light polypeptide 6B	0
1262	O8C151	Pdlim5	PDZ and LIM domain 5	0
1263	O8C185	Car12	carbonic anhydrase 12	0
1264	O8C185	Fermt2	fermitin family homolog 2 (Drosophila)	0
1265	O8CIN6	Celf3	CUGBP, Elav-like family member 3	0
1266	O8CIP5	Disp2	dispatched homolog 2 (Drosophila)	0
1267	O8JZX3	Poc1a	POC1 centriolar protein homolog A (Chlamydomonas)	0
1268	O8JZX4	Rbm17	RNA binding motif protein 17	0
1269	O8JZY2	Comm10	COMM domain containing 10	0
1270	O8K007	Sulf1	sulfatase 1	0
1271	O8K070	Samd14	sterile alpha motif domain containing 14	0
1272	O8K072	Reep4	receptor accessory protein 4	0
1273	O8K083	Lrrc66	leucine rich repeat containing 66	0
1274	O8K0C9	Gm6d	GDP-mannose 4, 6-dehydratase	0
1275	O8K0D5	Gfm1	G elongation factor, mitochondrial 1	0
1276	O8K0L9	Zbtb20	zinc finger and BTB domain containing 20	0
1277	O8K1G2	Evc2	Ellis van Creveld syndrome 2 homolog (human)	0
1278	O8K1R3	Pnpt1	polynucleotide nucleotidyltransferase 1	0
1279	O8K1S2	Unc5d	unc-5 homolog D (C. elegans)	0
1280	O8K1X1	Wdr11	WD repeat domain 11	0
1281	O8K1Y2	Prkd3	protein kinase D3	0
1282	O8K224	Nat10	N-acetyltransferase 10	0
1283	O8K2D0	Fam199x	family with sequence similarity 199, X-linked	0
1284	O8K2V1	Ppp4r1	protein phosphatase 4, regulatory subunit 1	0
1285	O8K2W3	IDBG-null	thioredoxin domain containing 11	0
1286	O8K342	Rassf9	Ras association (RalGDS/AF-6) domain family (N-terminal) member 9	0
1287	O8K3C3	Lzic	leucine zipper and CTNNBIP1 domain containing	0
1288	O8K3O3	Foxn4	forkhead box N4	0
1289	O8K3V1	Spata4	spermatogenesis associated 4	0
1290	O8K3X4	6430527G18Rik	RIKEN cDNA 6430527G18 gene	0
1291	O8K450	Spaq16	sperm associated antigen 16	0
1292	O8K482	Emilin2	elastin microfibril interfacier 2	0
1293	O8OZV7	4933424B01Rik	RIKEN cDNA 4933424B01 gene	0
1294	O8ROX2	2700078E11Rik	RIKEN cDNA 2700078E11 gene	0
1295	O8R1C0	Kcnca4	potassium voltage gated channel, Shaw-related subfamily, member 4	0

1296	O8R1G1	Tasp1	taspage, threonine aspartase 1	0
1297	O8R1M2	H2afi	H2A histone family, member J	0
1298	O8R1P5	Kcnk13	potassium channel, subfamily K, member 13	0
1299	O8R2G4	Art3	ADP-ribosyltransferase 3	0
1300	O8R2H9	Phospho1	phosphatase, orphan 1	0
1301	O8R2P1	Kihl25	Kelch-like 25 (Drosophila)	0
1302	O8R2Z3	Slc25a7	solute carrier family 25, member 7	0
1303	O8R370	Ushbp1	Usher syndrome 1C binding protein 1	0
1304	O8R3L2	Tcf25	transcription factor 25 (basic helix-loop-helix)	0
1305	O8R3Y8	Irf2bp1	interferon regulatory factor 2 binding protein 1	0
1306	O8R429	Atp2a1	ATPase, Ca++ transporting, cardiac muscle, fast twitch 1	0
1307	O8R493	Chrb4	cholinergic receptor, nicotinic, beta polypeptide 4	0
1308	O8R4H4	Cpa5	carboxypeptidase A5	0
1309	O8R4P4	Tmc2	transmembrane channel-like gene family 2	0
1310	O8R4U6	Top1mt	DNA topoisomerase 1, mitochondrial	0
1311	O8R502	Lrrc8c	leucine rich repeat containing 8 family, member C	0
1312	O8R5K4	Nol6	nucleolar protein family 6 (RNA-associated)	0
1313	O8VBT2	Sds	serine dehydratase	0
1314	O8VC12	Uroc1	urocanase domain containing 1	0
1315	O8VC70	Rbms2	RNA binding motif, single stranded interacting protein 2	0
1316	O8VCB3	Gvs2	glycoen synthase 2	0
1317	O8VC10	Plbd1	phospholipase B domain containing 1	0
1318	O8VCR2	Hsd17b13	hydroxysteroid (17-beta) dehydrogenase 13	0
1319	O8VCR3	5730437N04Rik	RIKEN cDNA 5730437N04 gene	0
1320	O8VCR8	Mylk2	myosin, light polypeptide kinase 2, skeletal muscle	0
1321	O8VCT9	TesK2	testis-specific kinase 2	0
1322	O8VCV5	Cbara1	calcium binding atopy-related autoantigen 1	0
1323	O8VCZ7	Zbtb7c	zinc finger and BTB domain containing 7C	0
1324	O8VCZ9	Prodh2	proline dehydrogenase (oxidase) 2	0
1325	O8VDC1	Fycy1	FYVE and coiled-coil domain containing 1	0
1326	O8VDH1	Fbxo21	F-box protein 21	0
1327	O8VDM4	Psmid2	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2	0
1328	O8VDO1	IDBG-null	prostaqlandin reductase 2	0
1329	O8VDO9	Kri1	KRI1 homolog (S. cerevisiae)	0
1330	O8VDS7	Cep5711	centrosomal protein 57-like 1	0
1331	O8VDU0	Gpsm2	G-protein signalling modulator 2 (AGS3-like, C. elegans)	0
1332	O8VDV3	IDBG-null	RAB24 interacting protein (rabln3)-like 1	0
1333	O8VDY9	5830433M19Rik	RIKEN cDNA 5830433M19 gene	0
1334	O8VE52	Odfrr1	oploid growth factor receptor-like 1	0
1335	O8VE88	Fam114a2	family with sequence similarity 114, member A2	0
1336	O8VEE1	Lmcd1	LIM and cysteine-rich domains 1	0
1337	O8VEI3	Hyal3	hyaluronoglucosaminidase 3	0
1338	O8VEJ9	Vps4a	vacuolar protein sorting 4a (yeast)	0
1339	O8VEN2	1600029D21Rik	RIKEN cDNA 1600029D21 gene	0
1340	O8VG42	Olfrr508	olfactory receptor 508	0
1341	O8VHG2	Amot	angiominin	0
1342	O8VHW2	Edaradd	EDAR (ectodysplasin-A receptor)-associated death domain	0
1343	O8VJ59	Pcnx3	pecanex-like 3 (Drosophila)	0
1344	O8VIG0	Zcchc14	zinc finger, CCHC domain containing 14	0
1345	O8VII8	IDBG-null	nuclear receptor subfamily 3, group C, member 2	0
1346	O91V01	Lpcat3	lysophosphatidylcholine acyltransferase 3	0
1347	O91V12	Aco7	acyl-CoA thioesterase 7	0
1348	O91V24	Abca7	ATP-binding cassette, sub-family A (ABC1), member 7	0
1349	O91V80	ApoF	apolipoprotein F	0
1350	O91VH2	Snx9	sorting nexin 9	0
1351	O91VL9	Zbtb1	zinc finger and BTB domain containing 1	0
1352	O91VU8	Plov1	prostate tumor over expressed gene 1	0
1353	O91W18	Tdrd3	tudor domain containing 3	0
1354	O91W69	Epn3	epsin 3	0
1355	O91W96	Anapc4	anaphase promoting complex subunit 4	0
1356	O91WC0	Setd3	SET domain containing 3	0
1357	O91WC3	Acsf6	acyl-CoA synthetase long-chain family member 6	0
1358	O91WF3	Adcy4	adenylate cyclase 4	0
1359	O91WG8	Gne	glucosamine	0
1360	O91WM1	Strbp	spermatid perinuclear RNA binding protein	0
1361	O91X44	Gckr	glucokinase regulatory protein	0
1362	O91X46	Rhogef3	Rho guanine nucleotide exchange factor (GEF) 3	0
1363	O91X86	Tmem98	transmembrane protein 98	0
1364	O91XL3	Uxs1	UDP-glucuronate decarboxylase 1	0
1365	O91XP5	Gira3	glycine receptor, alpha 3 subunit	0
1366	O91XT4	Sec16b	SEC16 homolog B (S. cerevisiae)	0
1367	O91XV3	Basp1	brain abundant, membrane attached signal protein 1	0
1368	O91Y47	F11	coagulation factor XI	0
1369	O91Y63	Slc13a3	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	0
1370	O91YD4	Trpm2	transient receptor potential cation channel, subfamily M, member 2	0
1371	O91YE7	Rbm5	RNA binding motif protein 5	0
1372	O91YM4	Tbrn4	transforming growth factor beta regulated gene 4	0
1373	O91YP3	Dera	2-deoxyribose-5-phosphate aldolase homolog (C. elegans)	0
1374	O91YW3	Dnaic3	DnaJ (Hsp40) homolog, subfamily C, member 3	0
1375	O91Z22	Tmem123	transmembrane protein 123	0
1376	O91Z49	Fytd1	forty-two-three domain containing 1	0
1377	O91ZR5	Catsper1	cation channel, sperm associated 1	0
1378	O91ZU9	Grin3b	glutamate receptor, ionotropic, NMDA3B	0
1379	O91ZW8	Cd209d	CD209d antigen	0
1380	O920G3	Siqlec5	sialic acid binding Iq-like lectin 5	0
1381	O920G8	IDBG-null	solute carrier family 25, member 37	0
1382	O920M5	Coro6	coronin 6	0
1383	O920S3	Gatad1	GATA zinc finger domain containing 1	0
1384	O921G6	Lrch4	leucine-rich repeats and calponin homology (CH) domain containing 4	0
1385	O921H8	Acaa1a	acetyl-Coenzyme A acyltransferase 1A	0
1386	O921R4	Dnaic14	DnaJ (Hsp40) homolog, subfamily C, member 14	0
1387	O921W0	Chmp1a	charged multivesicular body protein 1A	0
1388	O922B2	Dars	aspartyl-tRNA synthetase	0
1389	O922M5	Cdca71	cell division cycle associated 7 like	0
1390	O922Q2	RioK1	RIO kinase 1 (yeast)	0
1391	O922Q5	Slc35b3	solute carrier family 35, member B3	0
1392	O922U11	Prip3	PRP3 pre-mRNA processing factor 3 homolog (yeast)	0
1393	O923T9	Camk2q	calcium/calmodulin-dependent protein kinase II gamma	0
1394	O924T2	Mrrs2	mitochondrial ribosomal protein S2	0
1395	O93092	Taldo1	transaldolase 1	0
1396	O99J31	Ophn1	oligophrenin 1	0
1397	O99JT1	Pet112l	PET112-like (yeast)	0
1398	O99K28	Arfap2	ADP-ribosylation factor GTPase activating protein 2	0
1399	O99K67	Aas	aminoadipate-semialdehyde synthase	0
1400	O99KE1	Me2	malic enzyme 2, NAD(+) dependent, mitochondrial	0
1401	O99KH8	Stk24	serine/threonine kinase 24 (STE20 homolog, yeast)	0
1402	O99KJ9	Hars2	histidyl-tRNA synthetase 2, mitochondrial (putative)	0
1403	O99KN9	IDBG-null	clathrin interactor 1	0
1404	O99L04	Dhrs1	dehydrogenase/reductase (SDR family) member 1	0
1405	O99LC5	EtfA	electron transferring flavoprotein, alpha polypeptide	0
1406	O99LE1	Rilpl2	Rab interacting lysosomal protein-like 2	0
1407	O99LG0	Usp16	ubiquitin specific peptidase 16	0
1408	O99LG1	Tmem51	transmembrane protein 51	0
1409	O99LJ6	Gpx7	glutathione peroxidase 7	0
1410	O99M01	Fars2	phenylalanine-tRNA synthetase 2 (mitochondrial)	0
1411	O99M54	Cdca3	cell division cycle associated 3	0
1412	O99M12	IDBG-null	tyrosine kinase, non-receptor, 1	0
1413	O99MR6	Srrt	serrate RNA effector molecule homolog (Arabidopsis)	0
1414	O99MR9	Ppd1r3a	protein phosphatase 1, regulatory (inhibitor) subunit 3A	0

1415	O99M57	Ehbp111	EH domain binding protein 1-like 1	0
1416	O99MV5	Mov1011	Moloney leukemia virus 10-like 1	0
1417	O99N64	Gm2825	predicted gene 2825	0
1418	O99NB1	Acss1	acyl-CoA synthetase short-chain family member 1	0
1419	O99N13	Gtf2ird2	GTF2I repeat domain containing 2	0
1420	O99PE8	Abca5	ATP-binding cassette, sub-family G (WHITE), member 5	0
1421	O99PL6	Ubxm6	UBX domain protein 6	0
1422	O99PV8	Bcl11b	B-cell leukemia/lymphoma 11B	0
1423	O9CPN8	Igf2bp3	insulin-like growth factor 2 mRNA binding protein 3	0
1424	O9CPT0	Bcl2l14	BCL2-like 14 (apoptosis facilitator)	0
1425	O9CPV4	IDBG-null	glvoxalase domain containing 4	0
1426	O9CPV9	P2ry12	purinergic receptor P2Y, G-protein coupled 12	0
1427	O9CPW0	IDBG-null	contactin associated protein-like 2	0
1428	O9CO61	Unc50	unc-50 homolog (C. elegans)	0
1429	O9CO53	Fibin	fin bud initiation factor homolog (zebrafish)	0
1430	O9COV1	IDBG-null	presequeance translocase-associated motor 16 homolog (S. cerevisiae)	0
1431	O9CR73	PnrC2	proline-rich nuclear receptor coactivator 2	0
1432	O9CRA9	Faf1op2	FGFR1 oncogene partner 2	0
1433	O9CRC9	Gnpda2	glucosamine-6-phosphate deaminase 2	0
1434	O9CUL5	IDBG-null	IQ motif containing with AAA domain	0
1435	O9CWJ9	Atic	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	0
1436	O9CWP6	Mospd2	motile sperm domain containing 2	0
1437	O9CWW6	Pin4	protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)	0
1438	O9CWZ7	Napq	N-ethylmaleimide sensitive fusion protein attachment protein gamma	0
1439	O9CX97	Wdr55	WD repeat domain 55	0
1440	O9CX06	Ccdc90a	coiled-coil domain containing 90A	0
1441	O9CYN2	Sacs2	signal peptidase complex subunit 2 homolog (S. cerevisiae)	0
1442	O9CYU6	Wdr85	WD repeat domain 85	0
1443	O9CZ19	Aen	apoptosis enhancing nuclease	0
1444	O9D0B8	Ribc1	RIB43A domain with coiled-coils 1	0
1445	O9D0I9	Rars	arginyl-tRNA synthetase	0
1446	O9D0R4	Ddx56	DEAD (Asp-Glu-Ala-Asp) box polypeptide 56	0
1447	O9D1E6	Tbcb	tubulin folding cofactor B	0
1448	O9D1F5	3010026009Rik	RIKEN cDNA 3010026009 gene	0
1449	O9D1H7	Get4	golgi to ER traffic protein 4 homolog (S. cerevisiae)	0
1450	O9D2F7	Nup210l	nucleoporin 210-like	0
1451	O9D2C5	Symt2	symnaptotain 2	0
1452	O9D2H2	Ak7	adenylylate kinase 7	0
1453	O9D2H8	Fndc8	fibronectin type III domain containing 8	0
1454	O9D394	Rufy3	RUN and FYVE domain containing 3	0
1455	O9D3R5	Fam187a	family with sequence similarity 187, member A	0
1456	O9D3W5	4933430H15Rik	RIKEN cDNA 4933430H15 gene	0
1457	O9D439	Ccdc11	coiled-coil domain containing 11	0
1458	O9D4C5	Eaf1	ELL associated factor 1	0
1459	O9D4D4	Tkt12	transketolase-like 2	0
1460	O9D4H2	Gcc1	golgi coiled coil 1	0
1461	O9D4H9	Phf14	PHD finger protein 14	0
1462	O9D4K5	Fam166a	family with sequence similarity 166, member A	0
1463	O9D572	Ubxn11	UBX domain protein 11	0
1464	O9D5A0	Spesp1	sperm equatorial segment protein 1	0
1465	O9D5E4	Lrrc48	leucine rich repeat containing 48	0
1466	O9D5U8	4921517L17Rik	RIKEN cDNA 4921517L17 gene	0
1467	O9D695	Serpinb7	serine (or cysteine) peptidase inhibitor, clade B, member 7	0
1468	O9D6F4	Gabra4	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 4	0
1469	O9D787	Ppil2	peptidylprolyl isomerase (cyclophilin)-like 2	0
1470	O9D7F7	Chmp4c	charged multivesicular body protein 4C	0
1471	O9D7H3	Rna1	RNA terminal phosphate cyclase domain 1	0
1472	O9D7J8	Fam83d	family with sequence similarity 83, member D	0
1473	O9D7J9	Echdc3	enoyl Coenzyme A hydratase domain containing 3	0
1474	O9D832	Dnaib4	DnaJ (Hsp40) homolog, subfamily B, member 4	0
1475	O9D842	Alpf	apratxin and PNKP like factor	0
1476	O9D8B6	2010011120Rik	RIKEN cDNA 2010011120 gene	0
1477	O9D8K8	Slc25a39	solute carrier family 25, member 39	0
1478	O9D8S3	Arfoap3	ADP-ribosylation factor GTPase activating protein 3	0
1479	O9D9D9	1700094D03Rik	RIKEN cDNA 1700094D03 gene	0
1480	O9D9F5	Tbc1d20	TBC1 domain family, member 20	0
1481	O9D9A9	1700011E24Rik	RIKEN cDNA 1700011E24 gene	0
1482	O9DAM7	AI597468	expressed sequence AI597468	0
1483	O9DB90	1500002O20Rik	RIKEN cDNA 1500002O20 gene	0
1484	O9DBA8	Amdhd1	amidohydrolase domain containing 1	0
1485	O9DBE9	Ftsi3	FtsJ homolog 3 (E. coli)	0
1486	O9DBM1	Gpatch1	G patch domain containing 1	0
1487	O9DBN4	4833439L19Rik	RIKEN cDNA 4833439L19 gene	0
1488	O9DBP0	Slc34a2	solute carrier family 34 (sodium phosphate), member 2	0
1489	O9DBO9	1200016B10Rik	RIKEN cDNA 1200016B10 gene	0
1490	O9DBU3	Rio3	RIO kinase 3 (yeast)	0
1491	O9DBV8	Nvl	nuclear VCP-like	0
1492	O9DC29	Abcb6	ATP-binding cassette, sub-family B (MDR/TAP), member 6	0
1493	O9DCS3	Mecr	mitochondrial trans-2-enoyl-CoA reductase	0
1494	O9DCV6	0610009O20Rik	RIKEN cDNA 0610009O20 gene	0
1495	O9EP72	2900064A13Rik	RIKEN cDNA 2900064A13 gene	0
1496	O9EP75	Cyp4f14	cytochrome P450, family 4, subfamily f, polypeptide 14	0
1497	O9EPU0	Upf1	UPF1 regulator of nonsense transcripts homolog (yeast)	0
1498	O9EPU5	Tnfrsf21	tumor necrosis factor receptor superfamily, member 21	0
1499	O9EQ09	Olr1	oxidized low density lipoprotein (lectin-like) receptor 1	0
1500	O9EQJ0	Tpchn1	two pore channel 1	0
1501	O9EQK7	Icmt	isoprenylcysteine carboxyl methyltransferase	0
1502	O9EOM3	Nkx2-4	NK2 transcription factor related, locus 4 (Drosophila)	0
1503	O9ER16	Rdh14	retinol dehydrogenase 14 (all-trans and 9-cis)	0
1504	O9ERV1	Mkrm2	makorin, ring finger protein, 2	0
1505	O9ES88	Slc13a2	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2	0
1506	O9ESE1	Lrba	LPS-responsive beige-like anchor	0
1507	O9ESG6	P2ry14	purinergic receptor P2Y, G-protein coupled, 14	0
1508	O9ET37	Slc5a4a	solute carrier family 5, member 4a	0
1509	O9JHB2	Olfir19	olfactory receptor 19	0
1510	O9JHC9	Erf2	E74-like factor 2	0
1511	O9JH17	Exosc9	exosome component 9	0
1512	O9JHP7	Kdelc1	KDEL (Lys-Asp-Glu-Leu) containing 1	0
1513	O9JI38	Pus3	pseudouridine synthase 3	0
1514	O9JI57	Gtf2ird1	general transcription factor II I repeat domain-containing 1	0
1515	O9JIM3	IDBG-null	RIKEN cDNA 0610007P08 gene	0
1516	O9JJB9	Ccdc86	coiled-coil domain containing 86	0
1517	O9JIX6	P2rx4	purinergic receptor P2X, ligand-gated ion channel 4	0
1518	O9JYJ3	Smpd3	sphingomyelin phosphodiesterase 3, neutral	0
1519	O9JJZ2	Tuba8	tubulin, alpha 8	0
1520	O9JK45	Kcna5	potassium voltage-gated channel, subfamily O, member 5	0
1521	O9JKV2	Ick	intestinal cell kinase	0
1522	O9JL26	Fmnl1	formin-like 1	0
1523	O9JLN6	Adam28	a disintegrin and metallopeptidase domain 28	0
1524	O9QVY8	Rai2	retinoic acid induced 2	0
1525	O9QXH4	Itaax	integrin alpha X	0
1526	O9QXN0	Shroom3	shroom family member 3	0
1527	O9QXZ6	Slc01a1	solute carrier organic anion transporter family, member 1a1	0
1528	O9QXZ7	Nr2e3	nuclear receptor subfamily 2, group E, member 3	0
1529	O9QY83	Actt7b	actin-like 7b	0
1530	O9QY66	Golaa5	golgi autoantigen, golain subfamily a, 5	0
1531	O9QYV8	Spast	spastin	0
1532	O9QYZ6	Smok2a	sperm motility kinase 2A	0
1533	O9OZB1	Rgs20	regulator of G-protein signaling 20	0

1534	O9OZ05	Chml	choroideremia-like	0
1535	O9OZ08	Slc25a10	solute carrier family 25 (mitochondrial carrier, dicarboxylate transporter), member 10	0
1536	O9OZ18	Serinc1	serine incorporator 1	0
1537	O9OZN0	Fbxo15	F-box protein 15	0
1538	O9R001	Adamts5	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2)	0
1539	O9R0A1	Clcn2	chloride channel 2	0
1540	O9R0H0	Acox1	acyl-Coenzyme A oxidase 1, palmitoyl	0
1541	O9R0L7	Akap8l	A kinase (PRKA) anchor protein 8-like	0
1542	O9R0X2	Adamdec1	ADAM-like, decysin 1	0
1543	O9R1S8	Adam26a	a disintegrin and metallopeptidase domain 26A (testase 3)	0
1544	O9R1J0	Nsdhl	NAD(P) dependent steroid dehydrogenase-like	0
1545	O9R1N9	Col13a1	collagen, type XIII, alpha 1	0
1546	O9R1S8	Capn7	calpain 7	0
1547	O9WTK2	Cdyl	chromodomain protein, Y chromosome-like	0
1548	O9WTK3	Gpaa1	GPI anchor attachment protein 1	0
1549	O9WTK6	Slc22a21	solute carrier family 22 (organic cation transporter), member 21	0
1550	O9WTP7	Ak3	adenylate kinase 3	0
1551	O9WTS2	Fut8	fucosyltransferase 8	0
1552	O9WTS6	Odz3	odd Oz/ten-m homolog 3 (Drosophila)	0
1553	O9WU02	Avpr1b	arginine vasopressin receptor 1B	0
1554	O9WUB7	Clcna	chloride channel Ka	0
1555	O9WUM4	Coro1c	coronin, actin binding protein 1C	0
1556	O9WUS4	Gia10	gap junction protein, alpha 10	0
1557	O9WV04	Kif9	kinesin family member 9	0
1558	O9WV07	Aloxe3	arachidonate lipooxygenase 3	0
1559	O9WV86	Katna1	katanin p60 (ATPase-containing) subunit A1	0
1560	O9WV82	IDBG-null	transducin-like enhancer of split 2, homolog of Drosophila E(spl)	0
1561	O9WVG9	Msl3	male-specific lethal 3 homolog (Drosophila)	0
1562	O9Z0E1	D6Mm5e	DNA segment, Chr 6, Miriam Meisler 5, expressed	0
1563	O9Z0L1	S1pr4	sphingosine-1-phosphate receptor 4	0
1564	O9Z0S1	IDBG-null	bisphosphate 3'-nucleotidase 1	0
1565	O9Z1B3	Plcb1	phospholipase C, beta 1	0
1566	O9Z204	Hnrnpc	heterogeneous nuclear ribonucleoprotein C	0
1567	O9Z280	Pld1	phospholipase D1	0
1568	O9Z2C4	Mttr1	myotubularin related protein 1	0
1569	O9Z2D7	Mbd4	methyl-CpG binding domain protein 4	0
1570	O9Z2G6	Sei1l	sei-1 suppressor of lin-12-like (C. elegans)	0
1571	O9Z2H5	IDBG-null	erythrocyte protein band 4.1-like 1	0
1572	O9Z2I0	Letm1	leucine zipper-EF-hand containing transmembrane protein 1	0
1573	O9Z329	Itpr2	inositol 1,4,5-triphosphate receptor 2	0

Table S2. Proteomics-derived nodes and their respective InnateDB-derived experimentally validated binding partner assemble the Pathogen-response network in Cytoscape

Proteomics-derived nodes		InnateDB-derived interactina partners			
Uniprot ID	Gene ID	InnateDb ID	Gene Symbol	Gene Name	Ensembl Gene ID
A2RSY1	4632411B12Rik	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380
Q8C9S4	A630007B06Rik	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUSG00000021047
Q9D2R0	Aacs	37645	TRAF4	TNF receptor-associated factor 4	ENSG00000076604
Q9D2R0	Aacs	141537	Foxa1	forkhead box A1	ENSMUSG00000035451
P55096	Abcd3	175455	Abcd2	ATP-binding cassette, sub-family D (ALD), member 2	ENSMUSG00000055782
P55096	Abcd3	153430	Abcd1	ATP-binding cassette, sub-family D (ALD), member 1	ENSMUSG00000031378
Q5SWU9	Acaca	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, homolog 1)	ENSMUSG00000020063
Q5SWU9	Acaca	185563	Aicda	activation-induced cytidine deaminase	ENSMUSG00000040627
Q5SWU9	Acaca	133323	Top2b	topoisomerase (DNA) II beta	ENSMUSG00000017485
Q5SWU9	Acaca	172112	Rad50	RAD50 homolog (S. cerevisiae)	ENSMUSG00000020380
Q5SWU9	Acaca	171022	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of gene control	ENSMUSG00000031715
Q5SWU9	Acaca	194044	Gcn1l1	GCN1 general control of amino-acid synthesis 1-like 1 (yeast)	ENSMUSG00000041638
Q5SWU9	Acaca	160136	Cct3	chaperonin containing Tcp1, subunit 3 (gamma)	ENSMUSG00000001416
Q5SWU9	Acaca	176091	Tnp1	transportin 1	ENSMUSG00000009470
Q5SWU9	Acaca	199178	Tubb3	tubulin, beta 3	ENSMUSG00000062380
P50544	Acadvl	214604	Socs3	suppressor of cytokine signaling 3	ENSMUSG00000053113
Q91V92	Acly	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein 1	ENSMUSG00000020849
P62737	Acta2	174739	Sv2a	synaptic vesicle glycoprotein 2 a	ENSMUSG00000038486
P62737	Acta2	205183	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	ENSMUSG00000035152
P62737	Acta2	180315	Ap2a1	adaptor protein complex AP-2, alpha 1 subunit	ENSMUSG00000060279
P62737	Acta2	159551	Dnm1	dynamain 1	ENSMUSG00000026825
P62737	Acta2	207019	Cltc	clathrin, heavy polypeptide (Hc)	ENSMUSG00000047126
P62737	Acta2	143791	Ap1b1	adaptor protein complex AP-1, beta 1 subunit	ENSMUSG00000009090
P62737	Acta2	135538	Syn1	synapsin I	ENSMUSG00000037217
P62737	Acta2	210393	Stx1b	syntaxin 1B	ENSMUSG00000030806
P62737	Acta2	189699	Snap91	synaptosomal-associated protein 91	ENSMUSG00000033419
P62737	Acta2	213066	Nsf	N-ethylmaleimide sensitive fusion protein	ENSMUSG00000034187
P62737	Acta2	27257	LRRK2	leucine-rich repeat kinase 2	ENSG00000188906
P62737	Acta2	132306	Cadps	Ca2+-dependent secretion activator	ENSMUSG00000054423
P62737	Acta2	154306	Casp3	caspase 3	ENSMUSG00000031628
P62737	Acta2	178813	Casp7	caspase 7	ENSMUSG00000025076
P63268	Actq2	186954	Ldha	lactate dehydrogenase A	ENSMUSG00000063229
P63268	Actq2	158996	Hdgp	hepatoma-derived growth factor	ENSMUSG00000004897
P63268	Actq2	208186	Trrap	transformation/transcription domain-associated protein	ENSMUSG00000045482
P63268	Actq2	190143	Ep400	E1A binding protein p400	ENSMUSG00000029505
P63268	Actq2	132192	Kat5	K(lysine) acetyltransferase 5	ENSMUSG00000024926
P63268	Actq2	179881	Dmap1	DNA methyltransferase 1-associated protein 1	ENSMUSG00000009640
P63268	Actq2	182674	Ciapin1	cytokine induced apoptosis inhibitor 1	ENSMUSG00000031781
P63268	Actq2	135252	Brd8	bromodomain containing 8	ENSMUSG00000003778
P63268	Actq2	190649	Morf4l1	mortality factor 4 like 1	ENSMUSG00000062270
P63268	Actq2	207470	Actb	actin, beta	ENSMUSG00000029580
P63268	Actq2	136942	Actl6a	actin-like 6A	ENSMUSG00000027671
P63268	Actq2	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
P63268	Actq2	129480	Inq3	inhibitor of growth family, member 3	ENSMUSG00000029670
P63268	Actq2	102316	VPS72	vacuolar protein sorting 72 homolog (S. cerevisiae)	ENSG00000163159
P63268	Actq2	127970	Epc1	enhancer of polycomb homolog 1 (Drosophila)	ENSMUSG00000002420
P63268	Actq2	168697	Epc2	enhancer of polycomb homolog 2 (Drosophila)	ENSMUSG00000069495
Q8R259	Actr8	78880	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	ENSG00000204217
Q8R259	Actr8	158574	Bmpr2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	ENSMUSG00000067336
Q61824	Adam12	107634	ACTN2	actinin, alpha 2	ENSG00000077522
Q61824	Adam12	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG00000059923
Q61824	Adam12	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUSG00000021047
Q61824	Adam12	151540	Yes1	Yamaguchi sarcoma viral (v-yes) oncogene homolog 1	ENSMUSG00000014932
Q61824	Adam12	174586	Sh3pxd2a	SH3 and PX domains 2A	ENSMUSG00000053617
Q61072	Adam9	190993	Pacsin3	protein kinase C and casein kinase substrate in neurons 3	ENSMUSG00000027257
Q61072	Adam9	160703	Sh3gl2	SH3-domain GRB2-like 2	ENSMUSG00000028488
Q61072	Adam9	79064	ABI2	abl-interactor 2	ENSG00000138443
P59511	Adams20	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q8VHH7	Adcy3	49995	MPDZ	multiple PDZ domain protein	ENSG00000107186
Q8VHH7	Adcy3	144171	Stoml3	stomatolysin (Epb7.2)-like 3	ENSMUSG00000027744
P51829	Adcy7	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q9Z248	Aebp2	198609	Eed	embryonic ectoderm development	ENSMUSG00000030619
Q9Z248	Aebp2	187572	Mtf2	metal response element binding transcription factor 2	ENSMUSG00000029267
Q9Z248	Aebp2	190814	Rbbp4	retinoblastoma binding protein 4	ENSMUSG00000057236
Q9Z248	Aebp2	211954	Ezh1	enhancer of zeste homolog 1 (Drosophila)	ENSMUSG00000006920
Q9Z248	Aebp2	203783	Suz12	suppressor of zeste 12 homolog (Drosophila)	ENSMUSG00000017548
Q9Z248	Aebp2	147776	Jarid2	jumonji, AT rich interactive domain 2	ENSMUSG00000038518
Q9Z248	Aebp2	159635	Stk38	serine/threonine kinase 38	ENSMUSG00000024006
Q9Z248	Aebp2	178190	Morc3	microrchidia 3	ENSMUSG00000039456
Q9Z248	Aebp2	165162	BC018507	cDNA sequence BC018507	ENSMUSG00000034525
Q9Z248	Aebp2	198429	Stk38l	serine/threonine kinase 38 like	ENSMUSG00000016300
Q9Z248	Aebp2	136486	Bclaf1	BCL2-associated transcription factor 1	ENSMUSG00000037608
Q9Z248	Aebp2	188132	Thrap3	thyroid hormone receptor associated protein 3	ENSMUSG00000043962
Q9Z248	Aebp2	163429	Ell	elongation factor RNA polymerase II	ENSMUSG00000070002
Q9Z248	Aebp2	175374	Trim35	tripartite motif-containing 35	ENSMUSG00000022043
Q9Z248	Aebp2	153367	Setx	senataxin	ENSMUSG00000043535
Q9Z248	Aebp2	143636	Ezh2	enhancer of zeste homolog 2 (Drosophila)	ENSMUSG00000029687
Q9Z248	Aebp2	183758	Rbbp7	retinoblastoma binding protein 7	ENSMUSG00000031353
Q8K2K6	Aqf1	174308	Eps15	epidermal growth factor receptor pathway substrate 15	ENSMUSG00000028552
O88312	Aqr2	165108	Anxa4	annexin A4	ENSMUSG00000029994
O88312	Aqr2	208372	Dstn	desmin	ENSMUSG00000015932
O88312	Aqr2	214220	Slc9a3r1	solute carrier family 9 (sodium/hydrogen exchanger), member 3	ENSMUSG00000020733
O88312	Aqr2	134163	Ezr	ezipin	ENSMUSG00000052397

O88312	Aqr2	143108	Anxa13	annexin A13	ENSMUSG000000055114
O88312	Aqr2	160005	Lgals2	lectin, galactose-binding, soluble 2	ENSMUSG000000043501
O88312	Aqr2	180747	Ces1e	carboxylesterase 1E	ENSMUSG000000061959
O88312	Aqr2	131972	Cfi1	cofilin 1, non-muscle	ENSMUSG000000056201
O88312	Aqr2	164732	Lgals4	lectin, galactose binding, soluble 4	ENSMUSG000000053964
O88312	Aqr2	195117	Pfn1	profilin 1	ENSMUSG000000018293
O88312	Aqr2	147795	Ppia	peptidylprolyl isomerase A	ENSMUSG000000071866
O88312	Aqr2	185682	Abcq3	ATP-binding cassette, sub-family G (WHITE), member 3	ENSMUSG000000029299
O88312	Aqr2	198471	Cdc42	cell division cycle 42 homolog (S. cerevisiae)	ENSMUSG00000006699
Q8VC19	Alas1	136414	Egr1	early growth response 1	ENSMUSG000000038418
Q8VC19	Alas1	153395	Nab1	Nqfi-A binding protein 1	ENSMUSG00000002881
Q8VC19	Alas1	195715	Nab2	Nqfi-A binding protein 2	ENSMUSG000000025402
P97793	Alk	132777	Zc3hc1	zinc finger, C3HC type 1	ENSMUSG000000039130
Q8K371	Amotl2	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG000000024406
P53995	Anapc1	12280	ANAPC4	anaphase promoting complex subunit 4	ENSG000000053900
P53995	Anapc1	93182	ANAPC2	anaphase promoting complex subunit 2	ENSG000000176248
P53995	Anapc1	46810	CDC23	cell division cycle 23 homolog (S. cerevisiae)	ENSG000000094880
P53995	Anapc1	53861	CDC16	cell division cycle 16 homolog (S. cerevisiae)	ENSG000000130177
P53995	Anapc1	77869	ANAPC16	anaphase promoting complex subunit 16	ENSG000000166295
P53995	Anapc1	81571	CDC26	cell division cycle 26 homolog (S. cerevisiae)	ENSG000000176386
P53995	Anapc1	39771	ANAPC10	anaphase promoting complex subunit 10	ENSG000000164162
P53995	Anapc1	57027	ANAPC7	anaphase promoting complex subunit 7	ENSG000000196510
P53995	Anapc1	61638	ANAPC5	anaphase promoting complex subunit 5	ENSG000000089053
P53995	Anapc1	97410	CDC20	cell division cycle 20 homolog (S. cerevisiae)	ENSG000000117399
P53995	Anapc1	65939	ANAPC1	anaphase promoting complex subunit 1	ENSG000000153107
P53995	Anapc1	6103	BUB1B	budding uninhibited by benzimidazoles 1 homolog beta (y	ENSG000000156970
P53995	Anapc1	46694	KIAA1430	KIAA1430	ENSG000000164323
P53995	Anapc1	55802	CDC27	cell division cycle 27 homolog (S. cerevisiae)	ENSG000000004897
Q9WVM3	Anapc7	136530	Pik3ca	phosphatidylinositol 3-kinase, catalytic, alpha polypeptide	ENSMUSG000000027665
Q9WVM3	Anapc7	66003	PIK3CA	phosphoinositide-3-kinase, catalytic, alpha polypeptide	ENSG000000121879
Q9WVM3	Anapc7	127729	Creml	cAMP responsive element modulator	ENSMUSG000000063889
Q9WVM3	Anapc7	166231	Creb3l4	cAMP responsive element binding protein 3-like 4	ENSMUSG000000027938
Q8C016	Ankrd58	174161	Tcf3	transcription factor 3	ENSMUSG000000020167
P35585	Ap1m1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG000000028717
P35585	Ap1m1	191480	Ap1g1	adaptor protein complex AP-1, gamma 1 subunit	ENSMUSG000000031731
P17427	Ap2a2	174308	Eps15	epidermal growth factor receptor pathway substrate 15	ENSMUSG000000028552
P17427	Ap2a2	12921	AMPH	amphiphysin	ENSG000000078053
P17427	Ap2a2	1770	SYNJ1	synaptotagmin 1	ENSG000000159082
P17427	Ap2a2	189699	Snap91	synaptosomal-associated protein 91	ENSMUSG000000033419
P17427	Ap2a2	132340	Amph	amphiphysin	ENSMUSG000000021314
P17427	Ap2a2	159551	Dnm1	dynamin 1	ENSMUSG000000026825
P17427	Ap2a2	144450	Ap2m1	adaptor protein complex AP-2, mu1	ENSMUSG000000022841
P17427	Ap2a2	27257	LRRK2	leucine-rich repeat kinase 2	ENSG000000188906
Q9DBG3	Ap2b1	104856	FASLG	Fas ligand (TNF superfamily, member 6)	ENSG000000117560
Q9DBG3	Ap2b1	183625	Snx18	sorting nexin 18	ENSMUSG000000042364
Q9DBG3	Ap2b1	168133	Pacsin2	protein kinase C and casein kinase substrate in neurons 2	ENSMUSG000000016664
Q9DBG3	Ap2b1	190993	Pacsin3	protein kinase C and casein kinase substrate in neurons 3	ENSMUSG000000027257
Q9DBG3	Ap2b1	177962	Pip5k1c	phosphatidylinositol-4-phosphate 5-kinase, type 1 gamma	ENSMUSG000000034902
Q9DBG3	Ap2b1	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor	ENSG000000145335
Q9DBG3	Ap2b1	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG000000027273
Q9DBG3	Ap2b1	183835	Nckap1	NCK-associated protein 1	ENSMUSG000000027002
Q9DBG3	Ap2b1	179812	Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	ENSMUSG000000033161
Q9DBG3	Ap2b1	168772	Kif5c	kinesin family member 5C	ENSMUSG000000026764
Q9DBG3	Ap2b1	127944	Kif5b	kinesin family member 5B	ENSMUSG000000006740
Q9DBG3	Ap2b1	180315	Ap2a1	adaptor protein complex AP-2, alpha 1 subunit	ENSMUSG000000060279
Q9DBG3	Ap2b1	131026	Pacs1	phosphofurin acidic cluster sorting protein 1	ENSMUSG000000024855
Q9DBG3	Ap2b1	200612	Mtap6	microtubule-associated protein 6	ENSMUSG000000055407
Q9DBG3	Ap2b1	181984	Tuba1a	tubulin, alpha 1A	ENSMUSG000000072235
Q9DBG3	Ap2b1	170381	Tuba4a	tubulin, alpha 4A	ENSMUSG000000026202
Q9DBG3	Ap2b1	198630	Hspq2	perlecan (heparan sulfate proteoglycan 2)	ENSMUSG000000028763
Q9DBG3	Ap2b1	262062	Gm3272	predicted pseudogene 3272	ENSMUSG000000078967
Q9DBG3	Ap2b1	129240	Syp	synaptophysin	ENSMUSG000000031144
Q9DBG3	Ap2b1	143914	Tubb2a	tubulin, beta 2A	ENSMUSG000000058672
Q9DBG3	Ap2b1	191004	Zfhx3	zinc finger homeobox 3	ENSMUSG000000038872
Q9DBG3	Ap2b1	187917	Atp6v0d1	ATPase, H ⁺ transporting, lysosomal V0 subunit D1	ENSMUSG000000013160
Q9DBG3	Ap2b1	179144	Tubb5	tubulin, beta 5	ENSMUSG000000001525
Q9DBG3	Ap2b1	162096	Slc2a8	solute carrier family 2, (facilitated glucose transporter), m	ENSMUSG000000026791
Q9DBG3	Ap2b1	72930	ACVR1	activin A receptor, type I	ENSG000000115170
Q9DBG3	Ap2b1	28871	SMURF1	N-ethylmaleimide sensitive fusion protein 1	ENSG000000198742
Q9DBG3	Ap2b1	3485	SMAD4	SMAD family member 4	ENSG000000141646
Q9DBG3	Ap2b1	174308	Eps15	epidermal growth factor receptor pathway substrate 15	ENSMUSG000000028552
Q9DBG3	Ap2b1	193317	Dlg4	discs, large homolog 4 (Drosophila)	ENSMUSG000000020886
Q9DBG3	Ap2b1	174739	Sv2a	synaptic vesicle glycoprotein 2 a	ENSMUSG000000038486
Q9DBG3	Ap2b1	159551	Dnm1	dynamin 1	ENSMUSG000000026825
Q9DBG3	Ap2b1	207019	Cltc	clathrin, heavy polypeptide (Hc)	ENSMUSG0000000047126
Q9DBG3	Ap2b1	143791	Ap1b1	adaptor protein complex AP-1, beta 1 subunit	ENSMUSG00000009090
Q9DBG3	Ap2b1	135538	Syn1	synapsin I	ENSMUSG000000037217
Q9DBG3	Ap2b1	210393	Stx1b	syntaxin 1B	ENSMUSG000000030806
Q9DBG3	Ap2b1	189699	Snap91	synaptosomal-associated protein 91	ENSMUSG000000033419
Q9DBG3	Ap2b1	213066	Nsf	N-ethylmaleimide sensitive fusion protein	ENSMUSG000000034187
Q9DBG3	Ap2b1	27257	LRRK2	leucine-rich repeat kinase 2	ENSG000000188906
Q9DBG3	Ap2b1	159493	Acta2	actin, alpha 2, smooth muscle, aorta	ENSMUSG000000035783
Q9DBG3	Ap2b1	132306	Cadps	Ca ²⁺ -dependent secretion activator	ENSMUSG000000054423
Q03157	Ap1p1	169389	Dab1	disabled homolog 1 (Drosophila)	ENSMUSG000000028519
Q03157	Ap1p1	142480	Pcdh18	protocadherin 18	ENSMUSG000000037892
Q03157	Ap1p1	172954	App	amyloid beta (A4) precursor protein	ENSMUSG000000022892
Q03157	Ap1p1	196096	Rasa1	RAS protein activator like 1 (GAP1 like)	ENSMUSG000000029602
Q03157	Ap1p1	150591	Prune2	prune homolog 2 (Drosophila)	ENSMUSG000000039126
Q03157	Ap1p1	183015	Ppap2a	phosphatidic acid phosphatase type 2A	ENSMUSG000000021759

Q03157	Aplp1	169987	Ppap2c	phosphatidic acid phosphatase type 2C	ENSMUSG00000052151
Q03157	Aplp1	204766	Vgf	VGF nerve growth factor inducible	ENSMUSG00000037428
Q03157	Aplp1	209151	Cst3	cystatin C	ENSMUSG00000027447
Q03157	Aplp1	185288	Sparcl1	SPARC-like 1	ENSMUSG00000029309
Q03157	Aplp1	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
Q03157	Aplp1	155394	Thy1	thymus cell antigen 1, theta	ENSMUSG00000032011
Q03157	Aplp1	207129	Spon1	spondin 1, (F-spondin) extracellular matrix protein	ENSMUSG00000038156
Q03157	Aplp1	146661	Aplp2	amyloid beta (A4) precursor-like protein 2	ENSMUSG00000031996
Q03157	Aplp1	211078	Oat	ornithine aminotransferase	ENSMUSG00000030934
Q03157	Aplp1	151663	Mat1a	methionine adenosyltransferase I, alpha	ENSMUSG00000037798
Q03157	Aplp1	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
Q03157	Aplp1	131138	Calu	calumenin	ENSMUSG00000029767
Q03157	Aplp1	152814	Ppp1r2	protein phosphatase 1, regulatory (inhibitor) subunit 2	ENSMUSG00000047714
Q03157	Aplp1	196143	Epb4.1l3	erythrocyte protein band 4.1-like 3	ENSMUSG00000024044
Q03157	Aplp1	178669	Ppib	peptidylprolyl isomerase B	ENSMUSG00000032383
Q03157	Aplp1	174959	Calr	calreticulin	ENSMUSG0000003814
Q03157	Aplp1	182078	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	ENSMUSG00000020048
Q03157	Aplp1	168591	Canx	calnexin	ENSMUSG00000020368
Q03157	Aplp1	176351	Cntn1	contactin 1	ENSMUSG00000055022
Q03157	Aplp1	163105	Ncam1	neuronal cell adhesion molecule 1	ENSMUSG00000039542
Q03157	Aplp1	168462	Rcn2	reticulocalbin 2	ENSMUSG00000032320
Q03157	Aplp1	205238	Clstn1	calsynenin 1	ENSMUSG00000039953
Q03157	Aplp1	182141	Gabbr1	gamma-aminobutyric acid (GABA) B receptor, 1	ENSMUSG00000024462
Q03157	Aplp1	157064	Hyou1	hypoxia up-regulated 1	ENSMUSG00000032115
Q03157	Aplp1	171290	Hspa4	heat shock protein 4	ENSMUSG00000020361
Q03157	Aplp1	175327	Sraap3	SLIT-ROBO Rho GTPase activating protein 3	ENSMUSG00000030257
Q03157	Aplp1	141546	Ganab	alpha glucosidase 2 alpha neutral subunit	ENSMUSG00000071650
Q03157	Aplp1	192274	Nfasc	neurofascin	ENSMUSG00000026442
Q03157	Aplp1	178513	Atp2b2	ATPase, Ca++ transporting, plasma membrane 2	ENSMUSG00000030302
Q03157	Aplp1	146362	Erp44	endoplasmic reticulum protein 44	ENSMUSG00000028343
Q03157	Aplp1	168858	Linqo1	leucine rich repeat and Iq domain containing 1	ENSMUSG00000049556
Q03157	Aplp1	186875	Clstn3	calsynenin 3	ENSMUSG00000008153
Q03157	Aplp1	260830	Prnp	prion protein	ENSMUSG00000079037
Q03157	Aplp1	158252	Cpe	carboxypeptidase E	ENSMUSG00000037852
Q9WW31	Arc	193317	Dlq4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
Q62431	Arid3a	174501	Nacc1	nucleus accumbens associated 1, BEN and BTB (POZ) domain	ENSMUSG00000001910
Q62431	Arid3a	186053	Myod1	myogenic differentiation 1	ENSMUSG00000009471
Q62431	Arid3a	175693	Smad3	MAD homolog 3 (Drosophila)	ENSMUSG00000032402
Q62431	Arid3a	190185	Sfp1	SFFV proviral integration 1	ENSMUSG00000002111
Q921N7	Arid3b	174501	Nacc1	nucleus accumbens associated 1, BEN and BTB (POZ) domain	ENSMUSG00000001910
Q921N7	Arid3b	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG00000024406
Q921K5	Arih1	138347	Ube2l3	ubiquitin-conjugating enzyme E2L 3	ENSMUSG00000038965
Q9JM93	Arl6ip4	170048	Arl6	ADP-ribosylation factor-like 6	ENSMUSG00000022722
Q61324	Arnt2	178400	Sim2	single-minded homolog 2 (Drosophila)	ENSMUSG00000062713
Q61324	Arnt2	134957	Ahr	aryl-hydrocarbon receptor	ENSMUSG000000019256
Q8K0L0	Asb2	144553	Tceb2	transcription elongation factor B (SIII), polypeptide 2	ENSMUSG00000055839
Q8K0L0	Asb2	249823	Tceb1	transcription elongation factor B (SIII), polypeptide 1	ENSMUSG00000079658
Q8CDM1	Atad2	137097	Hist1h4b	histone cluster 1, H4b	ENSMUSG00000069266
Q9D906	Atq7	94856	ATG5	ATG5 autophagy related 5 homolog (S. cerevisiae)	ENSG00000057663
Q9D906	Atq7	37900	ATG12	ATG12 autophagy related 12 homolog (S. cerevisiae)	ENSG00000145782
Q9D906	Atq7	32027	ATG10	ATG10 autophagy related 10 homolog (S. cerevisiae)	ENSG00000152348
Q9D906	Atq7	193040	Gabarap	gamma-aminobutyric acid receptor associated protein	ENSMUSG00000018567
Q9D906	Atq7	146271	Psm3	proteasome (prosome, macropain) subunit, alpha type 3	ENSMUSG00000060073
Q9D906	Atq7	196690	Map1lc3b	microtubule-associated protein 1 light chain 3 beta	ENSMUSG00000031812
Q9D906	Atq7	145432	Atg12	autophagy-related 12 (yeast)	ENSMUSG000000032905
Q9D906	Atq7	193757	Gabarapl2	gamma-aminobutyric acid (GABA) A receptor-associated polymerase (DNA directed), delta 2, regulatory subunit	ENSMUSG00000031950
P56480	Atp5b	145597	Pold2	polymerase (DNA directed), delta 2, regulatory subunit	ENSMUSG00000020471
P56480	Atp5b	191542	Cct2	chaperonin containing Tcp1, subunit 2 (beta)	ENSMUSG00000034024
P56480	Atp5b	173563	Cct8	chaperonin containing Tcp1, subunit 8 (theta)	ENSMUSG00000025613
P56480	Atp5b	170572	Selenbp2	selenium binding protein 2	ENSMUSG00000068877
P56480	Atp5b	168985	Aldh1l1	aldehyde dehydrogenase 1 family, member L1	ENSMUSG00000030088
P56480	Atp5b	132917	Cct5	chaperonin containing Tcp1, subunit 5 (epsilon)	ENSMUSG00000022234
P56480	Atp5b	88484	SET	SET nuclear oncogene	ENSG00000119335
P56480	Atp5b	153613	Hspa8	heat shock protein 8	ENSMUSG00000015656
P56480	Atp5b	207470	Actb	actin, beta	ENSMUSG000000029580
P56480	Atp5b	160648	Fbp1	fructose bisphosphatase 1	ENSMUSG00000069805
P56480	Atp5b	147385	Hnrnpa2b1	heterogeneous nuclear ribonucleoprotein A2/B1	ENSMUSG00000004980
P56480	Atp5b	175870	Mta1	metastasis associated 1	ENSMUSG00000021144
P56480	Atp5b	178482	Alb	albumin	ENSMUSG00000029368
P56480	Atp5b	136275	Pygm	muscle glycogen phosphorylase	ENSMUSG00000032648
P56480	Atp5b	137484	Tcp1	t-complex protein 1	ENSMUSG00000068039
P56480	Atp5b	209641	Csnk2a1	casein kinase 2, alpha 1 polypeptide	ENSMUSG00000074698
P56480	Atp5b	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
P56480	Atp5b	140436	Dnm2	dynamin 2	ENSMUSG00000033335
P56480	Atp5b	165898	Ftcd	formiminotransferase cyclodeaminase	ENSMUSG00000001155
P56480	Atp5b	152187	Eif2s1	eukaryotic translation initiation factor 2, subunit 1 alpha	ENSMUSG00000021116
P56480	Atp5b	145944	Gm5506	predicted gene 5506	ENSMUSG00000059040
P56480	Atp5b	145251	Pdpk1	3-phosphoinositide dependent protein kinase 1	ENSMUSG00000024122
P56480	Atp5b	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
P56480	Atp5b	193222	Traf6	TNF receptor-associated factor 6	ENSMUSG00000027164
P56480	Atp5b	155224	Set	SET nuclear oncogene	ENSMUSG00000054766
P15920	Atp6v0a2	184401	Cyth2	cytohesin 2	ENSMUSG00000003269
P63082	Atp6v0c	145251	Pdpk1	3-phosphoinositide dependent protein kinase 1	ENSMUSG00000024122
P63082	Atp6v0c	177451	Atp6v1g2	ATPase, H+ transporting, lysosomal V1 subunit G2	ENSMUSG00000024403
P63082	Atp6v0c	155483	Atp6v1g1	ATPase, H+ transporting, lysosomal V1 subunit G1	ENSMUSG00000039105
P50516	Atp6v1a	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor protein)	ENSG00000145335
P50516	Atp6v1a	193222	Traf6	TNF receptor-associated factor 6	ENSMUSG00000027164
P50516	Atp6v1a	207470	Actb	actin, beta	ENSMUSG00000029580
P50516	Atp6v1a	165033	Actn4	actinin alpha 4	ENSMUSG00000054808

P50516	Atp6v1a	153380	Actn1	actinin, alpha 1	ENSMUSG00000015143
Q921G3	Atp6v1c1	144539	Arf6	ADP-ribosylation factor 6	ENSMUSG00000044147
Q8BMG1	Atrip	191646	Atr	ataxia telangiectasia and Rad3 related	ENSMUSG00000032409
Q77QH0	Atxn2l	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUSG00000021047
O88398	Avil	200571	Crk	v-crk sarcoma virus CT10 oncogene homolog (avian)	ENSMUSG00000017776
O88398	Avil	211991	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000018326
O88398	Avil	153069	Plec	plectin	ENSMUSG00000022565
O88398	Avil	152570	Ywhah	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000018965
O88398	Avil	135418	Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000022285
O88398	Avil	130670	Ywhaq	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG000000076432
O88398	Avil	204179	Ywhag	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG000000051391
O88398	Avil	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG000000020849
O88398	Avil	164118	Pik3r2	phosphatidylinositol 3-kinase, regulatory subunit, polypep	ENSMUSG000000031834
O88398	Avil	155970	Cbl	Casitas B-lineage lymphoma	ENSMUSG000000034342
Q00993	Axl	176038	Ifnar1	interferon (alpha and beta) receptor 1	ENSMUSG000000022967
Q00993	Axl	136731	Il15ra	interleukin 15 receptor, alpha chain	ENSMUSG000000023206
Q00993	Axl	163447	Il2rg	interleukin 2 receptor, gamma chain	ENSMUSG000000031304
Q00993	Axl	164118	Pik3r2	phosphatidylinositol 3-kinase, regulatory subunit, polypep	ENSMUSG000000031834
Q00993	Axl	152236	Shc3	src homology 2 domain-containing transforming protein C	ENSMUSG000000021448
Q60739	Bag1	185673	Bcl2	B-cell leukemia/lymphoma 2	ENSMUSG000000057329
Q60739	Bag1	213115	Mapt	microtubule-associated protein tau	ENSMUSG000000018411
Q921R2	Bag6	193222	Traf6	TNF receptor-associated factor 6	ENSMUSG000000027164
Q921R2	Bag6	185529	Tnfrsf11a	tumor necrosis factor receptor superfamily, member 11a	ENSMUSG000000026321
Q921R2	Bag6	186305	Gnai3	guanine nucleotide binding protein (G protein), alpha inhib	ENSMUSG000000000001
Q921R2	Bag6	96837	CAP1	CAP, adenylate cyclase-associated protein 1 (yeast)	ENSG000000131236
Q921R2	Bag6	185836	Amelx	amelogenin X chromosome	ENSMUSG000000031354
Q497V6	Bahd1	212520	Hdac5	histone deacetylase 5	ENSMUSG000000008855
Q497V6	Bahd1	188607	Sp1	trans-acting transcription factor 1	ENSMUSG00000001280
Q497V6	Bahd1	147481	Cbx3	chromobox homolog 3 (Drosophila HP1 gamma)	ENSMUSG000000029836
Q497V6	Bahd1	158060	Mbd1	methyl-CpG binding domain protein 1	ENSMUSG000000024561
Q80VH0	Bank1	163730	Traf1	TNF receptor-associated factor 1	ENSMUSG000000026875
Q80VH0	Bank1	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG000000004040
Q99PU7	Bag1	52172	BRCA1	breast cancer 1, early onset	ENSG00000012048
Q99PU7	Bag1	38830	BAP1	BRCA1 associated protein-1 (ubiquitin carboxy-terminal h	ENSG000000163930
Q99PU7	Bag1	34785	ASXL2	additional sex combs like 2 (Drosophila)	ENSG000000143970
Q99PU7	Bag1	90667	HCFC1	host cell factor C1 (VP16-accessory protein)	ENSG000000172534
Q99PU7	Bag1	65101	ASXL1	additional sex combs like 1 (Drosophila)	ENSG000000171456
Q9CWF6	Bbs2	130227	Bbs1	Bardet-Biedl syndrome 1 (human)	ENSMUSG000000006464
Q9CWF6	Bbs2	172547	Bbs4	Bardet-Biedl syndrome 4 (human)	ENSMUSG000000025235
Q9CWF6	Bbs2	138825	Bbs7	Bardet-Biedl syndrome 7 (human)	ENSMUSG000000037325
Q61140	Bcar1	44570	SRCIN1	SRC kinase signaling inhibitor 1	ENSG000000017373
Q61140	Bcar1	197036	Stat2	signal transducer and activator of transcription 2	ENSMUSG000000040033
Q61140	Bcar1	210259	Srcin1	SRC kinase signaling inhibitor 1	ENSMUSG000000038453
Q61140	Bcar1	148322	Ptk2	PTK2 protein tyrosine kinase 2	ENSMUSG000000022607
Q61140	Bcar1	144629	Fyn	Fyn proto-oncogene	ENSMUSG0000000019843
Q61140	Bcar1	205088	Nphp1	nephronophthisis 1 (juvenile) homolog (human)	ENSMUSG000000027378
Q61140	Bcar1	128365	Lyn	Yamaquchi sarcoma viral (v-yes-1) oncogene homolog	ENSMUSG000000042228
Q61140	Bcar1	80957	PTPN1	protein tyrosine phosphatase, non-receptor type 1	ENSG000000196396
Q61140	Bcar1	200571	Crk	v-crk sarcoma virus CT10 oncogene homolog (avian)	ENSMUSG000000017776
Q61140	Bcar1	193200	Nck1	non-catalytic region of tyrosine kinase adaptor protein 1	ENSMUSG000000032475
P41183	Bcl6	158082	Ppard	peroxisome proliferator activator receptor delta	ENSMUSG000000002250
P41183	Bcl6	167001	Gzmb	granzyme B	ENSMUSG000000015437
P41183	Bcl6	196509	Irf8	interferon regulatory factor 8	ENSMUSG0000000041515
P41183	Bcl6	204473	Ccl2	chemokine (C-C motif) ligand 2	ENSMUSG000000035385
P41183	Bcl6	144970	Il6	interleukin 6	ENSMUSG0000000025746
P41183	Bcl6	205910	Il1a	interleukin 1 alpha	ENSMUSG000000027399
P41183	Bcl6	185535	Csf1	colony stimulating factor 1 (macrophage)	ENSMUSG000000014599
P41183	Bcl6	193997	Rplp0	ribosomal protein, large, P0	ENSMUSG000000067274
P41183	Bcl6	211937	Ifitm1	interferon induced transmembrane protein 1	ENSMUSG0000000025491
P41183	Bcl6	158624	Batf	basic leucine zipper transcription factor, ATF-like	ENSMUSG000000034266
P41183	Bcl6	193813	Bcl6b	B-cell CLL/lymphoma 6, member B	ENSMUSG000000000317
Q921K9	Bcl7b	62116	BCL7A	B-cell CLL/lymphoma 7A	ENSG000000110987
Q921K9	Bcl7b	19936	BCL7B	B-cell CLL/lymphoma 7B	ENSG000000106635
Q921K9	Bcl7b	99249	PHF10	PHD finger protein 10	ENSG000000130024
Q921K9	Bcl7b	66303	ACTL6A	actin-like 6A	ENSG000000136518
Q921K9	Bcl7b	40152	SMARCC2	SWI/SNF related, matrix associated, actin dependent regu	ENSG000000139613
Q921K9	Bcl7b	44200	SMARCA2	SWI/SNF related, matrix associated, actin dependent regu	ENSG000000080503
Q921K9	Bcl7b	39289	PBRM1	polybromo 1	ENSG000000163939
Q921K9	Bcl7b	63787	SMARCD2	SWI/SNF related, matrix associated, actin dependent regu	ENSG000000108604
Q921K9	Bcl7b	32344	SMARCD1	SWI/SNF related, matrix associated, actin dependent regu	ENSG000000066117
Q921K9	Bcl7b	2584	SMARCB1	SWI/SNF related, matrix associated, actin dependent regu	ENSG000000099956
Q921K9	Bcl7b	31858	SMARCC1	SWI/SNF related, matrix associated, actin dependent regu	ENSG000000173473
Q921K9	Bcl7b	28398	ARID2	AT rich interactive domain 2 (ARID, RFX-like)	ENSG000000189079
Q921K9	Bcl7b	94691	ARID1A	AT rich interactive domain 1A (SWI-like)	ENSG000000117713
Q921K9	Bcl7b	47847	SMARCE1	SWI/SNF related, matrix associated, actin dependent regu	ENSG000000073584
Q921K9	Bcl7b	98322	ARID1B	AT rich interactive domain 1B (SWI1-like)	ENSG000000049618
Q921K9	Bcl7b	1783	SS18	synovial sarcoma translocation, chromosome 18	ENSG000000141380
Q921K9	Bcl7b	28592	SMARCA4	SWI/SNF related, matrix associated, actin dependent regu	ENSG000000127616
Q921K9	Bcl7b	30500	BRD7	bromodomain containing 7	ENSG000000166164
Q921K9	Bcl7b	56871	DPF2	D4, zinc and double PHD fingers family 2	ENSG000000133884
Q67FY2	Bcl9l	27347	CTNNB1	catenin (cadherin-associated protein), beta 1, 88kDa	ENSG000000168036
Q67FY2	Bcl9l	101829	BCL9	B-cell CLL/lymphoma 9	ENSG000000116128
Q9QUN3	Blnk	196950	Banp	BTG3 associated nuclear protein	ENSMUSG000000025316
Q9QUN3	Blnk	191455	Sh3q1l	SH3-domain GRB2-like 1	ENSMUSG000000003200
Q9QUN3	Blnk	182475	Sh3kbp1	SH3-domain kinase binding protein 1	ENSMUSG000000040990
Q9QUN3	Blnk	163809	Grap2	GRB2-related adaptor protein 2	ENSMUSG000000042351
Q9QUN3	Blnk	79651	BTk	Bruton agammaglobulinemia tyrosine kinase	ENSG00000010671
Q9QUN3	Blnk	165583	Itk	IL2-inducible T-cell kinase	ENSMUSG000000020395
Q9QUN3	Blnk	185361	Cmtm3	CKLF-like MARVEL transmembrane domain containing 3	ENSMUSG000000031875

Q9QUN3	Blnk	195070	Plcq2	phospholipase C, gamma 2	ENSMUSG000000034330
Q9QUN3	Blnk	165254	Map4k1	mitogen-activated protein kinase kinase kinase 1	ENSMUSG000000037337
Q9QUN3	Blnk	137672	Mapk1	mitogen-activated protein kinase 1	ENSMUSG000000063358
Q9QUN3	Blnk	171427	Btk	Brunton agammaglobulinemia tyrosine kinase	ENSMUSG000000031264
Q9QUN3	Blnk	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG000000059923
Q35607	Bmpr2	200741	Arrb1	arrestin, beta 1	ENSMUSG000000018909
Q35607	Bmpr2	129000	Cav1	caveolin 1, caveolae protein	ENSMUSG000000076555
Q35607	Bmpr2	149689	Bmpr1a	bone morphogenetic protein receptor, type 1A	ENSMUSG000000021796
Q35607	Bmpr2	166211	Gnb2l1	guanine nucleotide binding protein (G protein), beta polypeptide 2	ENSMUSG000000020372
Q35607	Bmpr2	30667	BMPR1B	bone morphogenetic protein receptor, type IB	ENSG00000138696
Q35607	Bmpr2	78488	TGFBR1	transforming growth factor, beta receptor 1	ENSG00000106799
Q35607	Bmpr2	145653	Nbea	neurobeachin	ENSMUSG000000027799
Q35607	Bmpr2	203344	Lmx1a	LIM homeobox transcription factor 1 alpha	ENSMUSG000000026686
Q35607	Bmpr2	176204	Sult1e1	sulfotransferase family 1E, member 1	ENSMUSG000000029272
Q35607	Bmpr2	212561	Lsp1	lymphocyte specific 1	ENSMUSG000000018819
Q35607	Bmpr2	191539	Trpc1	transient receptor potential cation channel, subfamily C, member 1	ENSMUSG000000032839
Q35607	Bmpr2	179144	Tubb5	tubulin, beta 5	ENSMUSG000000015255
Q35607	Bmpr2	165484	Rabqgta	Rab geranylgeranyl transferase, a subunit	ENSMUSG000000040472
Q35607	Bmpr2	173205	Pdzrn3	PDZ domain containing RING finger 3	ENSMUSG000000035357
Q35607	Bmpr2	194374	Topbp1	topoisomerase (DNA) II binding protein 1	ENSMUSG000000032555
Q35607	Bmpr2	208976	Prkcb	protein kinase C, beta	ENSMUSG000000052889
Q35607	Bmpr2	168192	Serpina3k	serine (or cysteine) peptidase inhibitor, clade A, member 3k	ENSMUSG000000058207
Q35607	Bmpr2	190275	C4bp	complement component 4 binding protein	ENSMUSG000000026405
Q35607	Bmpr2	177408	Twf1	twinfilin, actin-binding protein, homolog 1 (Drosophila)	ENSMUSG000000022451
Q35607	Bmpr2	205458	Mertk	c-mer proto-oncogene tyrosine kinase	ENSMUSG000000014361
Q35607	Bmpr2	127807	Map3k8	mitogen-activated protein kinase kinase kinase 8	ENSMUSG000000024235
Q35607	Bmpr2	149050	Pmpca	peptidase (mitochondrial processing) alpha	ENSMUSG000000026926
Q35607	Bmpr2	145713	Oc90	otoconin 90	ENSMUSG000000015001
Q35607	Bmpr2	142069	Actr8	ARF8 actin-related protein 8 homolog (S. cerevisiae)	ENSMUSG000000015971
Q35607	Bmpr2	271528	Mos	Moloney sarcoma oncogene	ENSMUSG000000078365
Q35607	Bmpr2	189460	Frs3	fibroblast growth factor receptor substrate 3	ENSMUSG000000023266
Q35607	Bmpr2	152845	Ctbp1	C-terminal binding protein 1	ENSMUSG000000037373
Q35607	Bmpr2	198834	Ccdc89	coiled-coil domain containing 89	ENSMUSG000000044362
Q35607	Bmpr2	164070	Cryab	crystallin, alpha B	ENSMUSG000000032060
Q35607	Bmpr2	180668	Ces1d	carboxylesterase 1D	ENSMUSG000000056973
Q8R3B7	Brd8	132192	Kat5	K(lysine) acetyltransferase 5	ENSMUSG000000024926
Q8R3B7	Brd8	200139	Mga	MAX gene associated	ENSMUSG000000033943
Q8R3B7	Brd8	151154	Wdr5	WD repeat domain 5	ENSMUSG000000026917
Q8R3B7	Brd8	173862	Pcgf6	polycomb group ring finger 6	ENSMUSG000000025050
Q8R3B7	Brd8	128962	Mycn	v-myc myelocytomatosis viral related oncogene, neuroblastoma specific 1	ENSMUSG000000037169
Q8R3B7	Brd8	164939	L3mbtl2	l(3)mbt-like 2 (Drosophila)	ENSMUSG000000023294
Q8R3B7	Brd8	136942	Actl6a	actin-like 6A	ENSMUSG000000027671
Q8R3B7	Brd8	198115	Rnf2	ring finger protein 2	ENSMUSG000000026484
Q8R3B7	Brd8	176488	Mxi1	Max interacting protein 1	ENSMUSG000000025025
Q8R3B7	Brd8	199023	Mnt	max binding protein	ENSMUSG000000000282
Q8R3B7	Brd8	179881	Dmap1	DNA methyltransferase 1-associated protein 1	ENSMUSG000000009640
Q8R3B7	Brd8	151490	Max	Max protein	ENSMUSG000000059436
Q8R3B7	Brd8	144556	Myc	myelocytomatosis oncogene	ENSMUSG000000022346
Q8R3B7	Brd8	190143	Ep400	E1A binding protein p400	ENSMUSG000000029505
Q8R3B7	Brd8	150618	Hspa2	heat shock protein 2	ENSMUSG000000059970
Q8R3B7	Brd8	208186	Trrap	transformation/transcription domain-associated protein	ENSMUSG000000045482
Q8R3B7	Brd8	186954	Ldha	lactate dehydrogenase A	ENSMUSG000000063229
Q8R3B7	Brd8	158996	Hdgf	hepatoma-derived growth factor	ENSMUSG000000004897
Q8R3B7	Brd8	182674	Ciapin1	cytokine induced apoptosis inhibitor 1	ENSMUSG000000031781
Q8R3B7	Brd8	190649	Morf4l1	mortality factor 4 like 1	ENSMUSG000000062270
Q8R3B7	Brd8	161272	Actq2	actin, gamma 2, smooth muscle, enteric	ENSMUSG000000059430
Q8R3B7	Brd8	207470	Actb	actin, beta	ENSMUSG000000029580
Q8R3B7	Brd8	214779	Actq1	actin, gamma, cytoplasmic 1	ENSMUSG000000062825
Q8R3B7	Brd8	129480	Inq3	inhibitor of growth family, member 3	ENSMUSG000000029670
Q8R3B7	Brd8	102316	VPS72	vacuolar protein sorting 72 homolog (S. cerevisiae)	ENSG00000163159
Q8R3B7	Brd8	127970	Epc1	enhancer of polycomb homolog 1 (Drosophila)	ENSMUSG000000024240
Q8R3B7	Brd8	168697	Epc2	enhancer of polycomb homolog 2 (Drosophila)	ENSMUSG000000069495
Q8R3B7	Brd8	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG000000026380
Q8R3B7	Brd8	159268	Esrrb	estrogen related receptor, beta	ENSMUSG000000021255
Q3UQU0	Brd9	155600	Smarca2	SWI/SNF related, matrix associated, actin dependent regulator of transcription 2	ENSMUSG000000024921
Q3UQU0	Brd9	141000	Smarca4	SWI/SNF related, matrix associated, actin dependent regulator of transcription 4	ENSMUSG000000032187
Q91Y44	Brdt	194960	Hist1h4j	histone cluster 1, H4j	ENSMUSG000000067455
Q99N20	Brms1	191058	Hdac1	histone deacetylase 1	ENSMUSG000000028800
Q99N20	Brms1	145703	Gck	glucokinase	ENSMUSG000000041798
Q80X66	Btbd10	107751	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase)	ENSG00000117020
Q80X66	Btbd10	174623	Akt1	thymoma viral proto-oncogene 1	ENSMUSG00000001729
Q80X66	Btbd10	161456	Akt2	thymoma viral proto-oncogene 2	ENSMUSG00000004056
Q80X66	Btbd10	206738	Akt3	thymoma viral proto-oncogene 3	ENSMUSG000000019699
Q9ES83	Bves	194400	Arhgef25	Rho guanine nucleotide exchange factor (GEF) 25	ENSMUSG000000019467
Q9ES30	C1qtnf3	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG000000028717
Q99246	Cacna1d	193657	Tubb4	tubulin, beta 4	ENSMUSG000000062591
Q99246	Cacna1d	199519	Cacna1e	calcium channel, voltage-dependent, R type, alpha 1E subunit	ENSMUSG000000004110
Q99246	Cacna1d	136841	Matr3	matrin 3	ENSMUSG000000037236
Q99246	Cacna1d	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG000000043091
Q99246	Cacna1d	199779	Acta1	actin, alpha 1, skeletal muscle	ENSMUSG000000031972
Q99246	Cacna1d	170902	Cacnb4	calcium channel, voltage-dependent, beta 4 subunit	ENSMUSG000000017412
Q8VHW2	Cacnq8	153567	Gria2	glutamate receptor, ionotropic, AMPA2 (alpha 2)	ENSMUSG000000033981
Q8VHW2	Cacnq8	136511	Hspa9	heat shock protein 9	ENSMUSG000000024359
Q8VHW2	Cacnq8	140717	Gria3	glutamate receptor, ionotropic, AMPA3 (alpha 3)	ENSMUSG000000019886
Q8VHW2	Cacnq8	175573	Gria1	glutamate receptor, ionotropic, AMPA1 (alpha 1)	ENSMUSG000000020524
Q8VHW2	Cacnq8	212876	Cttn	cortactin	ENSMUSG000000031078
Q9WVG6	Carm1	133993	Ncoa2	nuclear receptor coactivator 2	ENSMUSG000000058886
Q9WVG6	Carm1	205243	Cttnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
Q9WVG6	Carm1	18826	PIAS1	protein inhibitor of activated STAT, 1	ENSG000000033800

Q9WVG6	Carm1	192287	Grip1	glutamate receptor interacting protein 1	ENSMUSG00000034813
Q9WVG6	Carm1	170220	Mef2c	myocyte enhancer factor 2C	ENSMUSG00000005583
Q9WVG6	Carm1	127933	Ncoa1	nuclear receptor coactivator 1	ENSMUSG00000020647
Q9WVG6	Carm1	201030	Zfp106	zinc finger protein 106	ENSMUSG00000027288
Q9WVG6	Carm1	212832	Ncoa3	nuclear receptor coactivator 3	ENSMUSG00000027678
Q9WVG6	Carm1	134833	Tnik	TRAF2 and NCK interacting kinase	ENSMUSG00000027692
Q9WVG6	Carm1	180861	Zc3h13	zinc finger CCCH type containing 13	ENSMUSG00000022000
Q9WVG6	Carm1	186169	Zfp326	zinc finger protein 326	ENSMUSG00000029290
Q9WVG6	Carm1	139346	Mllt10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog)	ENSMUSG00000026743
Q9WVG6	Carm1	201862	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of transcription 1	ENSMUSG00000032481
Q9WVG6	Carm1	267922	Smarcd2	SWI/SNF related, matrix associated, actin dependent regulator of transcription 2	ENSMUSG00000078619
Q9WVG6	Carm1	181503	Flii	flightless I homolog (Drosophila)	ENSMUSG00000002812
Q9WVG6	Carm1	143983	Trim28	tripartite motif-containing 28	ENSMUSG00000005566
Q9WVG6	Carm1	129915	Rbm14	RNA binding motif protein 14	ENSMUSG00000006456
Q9WVG6	Carm1	196765	Mybbp1a	MYB binding protein (P160) 1a	ENSMUSG000000040463
Q9WVG6	Carm1	137755	Wtap	Wilms' tumour 1-associating protein	ENSMUSG000000060475
Q9WVG6	Carm1	135895	Ubr5	ubiquitin protein ligase E3 component n-recognin 5	ENSMUSG000000037487
Q9WVG6	Carm1	175749	Dot1l	DOT1-like, histone H3 methyltransferase (S. cerevisiae)	ENSMUSG000000061589
Q9WVG6	Carm1	169383	Rif1	Rap1 interacting factor 1 homolog (yeast)	ENSMUSG00000036202
Q9WVG6	Carm1	197552	Smarcc2	SWI/SNF related, matrix associated, actin dependent regulator of transcription 2	ENSMUSG00000025369
Q9WVG6	Carm1	207801	Atad3a	ATPase family, AAA domain containing 3A	ENSMUSG00000029036
Q9WVG6	Carm1	130805	Rbm28	RNA binding motif protein 28	ENSMUSG00000029701
Q9WVG6	Carm1	176882	Chd1l	chromodomain helicase DNA binding protein 1-like	ENSMUSG000000028089
Q9WVG6	Carm1	195347	Arid1a	AT rich interactive domain 1A (SWI-like)	ENSMUSG00000007880
Q9WVG6	Carm1	187693	Wdr47	WD repeat domain 47	ENSMUSG000000040389
Q9WVG6	Carm1	156674	Tcf4	transcription factor 4	ENSMUSG00000053477
Q9WVG6	Carm1	171022	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of transcription factor 7-like 2, T-cell specific, HMG-box	ENSMUSG000000031715
Q9WVG6	Carm1	177837	Tcf7l2	transcription factor 7-like 2, T-cell specific, HMG-box	ENSMUSG00000024985
Q9WVG6	Carm1	154815	Axin1	axin 1	ENSMUSG000000024182
Q9WVG6	Carm1	136038	Hist1h3q	histone cluster 1, H3q	ENSMUSG000000062417
P70677	Casp3	27347	CTNNB1	catenin (cadherin-associated protein), beta 1, 88kDa	ENSG00000168036
P70677	Casp3	11235	PSEN1	presenilin 1	ENSG000000080815
P70677	Casp3	107053	PSEN2	presenilin 2 (Alzheimer disease 4)	ENSG00000143801
P70677	Casp3	205936	IL1b	interleukin 1 beta	ENSMUSG000000027398
P70677	Casp3	37408	THAP11	THAP domain containing 11	ENSG00000168286
P70677	Casp3	4054	GZMB	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated protein 10)	ENSG00000100453
P70677	Casp3	167001	Gzmb	granzyme B	ENSMUSG00000015437
P70677	Casp3	156033	Htt	huntingtin	ENSMUSG000000029104
P70677	Casp3	164070	Cryab	crystallin, alpha B	ENSMUSG000000032060
P70677	Casp3	133177	Birc3	baculoviral IAP repeat-containing 3	ENSMUSG000000032000
P70677	Casp3	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein 1	ENSMUSG00000020849
P70677	Casp3	159848	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)	ENSMUSG00000023067
P70677	Casp3	173276	Pkm2	pyruvate kinase, muscle	ENSMUSG000000032294
P70677	Casp3	180339	D6Wsu116e	DNA segment, Chr 6, Wayne State University 116, expressed in testis	ENSMUSG000000024104
P70677	Casp3	159493	Acta2	actin, alpha 2, smooth muscle, aorta	ENSMUSG000000035783
P70677	Casp3	207194	Parp1	poly (ADP-ribose) polymerase family, member 1	ENSMUSG00000026496
P70677	Casp3	191568	Nucks1	nuclear casein kinase and cyclin-dependent kinase substrate 1	ENSMUSG000000026434
P70677	Casp3	168573	Rps18	ribosomal protein S18	ENSMUSG00000008668
P70677	Casp3	158996	HdGF	hepatoma-derived growth factor	ENSMUSG00000004897
P70343	Casp4	11235	PSEN1	presenilin 1	ENSG000000080815
P70343	Casp4	131590	Casp1	caspase 1	ENSMUSG00000025888
Q8CFW7	Cc2d2a	198038	Tctn1	tectonic family member 1	ENSMUSG000000038593
Q8CFW7	Cc2d2a	136801	Ahl1	Abelson helper integration site 1	ENSMUSG000000019986
Q8CFW7	Cc2d2a	181938	Tuba1b	tubulin, alpha 1B	ENSMUSG000000023004
Q8CFW7	Cc2d2a	211364	Jup	junction plakoglobin	ENSMUSG000000001552
Q8CFW7	Cc2d2a	207470	Actb	actin, beta	ENSMUSG000000029580
Q8CFW7	Cc2d2a	153613	Hspa8	heat shock protein 8	ENSMUSG000000015656
Q8CFW7	Cc2d2a	163151	Hspa5	heat shock protein 5	ENSMUSG000000026864
Q8CFW7	Cc2d2a	172055	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member 1	ENSMUSG000000021270
Q8CFW7	Cc2d2a	146462	Invs	inversin	ENSMUSG000000028344
Q8CFW7	Cc2d2a	136511	Hspa9	heat shock protein 9	ENSMUSG000000024359
Q8CFW7	Cc2d2a	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
Q8CFW7	Cc2d2a	207771	Mks1	Meckel syndrome, type 1	ENSMUSG000000034121
Q8CFW7	Cc2d2a	149554	Fhl2	four and a half LIM domains 2	ENSMUSG000000008136
Q8CFW7	Cc2d2a	173563	Cct8	chaperonin containing Tcp1, subunit 8 (theta)	ENSMUSG000000025613
Q8CFW7	Cc2d2a	185482	Hsp90ab1	heat shock protein 90 alpha (cytosolic), class B member 1	ENSMUSG000000023944
Q9CZX2	Ccdc123	167851	Pspc1	paraspeckle protein 1	ENSMUSG000000021938
Q8C9M2	Ccdc15	35510	EIF4B	eukaryotic translation initiation factor 4B	ENSG00000063046
Q8C9M2	Ccdc15	73948	HNRNPK	heterogeneous nuclear ribonucleoprotein K	ENSG00000165119
Q8C9M2	Ccdc15	41511	NACA	nascent polypeptide-associated complex alpha subunit	ENSG00000196531
Q8C9M2	Ccdc15	21497	C1QBP	complement component 1, q subcomponent binding protein 1	ENSG00000108561
Q8C9M2	Ccdc15	99568	SERBP1	SERPINE1 mRNA binding protein 1	ENSG00000142864
Q8C9M2	Ccdc15	21100	HMGB1	high mobility group box 1	ENSG00000189403
Q8C9M2	Ccdc15	27917	FUS	fused in sarcoma	ENSG00000089280
Q8C9M2	Ccdc15	88484	SET	SET nuclear oncogene	ENSG00000119335
Q8C9M2	Ccdc15	14955	PTMS	parathyrosin	ENSG00000159335
Q8C9M2	Ccdc15	15159	PPIA	peptidylprolyl isomerase A (cyclophilin A)	ENSG00000196262
Q8C9M2	Ccdc15	54713	PYGM	phosphorylase, glycogen, muscle	ENSG00000068976
Q8C9M2	Ccdc15	51019	AHNAK	AHNAK nucleoprotein	ENSG00000124942
Q9JIG7	Ccdc22	235293	CPNE1	copine I	ENSG00000214078
Q9JIG7	Ccdc22	56698	CPNE4	copine IV	ENSG00000196353
P24860	Ccnb1	160472	Cdk1	cyclin-dependent kinase 1	ENSMUSG000000019942
P24860	Ccnb1	204417	Dedd	death effector domain-containing	ENSMUSG000000013973
P24860	Ccnb1	161037	Ptch1	patched homolog 1	ENSMUSG000000021466
P24860	Ccnb1	137597	Pura	purine rich element binding protein A	ENSMUSG000000043991
P24860	Ccnb1	159848	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)	ENSMUSG00000023067
P24860	Ccnb1	145650	Ccnf	cyclin F	ENSMUSG000000072082
P24860	Ccnb1	140083	Rfp14	ret finger protein-like 4	ENSMUSG000000035191
P24860	Ccnb1	176557	Gadd45b	growth arrest and DNA-damage-inducible 45 beta	ENSMUSG000000015312

P24860	Ccnb1	138469	Ube2a	ubiquitin-conjugating enzyme E2A, RAD6 homolog (S. cerevisiae)	ENSMUSG00000016308
P24860	Ccnb1	152599	Gadd45g	growth arrest and DNA-damage-inducible 45 gamma	ENSMUSG00000021453
P24860	Ccnb1	153723	Gadd45a	growth arrest and DNA-damage-inducible 45 alpha	ENSMUSG00000036390
P24860	Ccnb1	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, homolog 1)	ENSMUSG00000020063
P51944	Ccnf	25262	CCNB1	cyclin B1	ENSG00000134057
P51944	Ccnf	178679	Ccnb1	cyclin B1	ENSMUSG00000041431
Q9QWV9	Ccnt1	144556	Myc	myelocytomatosis oncogene	ENSMUSG00000022346
Q9QWV9	Ccnt1	151490	Max	Max protein	ENSMUSG00000059436
Q9QWV9	Ccnt1	175749	Dot1l	DOT1-like, histone H3 methyltransferase (S. cerevisiae)	ENSMUSG00000061589
P80316	Cct5	145597	Pold2	polymerase (DNA directed), delta 2, regulatory subunit	ENSMUSG00000020471
P80316	Cct5	191542	Cct2	chaperonin containing Tcp1, subunit 2 (beta)	ENSMUSG00000034024
P80316	Cct5	173563	Cct8	chaperonin containing Tcp1, subunit 8 (theta)	ENSMUSG00000025613
P80316	Cct5	170572	Selenbp2	selenium binding protein 2	ENSMUSG00000068877
P80316	Cct5	168985	Aldh1l1	aldehyde dehydrogenase 1 family, member L1	ENSMUSG00000030088
P80316	Cct5	88484	SET	SET nuclear oncogene	ENSG00000119335
P80316	Cct5	153613	Hspa8	heat shock protein 8	ENSMUSG00000015656
P80316	Cct5	207470	Actb	actin, beta	ENSMUSG00000029580
P80316	Cct5	160648	Fbp1	fructose bisphosphatase 1	ENSMUSG00000069805
P80316	Cct5	196497	Atp5b	ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit	ENSMUSG00000025393
P80316	Cct5	147385	Hnrnpa2b1	heterogeneous nuclear ribonucleoprotein A2/B1	ENSMUSG00000049800
P80316	Cct5	175870	Mta1	metastasis associated 1	ENSMUSG00000021144
P80316	Cct5	178482	Alb	albumin	ENSMUSG00000029368
P80316	Cct5	136275	Pygm	muscle glycogen phosphorylase	ENSMUSG00000032648
P80316	Cct5	137484	Tcp1	t-complex protein 1	ENSMUSG00000068039
P80316	Cct5	209641	Csnk2a1	casein kinase 2, alpha 1 polypeptide	ENSMUSG00000074698
P80316	Cct5	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
P80316	Cct5	140436	Dnm2	dynamin 2	ENSMUSG00000033335
P80316	Cct5	165898	Ftcd	formiminotransferase cyclodeaminase	ENSMUSG00000001155
P80316	Cct5	152187	Eif2s1	eukaryotic translation initiation factor 2, subunit 1 alpha	ENSMUSG00000021116
P80316	Cct5	145944	Gm5506	predicted gene 5506	ENSMUSG00000059040
P80316	Cct5	170145	Theg	testicular haploid expressed gene	ENSMUSG00000020317
P80316	Cct5	185563	Aicda	activation-induced cytidine deaminase	ENSMUSG00000040627
P80316	Cct5	174830	Tripl2	thyroid hormone receptor interactor 12	ENSMUSG00000026219
P80316	Cct5	150449	Wapal	wings apart-like homolog (Drosophila)	ENSMUSG00000041408
P80316	Cct5	129416	Dnase1	deoxyribonuclease I	ENSMUSG00000005980
P80316	Cct5	197552	Smarcc2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subunit family class B member 2	ENSMUSG00000025369
P80316	Cct5	179125	Pold1	polymerase (DNA directed), delta 1, catalytic subunit	ENSMUSG00000038644
P80316	Cct5	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
P80316	Cct5	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
P80316	Cct5	130609	Glyr1	glyoxylate reductase 1 homolog (Arabidopsis)	ENSMUSG00000022536
P80316	Cct5	168861	Nfkbid	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	ENSMUSG00000036931
P80316	Cct5	176913	Pdcd4	programmed cell death 4	ENSMUSG00000024975
P80316	Cct5	204629	Cct6b	chaperonin containing Tcp1, subunit 6b (zeta)	ENSMUSG00000020698
P80316	Cct5	188705	Actr3	ARP3 actin-related protein 3 homolog (yeast)	ENSMUSG00000026341
P80316	Cct5	190825	Ptbp2	polypyrimidine tract binding protein 2	ENSMUSG00000028134
P80316	Cct5	190814	Rbbp4	retinoblastoma binding protein 4	ENSMUSG00000057236
P80316	Cct5	196636	Metap1	methionyl aminopeptidase 1	ENSMUSG00000005813
P80316	Cct5	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
P80316	Cct5	139206	Orc5	origin recognition complex, subunit 5	ENSMUSG00000029012
P80316	Cct5	159868	Pdk3	pyruvate dehydrogenase kinase, isoenzyme 3	ENSMUSG00000035232
P80316	Cct5	202025	Cct6a	chaperonin containing Tcp1, subunit 6a (zeta)	ENSMUSG00000029447
P80316	Cct5	155224	Set	SET nuclear oncogene	ENSMUSG00000054766
P80316	Cct5	790	ACTB	actin, beta	ENSG00000075624
P80317	Cct6a	132917	Cct5	chaperonin containing Tcp1, subunit 5 (epsilon)	ENSMUSG00000022234
P80317	Cct6a	191542	Cct2	chaperonin containing Tcp1, subunit 2 (beta)	ENSMUSG00000034024
P80317	Cct6a	790	ACTB	actin, beta	ENSG00000075624
Q61390	Cct6b	185563	Aicda	activation-induced cytidine deaminase	ENSMUSG00000040627
Q61390	Cct6b	174830	Tripl2	thyroid hormone receptor interactor 12	ENSMUSG00000026219
Q61390	Cct6b	150449	Wapal	wings apart-like homolog (Drosophila)	ENSMUSG00000041408
Q61390	Cct6b	129416	Dnase1	deoxyribonuclease I	ENSMUSG00000005980
Q61390	Cct6b	197552	Smarcc2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subunit family class B member 2	ENSMUSG00000025369
Q61390	Cct6b	179125	Pold1	polymerase (DNA directed), delta 1, catalytic subunit	ENSMUSG00000038644
Q61390	Cct6b	132917	Cct5	chaperonin containing Tcp1, subunit 5 (epsilon)	ENSMUSG00000022234
Q61390	Cct6b	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
Q61390	Cct6b	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q61390	Cct6b	130609	Glyr1	glyoxylate reductase 1 homolog (Arabidopsis)	ENSMUSG00000022536
Q61390	Cct6b	168861	Nfkbid	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	ENSMUSG00000036931
Q61390	Cct6b	176913	Pdcd4	programmed cell death 4	ENSMUSG00000024975
Q61390	Cct6b	188705	Actr3	ARP3 actin-related protein 3 homolog (yeast)	ENSMUSG00000026341
Q61390	Cct6b	190825	Ptbp2	polypyrimidine tract binding protein 2	ENSMUSG00000028134
Q61390	Cct6b	190814	Rbbp4	retinoblastoma binding protein 4	ENSMUSG00000057236
Q61390	Cct6b	196636	Metap1	methionyl aminopeptidase 1	ENSMUSG00000005813
Q61390	Cct6b	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
Q61390	Cct6b	139206	Orc5	origin recognition complex, subunit 5	ENSMUSG00000029012
Q61390	Cct6b	159868	Pdk3	pyruvate dehydrogenase kinase, isoenzyme 3	ENSMUSG00000035232
P80313	Cct7	253522	Ssca1	Siogren's syndrome/scleroderma autoantigen 1 homolog	ENSMUSG00000079478
P80313	Cct7	63625	PDCL3	phosducin-like 3	ENSG00000115539
P80313	Cct7	42196	PDCD5	programmed cell death 5	ENSG00000105185
P80313	Cct7	56424	CCT7	chaperonin containing TCP1, subunit 7 (eta)	ENSG00000135624
P80313	Cct7	790	ACTB	actin, beta	ENSG00000075624
P80313	Cct7	154117	Cct4	chaperonin containing Tcp1, subunit 4 (delta)	ENSMUSG00000007739
P80313	Cct7	137484	Tcp1	t-complex protein 1	ENSMUSG00000068039
P80313	Cct7	181984	Tuba1a	tubulin, alpha 1A	ENSMUSG00000072235
Q8CJ91	Cd209b	156729	Tlr4	toll-like receptor 4	ENSMUSG00000039005
Q8CJ91	Cd209b	135441	Ly96	lymphocyte antigen 96	ENSMUSG00000025779
Q3U497	Cd300lb	152298	Hsf1	heat shock factor 2	ENSMUSG00000019878
Q08857	Cd36	60317	PXN	paxillin	ENSG00000089159
Q08857	Cd36	37147	PTK2	PTK2 protein tyrosine kinase 2	ENSG00000169398
Q08857	Cd36	408826	LYN	v-yes-1 Yamaquchi sarcoma viral related oncogene homolog	ENSG00000254087

P30306	Cdc25b	211991	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000018326
P30306	Cdc25b	170772	Btrc	beta-transducin repeat containing protein	ENSMUSG00000025217
P30306	Cdc25b	48355	CDC25B	cell division cycle 25 homolog B (S. pombe)	ENSG000001101224
Q9DC48	Cdc40	3127	SMAD2	SMAD family member 2	ENSG00000175387
Q9DC48	Cdc40	28871	SMURF1	SMAD specific E3 ubiquitin protein ligase 1	ENSG00000198742
Q9JM96	Cdc42ep4	78488	TGFBR1	transforming growth factor, beta receptor 1	ENSG00000106799
Q9JM96	Cdc42ep4	198471	Cdc42	cell division cycle 42 homolog (S. cerevisiae)	ENSMUSG00000006699
Q9JM96	Cdc42ep4	201284	Rhoq	ras homolog gene family, member Q	ENSMUSG00000024143
Q8BHX3	Cdca8	28278	AURKB	aurora kinase B	ENSG00000178999
Q8BHX3	Cdca8	97345	EBNA1BP2	EBNA1 binding protein 2	ENSG00000117395
Q8BHX3	Cdca8	68185	MRP57	mitochondrial ribosomal protein S7	ENSG00000125445
Q8BHX3	Cdca8	96468	CDCA8	cell division cycle associated 8	ENSG00000134690
Q8BHX3	Cdca8	75847	SIRT1	sirtuin 1	ENSG00000096717
Q8BHX3	Cdca8	21497	CIQBP	complement component 1, q subcomponent binding protein	ENSG00000108561
Q8BHX3	Cdca8	14949	RSL1D1	ribosomal L1 domain containing 1	ENSG00000171490
O35495	Cdk14	128200	Ccny	cyclin Y	ENSMUSG00000024286
O35495	Cdk14	28871	SMURF1	SMAD specific E3 ubiquitin protein ligase 1	ENSG00000198742
O35495	Cdk14	72930	ACVR1	activin A receptor, type I	ENSG00000115170
O35495	Cdk14	30667	BMPR1B	bone morphogenetic protein receptor, type IB	ENSG00000138696
O35495	Cdk14	78488	TGFBR1	transforming growth factor, beta receptor 1	ENSG00000106799
Q04735	Cdk16	204311	Cdk5r1	cyclin-dependent kinase 5, regulatory subunit 1 (p35)	ENSMUSG00000048895
Q8CEQ0	Cdk1	28871	SMURF1	SMAD specific E3 ubiquitin protein ligase 1	ENSG00000198742
Q8CEQ0	Cdk1	78488	TGFBR1	transforming growth factor, beta receptor 1	ENSG00000106799
P18111	Cdx1	194292	Lef1	lymphoid enhancer binding factor 1	ENSMUSG00000027985
P18111	Cdx1	89861	TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)	ENSG00000148737
P18111	Cdx1	178967	Dlx1	distal-less homeobox 1	ENSMUSG00000041911
P18111	Cdx1	167770	Zfp82	zinc finger protein 82	ENSMUSG00000058447
P18111	Cdx1	159505	Gtf2e1	general transcription factor II E, polypeptide 1 (alpha subunit)	ENSMUSG00000022828
P18111	Cdx1	192631	Alx4	aristaless-like homeobox 4	ENSMUSG00000040310
P18111	Cdx1	168197	Nkx2-3	NK2 transcription factor related, locus 3 (Drosophila)	ENSMUSG00000044220
Q9R0M0	Celsr2	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUSG00000021047
A2AL36	Cep110	1814	SNAP29	synaptosomal-associated protein, 29kDa	ENSG00000099940
A2AL36	Cep110	83228	CNTRL	centriolin	ENSG00000119397
A2AL36	Cep110	65969	GOLGA3	golgin A3	ENSG00000090615
A2AL36	Cep110	83359	RAB14	RAB14, member RAS oncogene family	ENSG00000119396
Q8BT07	Cep55	6303	C15orf23	chromosome 15 open reading frame 23	ENSG00000128944
Q8BT07	Cep55	35022	TSG101	tumor susceptibility gene 101	ENSG00000074319
Q8BT07	Cep55	49752	VPS37C	vacuolar protein sorting 37 homolog C (S. cerevisiae)	ENSG00000167987
Q8BT07	Cep55	75344	CDK1	cyclin-dependent kinase 1	ENSG00000170312
Q8BT07	Cep55	107733	CEP170	centrosomal protein 170kDa	ENSG00000143702
Q8BT07	Cep55	88484	SET	SET nuclear oncogene	ENSG00000119335
Q8BT07	Cep55	63034	GNB2L1	guanine nucleotide binding protein (G protein), beta polypeptide 2	ENSG00000204628
Q8BT07	Cep55	36955	SPAG5	sperm associated antigen 5	ENSG00000076382
Q8BT07	Cep55	35659	HNRNPA1L2	heterogeneous nuclear ribonucleoprotein A1-like 2	ENSG00000139675
Q8BT07	Cep55	52353	IKBIP	IKKKB interacting protein	ENSG00000166130
Q8BT07	Cep55	82762	CEP55	centrosomal protein 55kDa	ENSG00000138180
Q8BT07	Cep55	40909	VPS28	vacuolar protein sorting 28 homolog (S. cerevisiae)	ENSG00000160948
Q8BT07	Cep55	55131	PCBP1	poly(rC) binding protein 1	ENSG00000169564
Q8BT07	Cep55	106888	FBXO28	F-box protein 28	ENSG00000143756
Q8BT07	Cep55	50740	FTH1	ferritin, heavy polypeptide 1	ENSG00000167996
Q8BT07	Cep55	24373	PDCD6IP	programmed cell death 6 interacting protein	ENSG00000170248
P18760	Cf1	38695	SSH2	shingholin homolog 2 (Drosophila)	ENSG00000141298
P18760	Cf1	55527	SSH1	shingholin homolog 1 (Drosophila)	ENSG00000084112
P18760	Cf1	165108	Anxa4	annexin A4	ENSMUSG00000029994
P18760	Cf1	208372	Dstn	desmin	ENSMUSG000000015932
P18760	Cf1	214220	Slc9a3r1	solute carrier family 9 (sodium/hydrogen exchanger), member 3	ENSMUSG00000020733
P18760	Cf1	134163	Ezr	ezzrin	ENSMUSG00000052397
P18760	Cf1	143108	Anxa13	annexin A13	ENSMUSG000000055114
P18760	Cf1	160005	Lgals2	lectin, galactose-binding, soluble 2	ENSMUSG00000043501
P18760	Cf1	180747	Ces1e	carboxylesterase 1E	ENSMUSG000000061959
P18760	Cf1	164732	Lgals4	lectin, galactose binding, soluble 4	ENSMUSG00000053964
P18760	Cf1	195117	Pfn1	profilin 1	ENSMUSG00000018293
P18760	Cf1	147795	Ppia	peptidylprolyl isomerase A	ENSMUSG000000071866
P18760	Cf1	185682	Abcq3	ATP-binding cassette, sub-family G (WHITE), member 3	ENSMUSG00000029299
P18760	Cf1	135063	Agr2	anterior gradient 2 (Xenopus laevis)	ENSMUSG000000020581
P18760	Cf1	198471	Cdc42	cell division cycle 42 homolog (S. cerevisiae)	ENSMUSG00000006699
Q9CXF7	Chd1	156674	Tcf4	transcription factor 4	ENSMUSG00000053477
Q9CXF7	Chd1	205243	Cttnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
Q9CXF7	Chd1	134833	Tnik	TRAF2 and NCK interacting kinase	ENSMUSG00000027692
Q9CXF7	Chd1	180861	Zc3h13	zinc finger CCHC type containing 13	ENSMUSG00000022000
Q9CXF7	Chd1	186169	Zfp326	zinc finger protein 326	ENSMUSG00000029290
Q9CXF7	Chd1	139346	Mllt10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog)	ENSMUSG00000026743
Q9CXF7	Chd1	201862	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of transcription 1	ENSMUSG00000032481
Q9CXF7	Chd1	267922	Smarcd2	SWI/SNF related, matrix associated, actin dependent regulator of transcription 2	ENSMUSG00000078619
Q9CXF7	Chd1	181503	Flii	flightless I homolog (Drosophila)	ENSMUSG00000002812
Q9CXF7	Chd1	143983	Trim28	tripartite motif-containing 28	ENSMUSG00000005566
Q9CXF7	Chd1	129915	Rbm14	RNA binding motif protein 14	ENSMUSG00000006456
Q9CXF7	Chd1	196765	Mybbp1a	MYB binding protein (P160) 1a	ENSMUSG00000040463
Q9CXF7	Chd1	137755	Wtap	Wilms' tumour 1-associating protein	ENSMUSG00000060475
Q9CXF7	Chd1	135895	Ubr5	ubiquitin protein ligase E3 component n-recognin 5	ENSMUSG00000037487
Q9CXF7	Chd1	175749	Dot1l	DOT1-like, histone H3 methyltransferase (S. cerevisiae)	ENSMUSG00000061589
Q9CXF7	Chd1	169383	Rif1	Rap1 interacting factor 1 homolog (yeast)	ENSMUSG00000036202
Q9CXF7	Chd1	197552	Smarcc2	SWI/SNF related, matrix associated, actin dependent regulator of transcription 2	ENSMUSG00000025369
Q9CXF7	Chd1	207801	Atad3a	ATPase family, AAA domain containing 3A	ENSMUSG00000029036
Q9CXF7	Chd1	130805	Rbm28	RNA binding motif protein 28	ENSMUSG000000029701
Q9CXF7	Chd1	140748	Carm1	coactivator-associated arginine methyltransferase 1	ENSMUSG00000032185
Q9CXF7	Chd1	195347	Arid1a	AT rich interactive domain 1A (SWI-like)	ENSMUSG00000007880
Q9CXF7	Chd1	187693	Wdr47	WD repeat domain 47	ENSMUSG00000040389
Q9CXF7	Chd1	171022	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of transcription 5	ENSMUSG00000031715

Q9CXF7	Chd1	177837	Tcf7l2	transcription factor 7-like 2, T-cell specific, HMG-box	ENSMUSG00000024985
Q9Z265	Chek2	46567	BRD8	bromodomain containing 8	ENSG00000112983
Q9Z265	Chek2	84955	STK38	serine/threonine kinase 38	ENSG00000112079
Q9Z265	Chek2	25854	JPH1	junctophilin 1	ENSG00000104369
Q9Z265	Chek2	3314	CHEK2	CHK2 checkpoint homolog (S. pombe)	ENSG00000183765
Q80XD1	Chn2	163843	Efna4	ephrin A4	ENSMUSG00000028040
Q80XD1	Chn2	142164	Epha1	Eph receptor A1	ENSMUSG00000029859
Q80XD1	Chn2	78488	TGFBR1	transforming growth factor, beta receptor 1	ENSG00000106799
Q9Z261	Cldn7	211994	Wnk4	WNK lysine deficient protein kinase 4	ENSMUSG00000035112
Q9Z261	Cldn7	191302	Tjp1	tight junction protein 1	ENSMUSG00000030516
Q99JH7	Clstn3	209151	Cst3	cystatin C	ENSMUSG00000027447
Q99JH7	Clstn3	185288	Sparcl1	SPARC-like 1	ENSMUSG00000029309
Q99JH7	Clstn3	168935	Aplp1	amyloid beta (A4) precursor-like protein 1	ENSMUSG00000006651
Q99JH7	Clstn3	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
Q99JH7	Clstn3	155394	Thy1	thymus cell antigen 1, theta	ENSMUSG00000032011
Q99JH7	Clstn3	207129	Spon1	spondin 1, (f-spondin) extracellular matrix protein	ENSMUSG00000038156
Q99JH7	Clstn3	146661	Aplp2	amyloid beta (A4) precursor-like protein 2	ENSMUSG00000031996
Q99JH7	Clstn3	211078	Oat	ornithine aminotransferase	ENSMUSG00000030934
Q99JH7	Clstn3	151663	Mat1a	methionine adenosyltransferase I, alpha	ENSMUSG00000037798
Q99JH7	Clstn3	172954	App	amyloid beta (A4) precursor protein	ENSMUSG00000022892
Q99JH7	Clstn3	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
Q99JH7	Clstn3	131138	Calu	calumenin	ENSMUSG00000029767
Q99JH7	Clstn3	152814	Ppp1r2	protein phosphatase 1, regulatory (inhibitor) subunit 2	ENSMUSG00000047714
Q99JH7	Clstn3	196143	Epb4.113	erythrocyte protein band 4.1-like 3	ENSMUSG00000024044
Q99JH7	Clstn3	178669	Ppib	peptidylprolyl isomerase B	ENSMUSG00000032383
Q99JH7	Clstn3	174959	Calr	calreticulin	ENSMUSG0000003814
Q99JH7	Clstn3	182078	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	ENSMUSG00000020048
Q99JH7	Clstn3	168591	Canx	calnexin	ENSMUSG00000020368
Q99JH7	Clstn3	176351	Cntn1	contactin 1	ENSMUSG00000055022
Q99JH7	Clstn3	163105	Ncam1	neural cell adhesion molecule 1	ENSMUSG00000039542
Q99JH7	Clstn3	168462	Rcn2	reticulocalbin 2	ENSMUSG00000032320
Q99JH7	Clstn3	205238	Clstn1	calsyntenin 1	ENSMUSG00000039953
Q99JH7	Clstn3	182141	Gabbr1	gamma-aminobutyric acid (GABA) B receptor, 1	ENSMUSG00000024462
Q99JH7	Clstn3	157064	Hyou1	hypoxia up-regulated 1	ENSMUSG00000032115
Q99JH7	Clstn3	171290	Hspa4	heat shock protein 4	ENSMUSG00000020361
Q99JH7	Clstn3	175327	Sraap3	SLIT-ROBO Rho GTPase activating protein 3	ENSMUSG00000030257
Q99JH7	Clstn3	141546	Ganab	alpha glucosidase 2 alpha neutral subunit	ENSMUSG00000071650
Q99JH7	Clstn3	192274	Nfasc	neurofascin	ENSMUSG00000026442
Q99JH7	Clstn3	178513	Atp2b2	ATPase, Ca++ transporting, plasma membrane 2	ENSMUSG00000030302
Q99JH7	Clstn3	146362	Erp44	endoplasmic reticulum protein 44	ENSMUSG00000028343
Q99JH7	Clstn3	168858	Lingo1	leucine rich repeat and Iq domain containing 1	ENSMUSG00000049556
Q99JH7	Clstn3	260830	Prnp	prion protein	ENSMUSG00000079037
Q99JH7	Clstn3	158252	Cpe	carboxypeptidase E	ENSMUSG00000037852
Q68FD5	Citc	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG00000027273
Q68FD5	Citc	203389	Stx1a	syntaxin 1A (brain)	ENSMUSG00000007207
Q68FD5	Citc	175573	Gria1	glutamate receptor, ionotropic, AMPA1 (alpha 1)	ENSMUSG00000020524
Q68FD5	Citc	193317	Dlq4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
Q68FD5	Citc	150657	Camk2a	calcium/calmodulin-dependent protein kinase II alpha	ENSMUSG00000024617
Q68FD5	Citc	210393	Stx1b	syntaxin 1B	ENSMUSG00000030806
Q68FD5	Citc	245666	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	ENSG00000072818
Q68FD5	Citc	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor protein)	ENSG00000145335
Q68FD5	Citc	159551	Dnm1	dynamain 1	ENSMUSG00000026825
Q68FD5	Citc	137748	Kcnma1	potassium large conductance calcium-activated channel, slow	ENSMUSG000000063142
Q68FD5	Citc	158171	Spnb2	spectrin beta 2	ENSMUSG00000020315
Q68FD5	Citc	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
Q68FD5	Citc	195117	Pfn1	profilin 1	ENSMUSG00000018293
Q68FD5	Citc	174739	Sv2a	synaptic vesicle glycoprotein 2 a	ENSMUSG00000038486
Q68FD5	Citc	205183	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	ENSMUSG00000035152
Q68FD5	Citc	180315	Ap2a1	adaptor protein complex AP-2, alpha 1 subunit	ENSMUSG00000060279
Q68FD5	Citc	143791	Ap1b1	adaptor protein complex AP-1, beta 1 subunit	ENSMUSG00000009090
Q68FD5	Citc	135538	Syn1	synapsin I	ENSMUSG00000037217
Q68FD5	Citc	189699	Snap91	synaptosomal-associated protein 91	ENSMUSG00000033419
Q68FD5	Citc	213066	Nsf	N-ethylmaleimide sensitive fusion protein	ENSMUSG00000034187
Q68FD5	Citc	27257	LRRK2	leucine-rich repeat kinase 2	ENSG00000188906
Q68FD5	Citc	159493	Acta2	actin, alpha 2, smooth muscle, aorta	ENSMUSG00000035783
Q68FD5	Citc	132306	Cadps	Ca2+-dependent secretion activator	ENSMUSG00000054423
Q68FD5	Citc	161623	Stxbp1	syntaxin binding protein 1	ENSMUSG00000026797
Q68FD5	Citc	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
Q68FD5	Citc	195526	Lin7c	lin-7 homolog C (C. elegans)	ENSMUSG00000027162
Q68FD5	Citc	191187	Apba2	amyloid beta (A4) precursor protein-binding, family A, member 2	ENSMUSG00000030519
Q68FD5	Citc	182740	Lin7b	lin-7 homolog B (C. elegans)	ENSMUSG00000003872
Q68FD5	Citc	140932	Dst	dystonin	ENSMUSG00000026131
Q68FD5	Citc	188759	Ppfia2	protein tyrosine phosphatase, receptor type, f polypeptide	ENSMUSG00000053825
Q68FD5	Citc	182583	Ppfia3	protein tyrosine phosphatase, receptor type, f polypeptide	ENSMUSG00000003863
Q68FD5	Citc	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG000000043091
Q68FD5	Citc	133241	Cask	calcium/calmodulin-dependent serine protein kinase (MAC	ENSMUSG00000031012
Q68FD5	Citc	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
Q68FD5	Citc	144904	Grin1	glutamate receptor, ionotropic, NMDA1 (zeta 1)	ENSMUSG00000026959
Q62Q08	Cnot1	201159	Itgb1	integrin beta 1 (fibronectin receptor beta)	ENSMUSG00000025809
Q62Q08	Cnot1	181254	Cnot6l	CCR4-NOT transcription complex, subunit 6-like	ENSMUSG00000034724
Q61330	Cntn2	203902	Tgfb2	transforming growth factor, beta receptor II	ENSMUSG00000032440
Q61330	Cntn2	201307	Ubc	ubiquitin C	ENSMUSG00000008348
Q9JMB8	Cntn6	173444	Chl1	cell adhesion molecule with homology to L1CAM	ENSMUSG00000030077
Q99P47	Cntnap4	133241	Cask	calcium/calmodulin-dependent serine protein kinase (MAC	ENSMUSG00000031012
Q8CIE6	Copa	38990	COPE	coatamer protein complex, subunit epsilon	ENSG00000105669
Q8CIE6	Copa	104029	COPA	coatamer protein complex, subunit alpha	ENSG00000122218
Q8CIE6	Copa	37816	COPZ1	coatamer protein complex, subunit zeta 1	ENSG00000111481
Q8CIE6	Copa	58841	COPB2	coatamer protein complex, subunit beta 2 (beta prime)	ENSG00000184432
Q8CIE6	Copa	89834	BCAP31	B-cell receptor-associated protein 31	ENSG00000185825

Q8CIE6	Copa	33088	COPB1	coatamer protein complex, subunit beta 1	ENSG00000129083
Q8CIE6	Copa	48249	SIPA1L3	signal-induced proliferation-associated 1 like 3	ENSG00000105738
Q8CIE6	Copa	25127	ERGIC2	ERGIC and golgi 2	ENSG00000087502
Q8CIE6	Copa	55630	COPG	coatamer protein complex, subunit gamma	ENSG00000181789
Q8CIE6	Copa	46170	ATL2	atlastin GTPase 2	ENSG00000119787
Q8CIE6	Copa	73982	ARCN1	archain 1	ENSG00000095139
Q9JIF7	Copb1	158983	Mapk14	mitogen-activated protein kinase 14	ENSMUSG00000053436
Q9JIF7	Copb1	131410	Elavl1	ELAV (embryonic lethal, abnormal vision, Drosophila)-like	ENSMUSG00000040028
Q9JIF7	Copb1	176189	Ins1	insulin I	ENSMUSG00000035804
O88544	Cops4	197036	Stat2	signal transducer and activator of transcription 2	ENSMUSG00000040033
O88544	Cops4	46918	CUL1	cullin 1	ENSG00000055130
O35864	Cops5	46918	CUL1	cullin 1	ENSG00000055130
O35864	Cops5	214902	Gps1	G protein pathway suppressor 1	ENSMUSG00000025156
O35864	Cops5	179989	Cops8	COP9 (constitutive photomorphogenic) homolog, subunit	ENSMUSG00000034432
O35864	Cops5	179523	Cops3	COP9 (constitutive photomorphogenic) homolog, subunit	ENSMUSG00000019373
O35864	Cops5	177144	Cops7b	COP9 (constitutive photomorphogenic) homolog, subunit	ENSMUSG00000026240
O35864	Cops5	205825	Cops6	COP9 (constitutive photomorphogenic) homolog, subunit	ENSMUSG00000019494
O35864	Cops5	139755	Vcp	valosin containing protein	ENSMUSG00000028452
Q00493	Cpe	209151	Cst3	cystatin C	ENSMUSG00000027447
Q00493	Cpe	185288	Sparcl1	SPARC-like 1	ENSMUSG00000029309
Q00493	Cpe	168935	Aplp1	amyloid beta (A4) precursor-like protein 1	ENSMUSG00000006651
Q00493	Cpe	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
Q00493	Cpe	155394	Thy1	thymus cell antigen 1, theta	ENSMUSG00000032011
Q00493	Cpe	207129	Spon1	spondin 1, (f-spondin) extracellular matrix protein	ENSMUSG00000038156
Q00493	Cpe	146661	Aplp2	amyloid beta (A4) precursor-like protein 2	ENSMUSG00000031996
Q00493	Cpe	211078	Oat	ornithine aminotransferase	ENSMUSG00000030934
Q00493	Cpe	151663	Mat1a	methionine adenosyltransferase I, alpha	ENSMUSG00000037798
Q00493	Cpe	172954	App	amyloid beta (A4) precursor protein	ENSMUSG00000022892
Q00493	Cpe	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
Q00493	Cpe	131138	Calu	calumenin	ENSMUSG00000029767
Q00493	Cpe	152814	Ppp1r2	protein phosphatase 1, regulatory (inhibitor) subunit 2	ENSMUSG00000047714
Q00493	Cpe	196143	Epb4.113	erythrocyte protein band 4.1-like 3	ENSMUSG00000024044
Q00493	Cpe	178669	Ppib	peptidylprolyl isomerase B	ENSMUSG00000032383
Q00493	Cpe	174959	Calr	calreticulin	ENSMUSG00000038114
Q00493	Cpe	182078	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	ENSMUSG00000020048
Q00493	Cpe	168591	Canx	calnexin	ENSMUSG00000020368
Q00493	Cpe	176351	Cntn1	contactin 1	ENSMUSG00000055022
Q00493	Cpe	163105	Ncam1	neural cell adhesion molecule 1	ENSMUSG00000039542
Q00493	Cpe	168462	Rcn2	reticulocalbin 2	ENSMUSG00000032320
Q00493	Cpe	205238	Clstn1	calsyntenin 1	ENSMUSG00000039953
Q00493	Cpe	182141	Gabbr1	gamma-aminobutyric acid (GABA) B receptor, 1	ENSMUSG00000024462
Q00493	Cpe	157064	Hyou1	hypoxia up-regulated 1	ENSMUSG00000032115
Q00493	Cpe	171290	Hspa4	heat shock protein 4	ENSMUSG00000020361
Q00493	Cpe	175327	Sraap3	SLIT-ROBO Rho GTPase activating protein 3	ENSMUSG00000030257
Q00493	Cpe	141546	Ganab	alpha glucosidase 2 alpha neutral subunit	ENSMUSG00000071650
Q00493	Cpe	192274	Nfasc	neurofascin	ENSMUSG00000026442
Q00493	Cpe	178513	Atp2b2	ATPase, Ca++ transporting, plasma membrane 2	ENSMUSG00000030302
Q00493	Cpe	146362	Erp44	endoplasmic reticulum protein 44	ENSMUSG00000028343
Q00493	Cpe	168858	Lingo1	leucine rich repeat and Iq domain containing 1	ENSMUSG00000049556
Q00493	Cpe	186875	Clstn3	calsyntenin 3	ENSMUSG00000008153
Q00493	Cpe	260830	Prnp	prion protein	ENSMUSG00000079037
Q00493	Cpe	18226	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit	ENSG00000132356
Q00493	Cpe	178304	Klik1b4	kallikrein 1-related peptidase b4	ENSMUSG00000066513
Q00493	Cpe	195506	Bdnf	brain derived neurotrophic factor	ENSMUSG00000048482
P22935	Crabp2	179611	Tdq	thymine DNA glycosylase	ENSMUSG00000034674
P22935	Crabp2	164782	Ep300	E1A binding protein p300	ENSMUSG00000055024
Q92125	Creb3l1	168138	Daxx	Fas death domain-associated protein	ENSMUSG00000020307
P45481	Crebbp	136654	Ii2ra	interleukin 2 receptor, alpha chain	ENSMUSG00000026770
P45481	Crebbp	128365	Lyn	Yamaguchi sarcoma viral (v-yes-1) oncogene homolog	ENSMUSG00000042288
P45481	Crebbp	24827	NCOA2	nuclear receptor coactivator 2	ENSG00000140396
P45481	Crebbp	97997	ESR1	estrogen receptor 1	ENSG00000091831
P45481	Crebbp	191571	Khdrbs1	KH domain containing, RNA binding, signal transduction a	ENSMUSG00000028790
P45481	Crebbp	26364	TP53	tumor protein p53	ENSG00000141510
P45481	Crebbp	132298	Rela	v-rel reticuloendotheliosis viral oncogene homolog A (avian	ENSMUSG00000024927
P45481	Crebbp	9448	SREBF2	sterol regulatory element binding transcription factor 2	ENSG00000198911
P45481	Crebbp	1757	MED15	mediator complex subunit 15	ENSG00000099917
P45481	Crebbp	79573	CREB1	cAMP responsive element binding protein 1	ENSG00000118260
P45481	Crebbp	96852	MYB	v-myb myeloblastosis viral oncogene homolog (avian)	ENSG00000118513
P45481	Crebbp	146013	Wwtr1	WW domain containing transcription regulator 1	ENSMUSG00000027803
P45481	Crebbp	175856	Ifnar2	interferon (alpha and beta) receptor 2	ENSMUSG00000022971
P45481	Crebbp	194495	Maf	avian musculoaponeurotic fibrosarcoma (v-maf) A542 on	ENSMUSG00000055435
P45481	Crebbp	79741	NCOA3	nuclear receptor coactivator 3	ENSG00000124151
P45481	Crebbp	169132	Chuk	conserved helix-loop-helix ubiquitous kinase	ENSMUSG00000025199
P45481	Crebbp	33208	SREBF1	sterol regulatory element binding transcription factor 1	ENSG00000072310
P45481	Crebbp	164782	Ep300	E1A binding protein p300	ENSMUSG00000055024
P45481	Crebbp	84312	ISG15	ISG15 ubiquitin-like modifier	ENSG00000187608
P45481	Crebbp	190185	Sfpi1	SFFV proviral integration 1	ENSMUSG00000002111
P45481	Crebbp	181123	Irf3	interferon regulatory factor 3	ENSMUSG00000003184
P45481	Crebbp	159854	Ifit1	interferon-induced protein with tetratricopeptide repeats	ENSMUSG00000034459
P45481	Crebbp	63225	IRF3	interferon regulatory factor 3	ENSG00000126456
P45481	Crebbp	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG00000004040
P45481	Crebbp	195602	Stat6	signal transducer and activator of transcription 6	ENSMUSG00000002147
P45481	Crebbp	177503	Matk	megakaryocyte-associated tyrosine kinase	ENSMUSG00000004933
P45481	Crebbp	132667	Socs1	suppressor of cytokine signaling 1	ENSMUSG00000038037
P45481	Crebbp	162198	Ifnb1	interferon beta 1, fibroblast	ENSMUSG00000048806
P45481	Crebbp	205635	Gm11428	predicted gene 11428	ENSMUSG00000069792
P45481	Crebbp	171764	Ldb1	LIM domain binding 1	ENSMUSG00000025223
P45481	Crebbp	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
P45481	Crebbp	47411	RARA	retinoic acid receptor, alpha	ENSG00000131759

P45481	Crebbp	203320	Rxrq	retinoid X receptor gamma	ENSMUSG00000015843
P45481	Crebbp	56918	HOXB7	homeobox B7	ENSG00000120087
P45481	Crebbp	56983	HOXB9	homeobox B9	ENSG00000170689
P45481	Crebbp	56810	HOXB4	homeobox B4	ENSG00000182742
P45481	Crebbp	181182	Hoxd4	homeobox D4	ENSMUSG00000042464
P45481	Crebbp	56721	HOXB2	homeobox B2	ENSG00000173917
P45481	Crebbp	56791	HOXB3	homeobox B3	ENSG00000120093
P45481	Crebbp	75704	HOXD10	homeobox D10	ENSG00000128710
P45481	Crebbp	75755	HOXD4	homeobox D4	ENSG00000170166
P45481	Crebbp	56845	HOXB6	homeobox B6	ENSG00000108511
P45481	Crebbp	104447	PBX1	pre-B-cell leukemia homeobox 1	ENSG00000185630
P45481	Crebbp	172487	Hdac10	histone deacetylase 10	ENSMUSG00000062906
P45481	Crebbp	132359	Pcmt1	protein-L-isoaspartate (D-aspartate) O-methyltransferase	ENSMUSG00000019795
P45481	Crebbp	134872	Cited2	Cbp/p300-interacting transactivator, with Glu/Asp-rich car	ENSMUSG00000039910
P45481	Crebbp	205730	Polr1b	polymerase (RNA) I polypeptide B	ENSMUSG00000027395
P45481	Crebbp	179280	Ets2	E26 avian leukemia oncogene 2, 3' domain	ENSMUSG00000022895
P45481	Crebbp	181423	Mil2	myeloid/lymphoid or mixed-lineage leukemia 2	ENSMUSG00000048154
P45481	Crebbp	182067	Gpbp1	GC-rich promoter binding protein 1	ENSMUSG00000032745
P45481	Crebbp	147548	Ets1	E26 avian leukemia oncogene 1, 5' domain	ENSMUSG00000032035
P45481	Crebbp	189502	Nfe2	nuclear factor, erythroid derived 2	ENSMUSG00000058794
P45481	Crebbp	172461	Mitf	microphthalmia-associated transcription factor	ENSMUSG00000035158
P45481	Crebbp	186053	Myod1	myogenic differentiation 1	ENSMUSG00000009471
P45481	Crebbp	172404	Lass2	LAG1 homolog, ceramide synthase 2	ENSMUSG00000015714
P45481	Crebbp	181483	Nfe2l2	nuclear factor, erythroid derived 2, like 2	ENSMUSG00000015839
P45481	Crebbp	212832	Ncoa3	nuclear receptor coactivator 3	ENSMUSG00000027678
P45481	Crebbp	207513	Prkcz	protein kinase C, zeta	ENSMUSG00000029053
P45481	Crebbp	195801	Zfp592	zinc finger protein 592	ENSMUSG00000005621
P45481	Crebbp	7852	HTT	huntingtin	ENSG00000197386
P45481	Crebbp	190822	Kat2b	K(lysine) acetyltransferase 2B	ENSMUSG00000000708
P45481	Crebbp	205243	Ctnnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
P45481	Crebbp	141988	Phf17	PHD finger protein 17	ENSMUSG00000025764
P45481	Crebbp	151888	Hes1	hairly and enhancer of split 1 (Drosophila)	ENSMUSG00000022528
P45481	Crebbp	191036	Trp53	transformation related protein 53	ENSMUSG00000059552
P45481	Crebbp	135865	Cnot3	CCR4-NOT transcription complex, subunit 3	ENSMUSG00000035632
P45481	Crebbp	191455	Sh3gl1	SH3-domain GRB2-like 1	ENSMUSG00000003200
P45481	Crebbp	202154	Zbtb17	zinc finger and BTB domain containing 17	ENSMUSG00000006215
P45481	Crebbp	194019	Trip10	thyroid hormone receptor interactor 10	ENSMUSG00000019487
P45481	Crebbp	200814	Eif2b1	eukaryotic translation initiation factor 2B, subunit 1 (alpha	ENSMUSG00000029388
P45481	Crebbp	46431	MDM2	Mdm2 p53 binding protein homolog (mouse)	ENSG00000135679
P45481	Crebbp	24524	RCHY1	ring finger and CHY zinc finger domain containing 1	ENSG00000163743
P45481	Crebbp	85033	CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	ENSG00000124762
P45481	Crebbp	57604	KATS	K(lysine) acetyltransferase 5	ENSG00000172977
P45481	Crebbp	33430	TP53I3	tumor protein p53 inducible protein 3	ENSG00000115129
P45481	Crebbp	74840	FOXO4	forkhead box O4	ENSG00000184481
P45481	Crebbp	163340	Foxo4	forkhead box O4	ENSMUSG00000042903
P45481	Crebbp	161359	Creb1	cAMP responsive element binding protein 1	ENSMUSG00000025958
P45481	Crebbp	256978	Hoxd3	homeobox D3	ENSMUSG00000079277
Q91W50	Csde1	189502	Nfe2	nuclear factor, erythroid derived 2	ENSMUSG00000058794
Q91W50	Csde1	192287	Grip1	glutamate receptor interacting protein 1	ENSMUSG00000034813
Q8VHY0	Cspg4	153567	Gria2	glutamate receptor, ionotropic, AMPA2 (alpha 2)	ENSMUSG00000033981
Q8VHY0	Cspg4	157659	Cxcr5	chemokine (C-X-C motif) receptor 5	ENSMUSG00000047880
Q62018	Ctr9	50702	STAT3	signal transducer and activator of transcription 3 (acute-p	ENSG00000168610
Q62018	Ctr9	148014	Hoxa9	homeobox A9	ENSMUSG00000038227
Q62018	Ctr9	73725	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax ho	ENSG00000118058
Q62018	Ctr9	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q62018	Ctr9	189416	Sfpq	splicing factor proline/glutamine rich (polypyrimidine tract	ENSMUSG00000028820
Q62018	Ctr9	166976	Ruvb1	RuvB-like protein 1	ENSMUSG00000030079
Q62018	Ctr9	135334	Pabpc1	poly(A) binding protein, cytoplasmic 1	ENSMUSG00000022283
Q62018	Ctr9	196894	Cdc73	cell division cycle 73, Paf1/RNA polymerase II complex co	ENSMUSG00000026361
Q62018	Ctr9	185177	Leo1	Leo1, Paf1/RNA polymerase II complex component, homod	ENSMUSG00000042487
Q62018	Ctr9	138489	Rcor2	REST corepressor 2	ENSMUSG00000024968
Q62018	Ctr9	163408	Paf1	Paf1, RNA polymerase II associated factor, homolog (S. ce	ENSMUSG00000003437
Q62018	Ctr9	182997	Ruvb12	RuvB-like protein 2	ENSMUSG00000003868
Q62018	Ctr9	167012	Wdr61	WD repeat domain 61	ENSMUSG00000061559
Q62018	Ctr9	172522	Blk	B lymphoid kinase	ENSMUSG00000014453
P18242	Ctsd	177150	Enam	enamelin	ENSMUSG00000029286
P18242	Ctsd	136984	Igf2r	insulin-like growth factor 2 receptor	ENSMUSG00000023830
P18242	Ctsd	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q3TCH7	Cul4a	141000	Smarca4	SWI/SNF related, matrix associated, actin dependent regu	ENSMUSG00000032187
Q3TCH7	Cul4a	212973	Ccnd1	cyclin D1	ENSMUSG00000070348
P70298	Cux2	152459	Gda	guanine deaminase	ENSMUSG00000058624
P70298	Cux2	162948	Lgi1	leucine-rich repeat LGI family, member 1	ENSMUSG00000067242
P70298	Cux2	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
P70298	Cux2	133249	Adam22	a disintegrin and metallopeptidase domain 22	ENSMUSG00000040537
P70298	Cux2	193317	Dlg4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
Q7TMB8	Cyfp1	149366	Fmr1	fragile X mental retardation syndrome 1 homolog	ENSMUSG00000000838
Q7TMB8	Cyfp1	196687	Eif4e	eukaryotic translation initiation factor 4E	ENSMUSG00000028156
Q7TMB8	Cyfp1	176600	Mtap1b	microtubule-associated protein 1B	ENSMUSG00000052727
Q7TMB8	Cyfp1	210708	Eif6	eukaryotic translation initiation factor 6	ENSMUSG00000027613
Q7TMB8	Cyfp1	161343	Rps6	ribosomal protein S6	ENSMUSG00000028495
Q7TMB8	Cyfp1	146219	Pfn2	profilin 2	ENSMUSG00000027805
Q7TMB8	Cyfp1	88380	FMR1	fragile X mental retardation 1	ENSG00000102081
Q6PGL7	D6Wsu116e	154306	Casp3	caspace 3	ENSMUSG00000031628
Q6PGL7	D6Wsu116e	178813	Casp7	caspace 7	ENSMUSG00000025076
O35613	Daxx	160462	Snw1	SNW domain containing 1	ENSMUSG00000021039
O35613	Daxx	181648	Hipk1	homeodomain interacting protein kinase 1	ENSMUSG00000008730
O35613	Daxx	159577	Fas	Fas (TNF receptor superfamily member 6)	ENSMUSG00000024778
O35613	Daxx	101257	HIPK1	homeodomain interacting protein kinase 1	ENSG00000163349
O35613	Daxx	177264	Dapk3	death-associated protein kinase 3	ENSMUSG00000034974

Q35613	Daxx	194397	Hipk3	homeodomain interacting protein kinase 3	ENSMUSG00000027177
Q35613	Daxx	18095	DAPK3	death-associated protein kinase 3	ENSG00000167657
Q35613	Daxx	191036	Trp53	transformation related protein 53	ENSMUSG00000059552
Q35613	Daxx	191852	Mdm2	transformed mouse 3T3 cell double minute 2	ENSMUSG00000020184
Q35613	Daxx	197637	Rassf1	Ras association (RalGDS/AF-6) domain family member 1	ENSMUSG000000010067
Q35613	Daxx	148417	Mapk8	mitogen-activated protein kinase 8	ENSMUSG00000021936
Q35613	Daxx	192874	Slc2a4	solute carrier family 2 (facilitated glucose transporter), member 4	ENSMUSG00000018566
Q35613	Daxx	127944	Kif5b	kinesin family member 5B	ENSMUSG00000006740
Q35613	Daxx	67436	KIF5B	kinesin family member 5B	ENSG00000170759
Q35613	Daxx	166501	Atrx	alpha thalassemia/mental retardation syndrome X-linked	ENSMUSG00000031229
Q35613	Daxx	207281	H3f3a	H3 histone, family 3A	ENSMUSG00000060743
Q35613	Daxx	142685	Hira	histone cell cycle regulation defective homolog A (S. cerevisiae)	ENSMUSG00000022702
Q35613	Daxx	158495	Sumo1	SMT3 suppressor of mif two 3 homolog 1 (yeast)	ENSMUSG00000026021
Q35613	Daxx	179881	Dmap1	DNA methyltransferase 1-associated protein 1	ENSMUSG00000009640
Q35613	Daxx	136255	Map3k5	mitogen-activated protein kinase kinase kinase 5	ENSMUSG000000017369
Q35613	Daxx	214321	Sumo2	SMT3 suppressor of mif two 3 homolog 2 (yeast)	ENSMUSG00000002738
Q35613	Daxx	191935	Creb3l1	cAMP responsive element binding protein 3-like 1	ENSMUSG00000027230
Q35613	Daxx	23359	TGFBR2	transforming growth factor, beta receptor II (70/80kDa)	ENSG00000163513
Q6PGN3	Dclt2	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
Q91VR5	Ddx1	191912	Ticam1	toll-like receptor adaptor molecule 1	ENSMUSG000000047123
Q91VR5	Ddx1	157719	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	ENSMUSG00000020075
Q91VR5	Ddx1	147779	Dhx36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	ENSMUSG00000027770
Q9CWX9	Ddx47	185563	Aicda	activation-induced cytidine deaminase	ENSMUSG000000040627
Q9CWX9	Ddx47	148105	Wdfy4	WD repeat and FYVE domain containing 4	ENSMUSG00000051506
Q9CWX9	Ddx47	198150	Fam129a	family with sequence similarity 129, member A	ENSMUSG00000026483
Q9CWX9	Ddx47	149105	Sympk	symplekin	ENSMUSG00000023118
Q9CWX9	Ddx47	171593	Dync1h1	dynein cytoplasmic 1 heavy chain 1	ENSMUSG00000018707
Q9CWX9	Ddx47	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
Q9CWX9	Ddx47	134704	Mre11a	meiotic recombination 11 homolog A (S. cerevisiae)	ENSMUSG00000031928
Q9CWX9	Ddx47	178754	Toe1	target of EGR1, member 1 (nuclear)	ENSMUSG00000028688
Q9CWX9	Ddx47	214390	Galk1	galactokinase 1	ENSMUSG00000020766
Q9CWX9	Ddx47	176026	Rpl4	ribosomal protein L4	ENSMUSG00000032399
Q9CWX9	Ddx47	142542	Serpinb1a	serine (or cysteine) peptidase inhibitor, clade B, member B1	ENSMUSG00000044734
Q921T5	Deaf1	53956	GSK3A	glycogen synthase kinase 3 alpha	ENSG00000105723
Q921T5	Deaf1	51663	GSK3B	glycogen synthase kinase 3 beta	ENSG00000082701
Q99LB2	Dhrs4	155224	Set	SET nuclear oncogene	ENSMUSG00000054766
Q811D0	Dlg1	190092	Lrfrn2	leucine rich repeat and fibronectin type III domain containing 2	ENSMUSG000000040490
Q811D0	Dlg1	163599	Lrfrn1	leucine rich repeat and fibronectin type III domain containing 1	ENSMUSG00000030600
Q811D0	Dlg1	132454	Fzd1	frizzled homolog 1 (Drosophila)	ENSMUSG000000044674
Q811D0	Dlg1	198316	Fzd4	frizzled homolog 4 (Drosophila)	ENSMUSG000000049791
Q811D0	Dlg1	158403	Fzd7	frizzled homolog 7 (Drosophila)	ENSMUSG000000041075
Q811D0	Dlg1	137217	Nrcam	neuron-glia-CAM-related cell adhesion molecule	ENSMUSG00000020598
Q811D0	Dlg1	193317	Dlg4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
Q811D0	Dlg1	198905	Dlg2	discs, large homolog 2 (Drosophila)	ENSMUSG00000052572
Q811D0	Dlg1	131990	Grin2a	glutamate receptor, ionotropic, NMDA2A (epsilon 1)	ENSMUSG000000059003
Q811D0	Dlg1	162702	Dlg3	discs, large homolog 3 (Drosophila)	ENSMUSG00000000881
Q811D0	Dlg1	144904	Grin1	glutamate receptor, ionotropic, NMDA1 (zeta 1)	ENSMUSG00000026959
Q811D0	Dlg1	194672	Grin2b	glutamate receptor, ionotropic, NMDA2B (epsilon 2)	ENSMUSG00000030209
Q811D0	Dlg1	201307	Ubc	ubiquitin C	ENSMUSG00000008348
Q811D0	Dlg1	172617	Mapk12	mitogen-activated protein kinase 12	ENSMUSG00000022610
Q811D0	Dlg1	195526	Lin7c	lin-7 homolog C (C. elegans)	ENSMUSG00000027162
Q811D0	Dlg1	133241	Cask	calcium/calmodulin-dependent serine protein kinase (MAP kinase-kinase)	ENSMUSG00000031012
Q61880	Dmc1	179756	Sp3	trans-acting transcription factor 3	ENSMUSG00000027109
Q61880	Dmc1	189469	Cbx5	chromobox homolog 5 (Drosophila HP1a)	ENSMUSG00000009575
Q61880	Dmc1	172468	Setdb1	SET domain, bifurcated 1	ENSMUSG000000015697
Q61880	Dmc1	211789	L3mbtl1	l(3)mbt-like (Drosophila)	ENSMUSG00000035576
Q61880	Dmc1	164939	L3mbtl2	l(3)mbt-like 2 (Drosophila)	ENSMUSG00000022394
Q61712	Dnajc1	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
Q8BUR4	Dock1	142054	Zhx2	zinc fingers and homeoboxes 2	ENSMUSG00000017157
Q8BUR4	Dock1	187241	Elmo3	engulfment and cell motility 3, ced-12 homolog (C. elegans)	ENSMUSG000000014791
Q8BUR4	Dock1	212599	Elmo2	engulfment and cell motility 2, ced-12 homolog (C. elegans)	ENSMUSG00000017670
Q8BUR4	Dock1	144868	Vps37c	vacuolar protein sorting 37C (yeast)	ENSMUSG000000048832
Q8BUR4	Dock1	132929	Elmo1	engulfment and cell motility 1, ced-12 homolog (C. elegans)	ENSMUSG00000041112
P97465	Dok1	158216	Abl1	c-abl oncogene 1, non-receptor tyrosine kinase	ENSMUSG00000026842
P97465	Dok1	193200	Nck1	non-catalytic region of tyrosine kinase adaptor protein 1	ENSMUSG00000032475
P97465	Dok1	36071	ITGB7	integrin, beta 7	ENSG00000139626
P97465	Dok1	53924	ITGB5	integrin, beta 5	ENSG00000082781
P97465	Dok1	547297	ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	ENSG00000259207
P97465	Dok1	5590	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and CD113)	ENSG00000160255
P97465	Dok1	80957	PTPN1	protein tyrosine phosphatase, non-receptor type 1	ENSG00000196396
P97465	Dok1	178553	Inpp5d	inositol polyphosphate-5-phosphatase D	ENSMUSG00000026288
P97465	Dok1	149650	Nck2	non-catalytic region of tyrosine kinase adaptor protein 2	ENSMUSG00000066877
P97465	Dok1	170167	Tec	tec protein tyrosine kinase	ENSMUSG00000029217
P97465	Dok1	170552	Csk	c-src tyrosine kinase	ENSMUSG00000032312
P97465	Dok1	177951	Phgdh	3-phosphoglycerate dehydrogenase	ENSMUSG00000053398
P97465	Dok1	89599	ABL1	c-abl oncogene 1, non-receptor tyrosine kinase	ENSG00000097007
P97465	Dok1	170464	Rasa1	RAS p21 protein activator 1	ENSMUSG00000021549
P97465	Dok1	2349	BCR	breakpoint cluster region	ENSG00000186716
P97465	Dok1	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG00000059923
P97465	Dok1	179481	Dok2	docking protein 2	ENSMUSG000000022102
P97465	Dok1	181393	Ret	ret proto-oncogene	ENSMUSG00000030110
P97465	Dok1	206000	Sirpa	signal-regulatory protein alpha	ENSMUSG00000037902
Q05AA6	Drp2	161168	Prx	periaxin	ENSMUSG00000053198
Q05AA6	Drp2	199494	Dag1	dystroglycan 1	ENSMUSG00000039952
P55849	Dsc1	49784	JUP	junction plakoglobin	ENSG00000173801
P55849	Dsc1	195134	Pkp1	plakophilin 1	ENSMUSG00000026413
P55849	Dsc1	211364	Jup	junction plakoglobin	ENSMUSG00000001552
Q3TLR7	Dti	84499	CUL4B	cullin 4B	ENSG00000158290
Q3TLR7	Dti	11343	COP52	COP9 constitutive photomorphogenic homolog subunit 2	ENSG00000166200

Q3TLR7	Dtl	106535	DTL	denticleless homolog (Drosophila)	ENSG00000143476
Q3TLR7	Dtl	27575	COPS4	COP9 constitutive photomorphogenic homolog subunit 4	ENSG00000138663
Q3TLR7	Dtl	49964	DDB1	damage-specific DNA binding protein 1, 127kDa	ENSG00000167986
Q3TLR7	Dtl	52956	CUL4A	cullin 4A	ENSG00000139842
Q3TLR7	Dtl	30497	COPS6	COP9 constitutive photomorphogenic homolog subunit 6	ENSG00000168090
O88487	Dync1i2	74949	DYNC1I2	dynein, cytoplasmic 1, intermediate chain 2	ENSG00000077380
O88487	Dync1i2	20700	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1	ENSG00000197102
O88487	Dync1i2	35488	DYNC1I2	dynein, cytoplasmic 1, light intermediate chain 2	ENSG00000135720
O88487	Dync1i2	23769	DYNC1LI1	dynein, cytoplasmic 1, light intermediate chain 1	ENSG00000144635
O88487	Dync1i2	60661	DYNLL1	dynein, light chain, LC8-type 1	ENSG00000088986
O88487	Dync1i2	55905	DYNLT3	dynein, light chain, Tctex-type 3	ENSG00000165169
O88487	Dync1i2	68466	DYNLRB1	dynein, light chain, roadblock-type 1	ENSG00000125971
Q922Y0	Dyrk3	189544	Nfatc3	nuclear factor of activated T-cells, cytoplasmic, calcineurin	ENSMUSG00000031902
Q922Y0	Dyrk3	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q922Y0	Dyrk3	75847	SIRT1	sirtuin 1	ENSG00000096717
Q922Y0	Dyrk3	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, hom	ENSMUSG00000020063
Q922Y0	Dyrk3	179036	Dyrk1a	dual-specificity tyrosine-(Y)-phosphorylation regulated kin	ENSMUSG00000022897
Q9D903	Ebna1bp2	147779	Dhx36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	ENSMUSG00000027770
Q9D903	Ebna1bp2	193395	Csda	cold shock domain protein A	ENSMUSG00000030189
Q9D903	Ebna1bp2	183109	Mov10	Moloney leukemia virus 10	ENSMUSG00000002227
Q9D903	Ebna1bp2	195575	Lin28a	lin-28 homolog A (C. elegans)	ENSMUSG00000050966
Q9D903	Ebna1bp2	177350	Ssb	Sjogren syndrome antigen B	ENSMUSG00000068882
Q9D903	Ebna1bp2	148994	Lin28b	lin-28 homolog B (C. elegans)	ENSMUSG00000063804
Q9D903	Ebna1bp2	209747	Igf2bp1	insulin-like growth factor 2 mRNA binding protein 1	ENSMUSG00000013415
Q9D903	Ebna1bp2	172864	Zcchc11	zinc finger, CCHC domain containing 11	ENSMUSG00000034610
Q9D903	Ebna1bp2	157719	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	ENSMUSG00000020075
Q9D903	Ebna1bp2	135334	Pabpc1	poly(A) binding protein, cytoplasmic 1	ENSMUSG00000022283
Q9D903	Ebna1bp2	182925	Ybx1	Y box protein 1	ENSMUSG00000028639
Q9D903	Ebna1bp2	185079	Pabpc4	poly(A) binding protein, cytoplasmic 4	ENSMUSG00000011257
Q9CS74	Ecd	164253	Itgb1bp2	integrin beta 1 binding protein 2	ENSMUSG00000031312
Q8JZ09	Eif3b	181609	Eif3a	eukaryotic translation initiation factor 3, subunit A	ENSMUSG00000024991
Q8JZ09	Eif3b	165187	Eif3k	eukaryotic translation initiation factor 3, subunit K	ENSMUSG00000053565
Q8JZ09	Eif3b	191270	Eif3l	eukaryotic translation initiation factor 3, subunit I	ENSMUSG00000028798
Q8JZ09	Eif3b	139901	Eif3h	eukaryotic translation initiation factor 3, subunit H	ENSMUSG00000022312
Q8JZ09	Eif3b	138056	Eif3g	eukaryotic translation initiation factor 3, subunit G	ENSMUSG000000070319
Q8JZ09	Eif3b	206007	Eif3f	eukaryotic translation initiation factor 3, subunit F	ENSMUSG00000031029
Q8JZ09	Eif3b	137965	Eif3e	eukaryotic translation initiation factor 3, subunit E	ENSMUSG00000022336
Q8JZ09	Eif3b	158541	Eif3d	eukaryotic translation initiation factor 3, subunit D	ENSMUSG00000016554
Q8JZ09	Eif3b	209573	Eif3c	eukaryotic translation initiation factor 3, subunit C	ENSMUSG00000030738
Q8JZ09	Eif3b	145753	Eif4g1	eukaryotic translation initiation factor 4, gamma 1	ENSMUSG000000045983
Q8JZ09	Eif3b	191517	Eif4a1	eukaryotic translation initiation factor 4A1	ENSMUSG00000059796
Q8JZ09	Eif3b	196687	Eif4e	eukaryotic translation initiation factor 4E	ENSMUSG00000028156
Q8JZ09	Eif3b	67809	EIF4G1	eukaryotic translation initiation factor 4 gamma, 1	ENSG00000114867
Q8JZ09	Eif3b	161343	Rps6	ribosomal protein S6	ENSMUSG00000028495
P60843	Eif4a1	167913	Pdcd4	programmed cell death 4	ENSMUSG000000024975
P60843	Eif4a1	145753	Eif4g1	eukaryotic translation initiation factor 4, gamma 1	ENSMUSG000000045983
P60843	Eif4a1	206890	Eif3b	eukaryotic translation initiation factor 3, subunit B	ENSMUSG000000056076
P60843	Eif4a1	19493	PAIP1	poly(A) binding protein interacting protein 1	ENSG00000172239
P60843	Eif4a1	67809	EIF4G1	eukaryotic translation initiation factor 4 gamma, 1	ENSG00000114867
P10630	Eif4a2	17852	DDX24	DEAD (Asp-Glu-Ala-Asp) box polypeptide 24	ENSG00000089737
O08856	Ell	153162	Stat1	signal transducer and activator of transcription 1	ENSMUSG00000026104
O08856	Ell	211954	Ezh1	enhancer of zeste homolog 1 (Drosophila)	ENSMUSG00000006920
O08856	Ell	187572	Mtf2	metal response element binding transcription factor 2	ENSMUSG00000029267
O08856	Ell	190814	Rbbp4	retinoblastoma binding protein 4	ENSMUSG00000057236
O08856	Ell	203783	Suz12	suppressor of zeste 12 homolog (Drosophila)	ENSMUSG000000017548
O08856	Ell	196120	Aebp2	AE binding protein 2	ENSMUSG00000030232
O08856	Ell	178190	Morc3	microrchidia 3	ENSMUSG000000039456
O08856	Ell	159635	Stk38	serine/threonine kinase 38	ENSMUSG000000024006
O08856	Ell	165162	BC018507	cDNA sequence BC018507	ENSMUSG00000034525
O08856	Ell	198429	Stk38l	serine/threonine kinase 38 like	ENSMUSG000000001630
O08856	Ell	136486	Bclaf1	BCL2-associated transcription factor 1	ENSMUSG000000037608
O08856	Ell	188132	Thrap3	thyroid hormone receptor associated protein 3	ENSMUSG000000043962
O08856	Ell	175374	Trim35	tripartite motif-containing 35	ENSMUSG000000022043
O08856	Ell	198609	Eed	embryonic ectoderm development	ENSMUSG000000030619
O08856	Ell	153367	Setx	senataxin	ENSMUSG000000043535
O08856	Ell	147776	Jarid2	jumonij, AT rich interactive domain 2	ENSMUSG000000038518
O08856	Ell	143636	Ezh2	enhancer of zeste homolog 2 (Drosophila)	ENSMUSG00000029687
O08856	Ell	197855	Ivns1abp	influenza virus NS1A binding protein	ENSMUSG000000023150
Q61549	Emr1	190185	Sfp1	SFFV proviral integration 1	ENSMUSG00000002111
Q61549	Emr1	26868	ELF1	E74-like factor 1 (ets domain transcription factor)	ENSG00000120690
Q61549	Emr1	85951	ELF4	E74-like factor 4 (ets domain transcription factor)	ENSG00000102034
P21550	Eno3	192076	Mef2a	myocyte enhancer factor 2A	ENSMUSG00000030557
Q8C014	Epc2	186954	Ldha	lactate dehydrogenase A	ENSMUSG000000063229
Q8C014	Epc2	158996	Hdgp	hepatoma-derived growth factor	ENSMUSG00000004897
Q8C014	Epc2	208186	Trrap	transformation/transcription domain-associated protein	ENSMUSG000000045482
Q8C014	Epc2	190143	Ep400	E1A binding protein p400	ENSMUSG00000029505
Q8C014	Epc2	132192	Kat5	K(lysine) acetyltransferase 5	ENSMUSG00000024926
Q8C014	Epc2	179881	Dmap1	DNA methyltransferase 1-associated protein 1	ENSMUSG00000009640
Q8C014	Epc2	182674	Ciapi1	cytokine induced apoptosis inhibitor 1	ENSMUSG000000031781
Q8C014	Epc2	135252	Brd8	bromodomain containing 8	ENSMUSG000000003778
Q8C014	Epc2	190649	Morf4l1	mortality factor 4 like 1	ENSMUSG000000062270
Q8C014	Epc2	161272	Actg2	actin, gamma 2, smooth muscle, enteric	ENSMUSG000000059430
Q8C014	Epc2	207470	Actb	actin, beta	ENSMUSG000000029580
Q8C014	Epc2	136942	Actl6a	actin-like 6A	ENSMUSG000000027671
Q8C014	Epc2	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG000000062825
Q8C014	Epc2	129480	Inq3	inhibitor of growth family, member 3	ENSMUSG00000029670
Q8C014	Epc2	102316	VPS72	vacuolar protein sorting 72 homolog (S. cerevisiae)	ENSG00000163159
Q8C014	Epc2	127970	Epc1	enhancer of polycomb homolog 1 (Drosophila)	ENSMUSG00000024240
Q8C014	Epc2	151490	Max	Max protein	ENSMUSG000000059436

Q8C014	Epc2	144556	Myc	myelocytomatosis oncogene	ENSMUSG00000022346
Q60750	Epha1	10872	CHN2	chimerin (chimaerin) 2	ENSG00000106069
Q60750	Epha1	14206	EFNA2	ephrin-A2	ENSG00000099617
Q60750	Epha1	163843	Efna4	ephrin A4	ENSMUSG00000028040
Q60750	Epha1	148681	Chn2	chimerin (chimaerin) 2	ENSMUSG00000004633
Q60750	Epha1	64876	SMURF2	SMAD specific E3 ubiquitin protein ligase 2	ENSG00000108854
Q99K30	Eps8l2	199779	Acta1	actin, alpha 1, skeletal muscle	ENSMUSG00000031972
Q9EQH2	Erap1	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
P70424	ErbB2	179382	ErbB2ip	ErbB2 interacting protein	ENSMUSG00000021709
P70424	ErbB2	197943	ErbB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog	ENSMUSG00000018166
P70424	ErbB2	24405	ERBB2IP	erbB2 interacting protein	ENSG00000112851
Q80TH2	ErbB2ip	175693	Smad3	MAD homolog 3 (Drosophila)	ENSMUSG00000032402
Q80TH2	ErbB2ip	159056	Smad2	MAD homolog 2 (Drosophila)	ENSMUSG00000024563
Q80TH2	ErbB2ip	170516	Smad1	MAD homolog 1 (Drosophila)	ENSMUSG00000031681
Q80TH2	ErbB2ip	157503	Smad4	MAD homolog 4 (Drosophila)	ENSMUSG00000024515
Q80TH2	ErbB2ip	158890	Smad7	MAD homolog 7 (Drosophila)	ENSMUSG00000025880
Q80TH2	ErbB2ip	210591	ErbB2	v-erb-b2 erythroblastic leukemia viral oncogene homolog	ENSMUSG00000062312
Q80TH2	ErbB2ip	46068	ERBB2	v-erb-b2 erythroblastic leukemia viral oncogene homolog	ENSG00000141736
Q80TH2	ErbB2ip	27347	CTNNB1	catenin (cadherin-associated protein), beta 1, 88kDa	ENSG00000168036
Q80TH2	ErbB2ip	37007	APC	adenomatous polyposis coli	ENSG00000134982
Q80TH2	ErbB2ip	53133	REL	v-rel reticuloendotheliosis viral oncogene homolog (avian)	ENSG00000162924
Q80TH2	ErbB2ip	193317	Dlg4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
Q80TH2	ErbB2ip	172382	Pkp4	plakophilin 4	ENSMUSG00000026991
Q80TH2	ErbB2ip	18366	SMAD3	SMAD family member 3	ENSG00000166949
Q61526	ErbB3	210591	ErbB2	v-erb-b2 erythroblastic leukemia viral oncogene homolog	ENSMUSG00000062312
Q61526	ErbB3	39891	PA2G4	proliferation-associated 2G4, 38kDa	ENSG00000170515
Q9EQY0	Ern1	189844	Tnfrsf1a	tumor necrosis factor receptor superfamily, member 1a	ENSMUSG00000030341
Q9Z191	Eya4	207066	Mavs	mitochondrial antiviral signaling protein	ENSMUSG00000037523
Q9Z191	Eya4	137341	Tmem173	transmembrane protein 173	ENSMUSG00000024349
Q9Z191	Eya4	156238	NlrX1	NLR family member X1	ENSMUSG00000032109
Q9Z191	Eya4	148158	Six1	sine oculis-related homeobox 1 homolog (Drosophila)	ENSMUSG00000051367
Q9Z191	Eya4	201038	Six2	sine oculis-related homeobox 2 homolog (Drosophila)	ENSMUSG00000024134
Q61188	Ezh2	198609	Eed	embryonic ectoderm development	ENSMUSG00000030619
Q61188	Ezh2	211954	Ezh1	enhancer of zeste homolog 1 (Drosophila)	ENSMUSG00000006920
Q61188	Ezh2	187572	Mtf2	metal response element binding transcription factor 2	ENSMUSG000000029267
Q61188	Ezh2	190814	Rbbp4	retinoblastoma binding protein 4	ENSMUSG00000057236
Q61188	Ezh2	203783	Suz12	suppressor of zeste 12 homolog (Drosophila)	ENSMUSG00000017548
Q61188	Ezh2	196120	Aebp2	AE binding protein 2	ENSMUSG00000030232
Q61188	Ezh2	178190	Morc3	microorchidia 3	ENSMUSG00000039456
Q61188	Ezh2	159635	Stk38	serine/threonine kinase 38	ENSMUSG000000024006
Q61188	Ezh2	165162	BC018507	cDNA sequence BC018507	ENSMUSG00000034525
Q61188	Ezh2	198429	Stk38l	serine/threonine kinase 38 like	ENSMUSG0000001630
Q61188	Ezh2	136486	Bclaf1	BCL2-associated transcription factor 1	ENSMUSG00000037608
Q61188	Ezh2	188132	Thrap3	thyroid hormone receptor associated protein 3	ENSMUSG00000043962
Q61188	Ezh2	163429	Ell	elongation factor RNA polymerase II	ENSMUSG00000070002
Q61188	Ezh2	175374	Trim35	tripartite motif-containing 35	ENSMUSG00000022043
Q61188	Ezh2	153367	Setx	senataxin	ENSMUSG00000043535
Q61188	Ezh2	147776	Jarid2	jumoni1, AT rich interactive domain 2	ENSMUSG00000038518
Q61188	Ezh2	183758	Rbbp7	retinoblastoma binding protein 7	ENSMUSG00000031353
Q61188	Ezh2	183812	Cited4	Cbp/p300-interacting transactivator, with Glu/Asp-rich car	ENSMUSG00000070803
Q61188	Ezh2	155713	Phf1	PHD finger protein 1	ENSMUSG00000024193
Q61188	Ezh2	207053	Arntl	aryl hydrocarbon receptor nuclear translocator-like	ENSMUSG00000055116
Q61188	Ezh2	179578	Rbl2	retinoblastoma-like 2	ENSMUSG00000031666
Q61188	Ezh2	172856	Clock	circadian locomotor output cycles kaput	ENSMUSG00000029238
Q61188	Ezh2	156033	Htt	huntingtin	ENSMUSG000000029104
Q61188	Ezh2	181230	Cry1	cryptochrom 1 (photolyase-like)	ENSMUSG00000020038
Q61188	Ezh2	191058	Hdac1	histone deacetylase 1	ENSMUSG00000028800
Q61188	Ezh2	62820	JARID2	jumoni1, AT rich interactive domain 2	ENSG00000008083
O88792	F11r	161096	Pick1	protein interacting with C kinase 1	ENSMUSG00000068206
O88792	F11r	159280	Mpdz	multiple PDZ domain protein	ENSMUSG00000028402
O88792	F11r	57627	CASK	calcium/calmodulin-dependent serine protein kinase (MAC	ENSG00000147044
O88792	F11r	191207	Ptprb	protein tyrosine phosphatase, receptor type, B	ENSMUSG00000020154
Q8R1F1	Fam129b	86083	FAM129B	family with sequence similarity 129, member B	ENSG00000136830
Q3UJU9	Fam82a2	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor	ENSG00000145335
Q3UJU9	Fam82a2	82596	VAPB	VAMP (vesicle-associated membrane protein)-associated d	ENSG00000124164
Q3UJU9	Fam82a2	6587	FAM82A2	family with sequence similarity 82, member A2	ENSG00000137824
Q9JL70	Fanca	139854	Fancq	Fanconi anemia, complementation group G	ENSMUSG00000028453
P50652	Fancc	72343	C17orf70	chromosome 17 open reading frame 70	ENSG00000185504
P50652	Fancc	45687	FANCB	Fanconi anemia, complementation group B	ENSG00000181544
P50652	Fancc	84018	FANCE	Fanconi anemia, complementation group E	ENSG00000112039
P50652	Fancc	45070	LASP1	LIM and SH3 protein 1	ENSG00000002834
P50652	Fancc	128794	Gstp1	glutathione S-transferase, pi 1	ENSMUSG00000060803
P50652	Fancc	204005	Por	P450 (cytochrome) oxidoreductase	ENSMUSG00000005514
P41047	Fasl	168522	Pstpip1	proline-serine-threonine phosphatase-interacting protein	ENSMUSG00000032322
P41047	Fasl	137313	Ptpn12	protein tyrosine phosphatase, non-receptor type 12	ENSMUSG00000028771
P19096	Fasn	135771	Prkdc	protein kinase, DNA activated, catalytic polypeptide	ENSMUSG00000022672
P19096	Fasn	165686	Xrcc5	X-ray repair complementing defective repair in Chinese ha	ENSMUSG00000026187
P19096	Fasn	204574	Usf1	upstream transcription factor 1	ENSMUSG00000026641
P19096	Fasn	190822	Kat2b	K(llysine) acetyltransferase 2B	ENSMUSG00000000708
P19096	Fasn	133323	Top2b	topoisomerase (DNA) II beta	ENSMUSG000000017485
Q8CD12	Fbxo43	181497	Cdc20	cell division cycle 20 homolog (S. cerevisiae)	ENSMUSG00000006398
Q8K3B1	Fbxo45	36944	UNC13A	unc-13 homolog A (C. elegans)	ENSG00000130477
Q8K3B1	Fbxo45	44621	SKP1	S-phase kinase-associated protein 1	ENSG00000113558
Q8K3B1	Fbxo45	64029	UBC	ubiquitin C	ENSG00000150991
Q8K285	Fcho1	28871	SMURF1	SMAD specific E3 ubiquitin protein ligase 1	ENSG00000198742
Q8K285	Fcho1	72930	ACVR1	activin A receptor, type I	ENSG00000115170
Q3UQN2	Fcho2	201307	Ubc	ubiquitin C	ENSMUSG00000008348
Q920A9	Fcrla	146254	Traf2	TNF receptor-associated factor 2	ENSMUSG00000026942
P16879	Fes	213066	Nsf	N-ethylmaleimide sensitive fusion protein	ENSMUSG00000034187

O35450	Fkbp1	163730	Traf1	TNF receptor-associated factor 1	ENSMUSG00000026875
O35450	Fkbp1	172055	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member	ENSMUSG00000021270
O35450	Fkbp1	159848	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)	ENSMUSG00000023067
P11276	Fn1	195070	Plcg2	phospholipase C, gamma 2	ENSMUSG00000034330
P11276	Fn1	171670	Maq	myelin-associated glycoprotein	ENSMUSG00000036634
P11276	Fn1	213175	Itgb3	integrin beta 3	ENSMUSG00000020689
P11276	Fn1	189590	Itga5	integrin alpha 5 (fibronectin receptor alpha)	ENSMUSG00000005555
Q9R1E0	Foxo1	200763	Lrrpprc	leucine-rich PPR-motif containing	ENSMUSG00000024120
Q9R1E0	Foxo1	9819	TSC2	tuberous sclerosis 2	ENSG00000103197
Q9R1E0	Foxo1	173713	Cebpa	CCAAT/enhancer binding protein (C/EBP), alpha	ENSMUSG00000034957
Q9R1E0	Foxo1	172131	Wdfy2	WD repeat and FYVE domain containing 2	ENSMUSG00000014547
Q9R1E0	Foxo1	174623	Akt1	thymoma viral proto-oncogene 1	ENSMUSG00000001729
Q9R1E0	Foxo1	160992	Lmna	lamin A	ENSMUSG00000028063
Q9R1E0	Foxo1	262062	Gm3272	predicted pseudogene 3272	ENSMUSG000000078967
Q9R1E0	Foxo1	73722	AR	androgen receptor	ENSG00000169083
Q9R1E0	Foxo1	128986	Foxp3	forkhead box P3	ENSMUSG00000039521
Q9R1E0	Foxo1	221122	Mir182	microRNA 182	ENSMUSG00000076361
Q9R1E0	Foxo1	183749	Il17ra	interleukin 17 receptor A	ENSMUSG00000002897
Q9R1E0	Foxo1	195189	Nr0b2	nuclear receptor subfamily 0, group B, member 2	ENSMUSG00000037583
Q9R1E0	Foxo1	147651	Tsc2	tuberous sclerosis 2	ENSMUSG00000002496
Q9R1E0	Foxo1	64971	KLK3	kallikrein-related peptidase 3	ENSG00000142515
Q9R1E0	Foxo1	12340	CREBBP	CREB binding protein	ENSG00000005339
Q9R1E0	Foxo1	161433	Ar	androgen receptor	ENSMUSG00000046532
Q9R1E0	Foxo1	181579	Hdac4	histone deacetylase 4	ENSMUSG00000026313
Q9WVW4	Fxr2	155533	Dmrt2	doublesex and mab-3 related transcription factor 2	ENSMUSG000000048138
O70421	Fzd1	193317	Dlg4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
O70421	Fzd1	71508	DLG1	discs, large homolog 1 (Drosophila)	ENSG00000075711
O70421	Fzd1	198905	Dlg2	discs, large homolog 2 (Drosophila)	ENSMUSG000000052572
O70421	Fzd1	152959	Dlg1	discs, large homolog 1 (Drosophila)	ENSMUSG00000022770
O70421	Fzd1	128306	Lrp5	low density lipoprotein receptor-related protein 5	ENSMUSG000000024913
O70421	Fzd1	170604	Wnt7b	wingless-related MMTV integration site 7B	ENSMUSG00000022382
O70421	Fzd1	181251	Wnt1	wingless-related MMTV integration site 1	ENSMUSG00000022997
Q9WV18	Gabbr1	209151	Cst3	cystatin C	ENSMUSG00000027447
Q9WV18	Gabbr1	185288	Sparcl1	SPARC-like 1	ENSMUSG00000029309
Q9WV18	Gabbr1	168935	Aplp1	amyloid beta (A4) precursor-like protein 1	ENSMUSG00000006651
Q9WV18	Gabbr1	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
Q9WV18	Gabbr1	155394	Thy1	thymus cell antigen 1, theta	ENSMUSG00000032011
Q9WV18	Gabbr1	207129	Spon1	spondin 1, (F-spondin) extracellular matrix protein	ENSMUSG000000038156
Q9WV18	Gabbr1	146661	Aplp2	amyloid beta (A4) precursor-like protein 2	ENSMUSG00000031996
Q9WV18	Gabbr1	211078	Oat	ornithine aminotransferase	ENSMUSG00000030934
Q9WV18	Gabbr1	151663	Mat1a	methionine adenosyltransferase I, alpha	ENSMUSG00000037798
Q9WV18	Gabbr1	172954	App	amyloid beta (A4) precursor protein	ENSMUSG00000022892
Q9WV18	Gabbr1	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
Q9WV18	Gabbr1	131138	Calu	calumenin	ENSMUSG00000029767
Q9WV18	Gabbr1	152814	Ppp1r2	protein phosphatase 1, regulatory (inhibitor) subunit 2	ENSMUSG000000047714
Q9WV18	Gabbr1	196143	Epb4.113	erythrocyte protein band 4.1-like 3	ENSMUSG00000024044
Q9WV18	Gabbr1	178669	Ppiib	peptidylprolyl isomerase B	ENSMUSG00000032383
Q9WV18	Gabbr1	174959	Calr	calreticulin	ENSMUSG00000003814
Q9WV18	Gabbr1	182078	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	ENSMUSG00000020048
Q9WV18	Gabbr1	168591	Canx	calnexin	ENSMUSG000000020368
Q9WV18	Gabbr1	176351	Cntn1	contactin 1	ENSMUSG00000055022
Q9WV18	Gabbr1	163105	Ncam1	neural cell adhesion molecule 1	ENSMUSG00000039542
Q9WV18	Gabbr1	168462	Rcn2	reticulocalbin 2	ENSMUSG000000032320
Q9WV18	Gabbr1	205238	Clstn1	calsyntenin 1	ENSMUSG00000039953
Q9WV18	Gabbr1	157064	Hyou1	hypoxia up-regulated 1	ENSMUSG000000032115
Q9WV18	Gabbr1	171290	Hspa4	heat shock protein 4	ENSMUSG00000020361
Q9WV18	Gabbr1	175327	Srqa3	SLIT-ROBO Rho GTPase activating protein 3	ENSMUSG00000030257
Q9WV18	Gabbr1	141546	Ganab	alpha glucosidase 2 alpha neutral subunit	ENSMUSG00000071650
Q9WV18	Gabbr1	192274	Nfasc	neurofascin	ENSMUSG00000026442
Q9WV18	Gabbr1	178513	Atp2b2	ATPase, Ca++ transporting, plasma membrane 2	ENSMUSG000000030302
Q9WV18	Gabbr1	146362	Erp44	endoplasmic reticulum protein 44	ENSMUSG00000028343
Q9WV18	Gabbr1	168858	Linqo1	leucine rich repeat and Iq domain containing 1	ENSMUSG00000049556
Q9WV18	Gabbr1	186875	Clstn3	calsyntenin 3	ENSMUSG000000008153
Q9WV18	Gabbr1	260830	Prnp	prion protein	ENSMUSG00000079037
Q9WV18	Gabbr1	158252	Cpe	carboxypeptidase E	ENSMUSG000000037852
Q9WV18	Gabbr1	133363	Grm1	glutamate receptor, metabotropic 1	ENSMUSG00000019828
P62812	Gabra1	195763	Ppp3ca	protein phosphatase 3, catalytic subunit, alpha isoform	ENSMUSG00000028161
P63137	Gabrb2	195763	Ppp3ca	protein phosphatase 3, catalytic subunit, alpha isoform	ENSMUSG00000028161
Q99KY4	Gak	153874	Il12rb2	interleukin 12 receptor, beta 2	ENSMUSG00000018341
P23772	Gata3	31309	NR2F2	nuclear receptor subfamily 2, group F, member 2	ENSG00000185551
P23772	Gata3	172024	Il4	interleukin 4	ENSMUSG00000000869
P23772	Gata3	190185	Sfpi1	SFFV proviral integration 1	ENSMUSG00000002111
P23772	Gata3	196773	Runx3	runt related transcription factor 3	ENSMUSG00000070691
P23772	Gata3	195602	Stat6	signal transducer and activator of transcription 6	ENSMUSG00000002147
P23772	Gata3	172892	Il3	interleukin 3	ENSMUSG000000018914
P23772	Gata3	173351	Ecm1	extracellular matrix protein 1	ENSMUSG00000028108
P23772	Gata3	210500	Med1	mediator complex subunit 1	ENSMUSG00000018160
P23772	Gata3	170640	Ppara	peroxisome proliferator activated receptor alpha	ENSMUSG00000022383
P23772	Gata3	210153	Tbx21	T-box 21	ENSMUSG00000001444
P58501	Gcfc1	144904	Grin1	glutamate receptor, ionotropic, NMDA1 (zeta 1)	ENSMUSG00000026959
P03995	Gfap	135418	Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000022285
P03995	Gfap	201307	Ubc	ubiquitin C	ENSMUSG00000008348
P28229	Gjc1	4684	TJP1	tight junction protein 1 (zona occludens 1)	ENSG00000104067
P28229	Gjc1	152172	Gja1	gap junction protein, alpha 1	ENSMUSG00000050953
P28229	Gjc1	191302	Tjp1	tight junction protein 1	ENSMUSG00000030516
P28229	Gjc1	177759	Tjp3	tight junction protein 3	ENSMUSG00000034917
P28229	Gjc1	17677	TJP3	tight junction protein 3 (zona occludens 3)	ENSG00000105289
Q8K297	Glt25d1	160992	Lmna	lamin A	ENSMUSG00000028063
P50247	Gm4737	163730	Traf1	TNF receptor-associated factor 1	ENSMUSG00000026875

P58929	Gmeb2	193716	Gmeb1	glucocorticoid modulatory element binding protein 1	ENSMUSG00000028901
P58929	Gmeb2	203220	Ubp1	upstream binding protein 1	ENSMUSG00000009741
P58929	Gmeb2	161559	Vax2	ventral anterior homeobox containing gene 2	ENSMUSG00000034777
P58929	Gmeb2	166617	Lhx2	LIM homeobox protein 2	ENSMUSG00000000247
P58929	Gmeb2	136423	Zfp277	zinc finger protein 277	ENSMUSG00000055917
P58929	Gmeb2	189829	Mcm6	minichromosome maintenance deficient 6 (MIS5 homolog)	ENSMUSG00000026355
P58929	Gmeb2	210081	Sp2	Sp2 transcription factor	ENSMUSG00000018678
P58929	Gmeb2	146608	E4f1	E4F transcription factor 1	ENSMUSG00000024137
P58929	Gmeb2	144745	Xbp1	X-box binding protein 1	ENSMUSG00000020484
P58929	Gmeb2	195445	Nfkb1	nuclear factor of kappa light polypeptide gene enhancer in	ENSMUSG00000028163
P58929	Gmeb2	145390	Aebp1	AE binding protein 1	ENSMUSG00000020473
P58929	Gmeb2	205730	Polr1b	polymerase (RNA) I polypeptide B	ENSMUSG00000027395
Q9CW79	Golqa1	150968	Gopc	golgi associated PDZ and coiled-coil motif containing	ENSMUSG00000019861
Q921M4	Golqa2	183622	Stk25	serine/threonine kinase 25 (yeast)	ENSMUSG00000026277
P23818	Gria1	134233	Exoc4	exocyst complex component 4	ENSMUSG00000029763
P23818	Gria1	214441	Exoc7	exocyst complex component 7	ENSMUSG00000020792
P23818	Gria1	153567	Gria2	glutamate receptor, ionotropic, AMPA2 (alpha 2)	ENSMUSG00000033981
P23818	Gria1	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG00000027273
P23818	Gria1	203389	Stx1a	syntaxin 1A (brain)	ENSMUSG00000007207
P23818	Gria1	207019	Cltc	clathrin, heavy polypeptide (Hc)	ENSMUSG00000047126
P23818	Gria1	193317	Dlg4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
P23818	Gria1	150657	Camk2a	calcium/calmodulin-dependent protein kinase II alpha	ENSMUSG00000024617
P23818	Gria1	210393	Stx1b	syntaxin 1B	ENSMUSG00000030806
P23818	Gria1	168358	Sqstm1	sequestosome 1	ENSMUSG00000015837
P23818	Gria1	61811	SQSTM1	sequestosome 1	ENSG00000161011
P23818	Gria1	26846	HOMER2	homer homolog 2 (Drosophila)	ENSG00000103942
P23818	Gria1	212642	Grn	granulin	ENSMUSG00000034708
P23818	Gria1	212876	Cttn	cortactin	ENSMUSG00000031078
P23818	Gria1	140717	Gria3	glutamate receptor, ionotropic, AMPA3 (alpha 3)	ENSMUSG00000001986
P23818	Gria1	136511	Hspa9	heat shock protein 9	ENSMUSG00000024359
P23818	Gria1	221928	Cacng8	calcium channel, voltage-dependent, gamma subunit 8	ENSMUSG00000053395
P23818	Gria1	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
P23818	Gria1	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
P23818	Gria1	131447	Gria4	glutamate receptor, ionotropic, AMPA4 (alpha 4)	ENSMUSG00000025892
P23818	Gria1	196404	Naca	nascent polypeptide-associated complex alpha polypeptide	ENSMUSG00000061315
P23818	Gria1	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG00000043091
P23818	Gria1	211468	Cnp	2',3'-cyclic nucleotide 3' phosphodiesterase	ENSMUSG00000006782
P23819	Gria2	161096	Pick1	protein interacting with C kinase 1	ENSMUSG00000068206
P23819	Gria2	192287	Grip1	glutamate receptor interacting protein 1	ENSMUSG00000034813
P23819	Gria2	168910	Cspg4	chondroitin sulfate proteoglycan 4	ENSMUSG00000032911
P23819	Gria2	214441	Exoc7	exocyst complex component 7	ENSMUSG00000020792
P23819	Gria2	134233	Exoc4	exocyst complex component 4	ENSMUSG00000029763
P23819	Gria2	167158	Exoc3	exocyst complex component 3	ENSMUSG00000034152
P23819	Gria2	175573	Gria1	glutamate receptor, ionotropic, AMPA1 (alpha 1)	ENSMUSG00000020524
P23819	Gria2	168358	Sqstm1	sequestosome 1	ENSMUSG00000015837
P23819	Gria2	61811	SQSTM1	sequestosome 1	ENSG00000161011
P23819	Gria2	212642	Grn	granulin	ENSMUSG00000034708
P23819	Gria2	212876	Cttn	cortactin	ENSMUSG00000031078
P23819	Gria2	140717	Gria3	glutamate receptor, ionotropic, AMPA3 (alpha 3)	ENSMUSG00000001986
P23819	Gria2	136511	Hspa9	heat shock protein 9	ENSMUSG00000024359
P23819	Gria2	221928	Cacng8	calcium channel, voltage-dependent, gamma subunit 8	ENSMUSG00000053395
P23819	Gria2	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
P23819	Gria2	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
P23819	Gria2	131447	Gria4	glutamate receptor, ionotropic, AMPA4 (alpha 4)	ENSMUSG00000025892
P23819	Gria2	196404	Naca	nascent polypeptide-associated complex alpha polypeptide	ENSMUSG00000061315
P23819	Gria2	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG00000043091
P23819	Gria2	211468	Cnp	2',3'-cyclic nucleotide 3' phosphodiesterase	ENSMUSG00000006782
P23819	Gria2	158793	Atad1	ATPase family, AAA domain containing 1	ENSMUSG00000013662
Q922W8	Gria4	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
Q922W8	Gria4	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
Q922W8	Gria4	212876	Cttn	cortactin	ENSMUSG00000031078
Q922W8	Gria4	175573	Gria1	glutamate receptor, ionotropic, AMPA1 (alpha 1)	ENSMUSG00000020524
Q922W8	Gria4	153567	Gria2	glutamate receptor, ionotropic, AMPA2 (alpha 2)	ENSMUSG00000033981
Q922W8	Gria4	140717	Gria3	glutamate receptor, ionotropic, AMPA3 (alpha 3)	ENSMUSG00000001986
Q922W8	Gria4	196404	Naca	nascent polypeptide-associated complex alpha polypeptide	ENSMUSG00000061315
Q922W8	Gria4	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG00000043091
Q922W8	Gria4	211468	Cnp	2',3'-cyclic nucleotide 3' phosphodiesterase	ENSMUSG00000006782
Q61627	Grid1	150968	Gopc	golgi associated PDZ and coiled-coil motif containing	ENSMUSG00000019861
Q61625	Grid2	187609	Ptpn4	protein tyrosine phosphatase, non-receptor type 4	ENSMUSG00000026384
Q61625	Grid2	150968	Gopc	golgi associated PDZ and coiled-coil motif containing	ENSMUSG00000019861
Q61625	Grid2	212053	Becn1	beclin 1, autophagy related	ENSMUSG00000035086
Q61625	Grid2	156201	Grik5	glutamate receptor, ionotropic, kainate 5 (gamma 2)	ENSMUSG00000003378
Q61625	Grid2	178238	Cbln1	cerebellin 1 precursor protein	ENSMUSG00000031654
Q61625	Grid2	201803	Nrxn1	neurexin I	ENSMUSG00000024109
Q61625	Grid2	160964	Nrxn3	neurexin III	ENSMUSG00000066392
Q61625	Grid2	207711	Grid2ip	glutamate receptor, ionotropic, delta 2 (Grid2) interacting	ENSMUSG00000010825
Q61625	Grid2	212862	Shank2	SH3/ankyrin domain gene 2	ENSMUSG000000037541
Q61626	Grik5	152790	Grid2	glutamate receptor, ionotropic, delta 2	ENSMUSG000000071424
Q8VD04	Gripap1	148417	Mapk8	mitogen-activated protein kinase 8	ENSMUSG00000021936
Q8VD04	Gripap1	182342	Map3k1	mitogen-activated protein kinase kinase 1	ENSMUSG00000021754
Q8VD04	Gripap1	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q8VEB1	Grk5	53295	HDAC5	histone deacetylase 5	ENSG00000108840
Q2NLS1	Gsk3a	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG00000004040
Q2NLS1	Gsk3a	135936	Ifngr1	interferon gamma receptor 1	ENSMUSG00000020009
Q2NLS1	Gsk3a	184766	Ctndn1	catenin (cadherin associated protein), delta 1	ENSMUSG00000034101
Q2NLS1	Gsk3a	197968	Ppp1cc	protein phosphatase 1, catalytic subunit, gamma isoform	ENSMUSG00000004455
P13020	Gsn	195070	Plcg2	phospholipase C, gamma 2	ENSMUSG00000034330
Q149F3	Gspst2	38885	UPF1	UPF1 regulator of nonsense transcripts homolog (yeast)	ENSG00000005007
Q9D902	Gtf2e2	174265	Poc5	POC5 centriolar protein homolog (Chlamydomonas)	ENSMUSG00000021671

Q9D902	Gtf2e2	141021	Ikkbb	inhibitor of kappaB kinase beta	ENSMUSG00000031537
Q9D902	Gtf2e2	189502	Nfe2	nuclear factor, erythroid derived 2	ENSMUSG00000058794
Q9D902	Gtf2e2	159505	Gtf2e1	general transcription factor II E, polypeptide 1 (alpha subunit)	ENSMUSG00000022828
Q9D902	Gtf2e2	191571	Khdrbs1	KH domain containing, RNA binding, signal transduction associated protein 1	ENSMUSG00000028790
Q9D902	Gtf2e2	184959	Dazap2	DAZ associated protein 2	ENSMUSG00000000346
Q9D902	Gtf2e2	204739	Tardbp	TAR DNA binding protein	ENSMUSG00000041459
Q9D902	Gtf2e2	171712	Pml	promyelocytic leukemia	ENSMUSG00000036986
Q9D902	Gtf2e2	161051	Tlx3	T-cell leukemia, homeobox 3	ENSMUSG00000040610
Q3THK3	Gtf2f1	213090	Cebpb	CCAAT/enhancer binding protein (C/EBP), beta	ENSMUSG00000056501
P0C056	H2afz	171427	Btk	Bruton agammaglobulinemia tyrosine kinase	ENSMUSG000000031264
P53702	Hccs	156517	Slc1a1	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter)	ENSMUSG00000024935
P53702	Hccs	141324	Xiap	X-linked inhibitor of apoptosis	ENSMUSG00000025860
P53702	Hccs	133125	Birc2	baculoviral IAP repeat-containing 2	ENSMUSG00000057367
P53702	Hccs	133177	Birc3	baculoviral IAP repeat-containing 3	ENSMUSG000000032000
P53702	Hccs	85142	XIAP	X-linked inhibitor of apoptosis	ENSG00000101966
Q6NVF4	Helb	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q60848	Hells	127800	Dnmt3a	DNA methyltransferase 3A	ENSMUSG00000020661
Q60848	Hells	210140	Dnmt3b	DNA methyltransferase 3B	ENSMUSG00000027478
Q60848	Hells	214665	Cbx2	chromobox homolog 2 (Drosophila Pc class)	ENSMUSG00000025577
Q60848	Hells	139744	Bmi1	Bmi1 polycomb ring finger oncogene	ENSMUSG000000026739
Q60848	Hells	210296	Pcaf2	polycomb group ring finger 2	ENSMUSG00000018537
Q60848	Hells	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG00000024406
Q60848	Hells	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG000000026380
Q6DFV5	Helz	132723	Sh3yl1	Sh3 domain YSC-like 1	ENSMUSG00000020669
Q6DFV5	Helz	208502	Smyd2	SET and MYND domain containing 2	ENSMUSG000000026603
P35428	Hes1	151388	Rxra	retinoid X receptor alpha	ENSMUSG00000015846
P35428	Hes1	150133	Trp63	transformation related protein 63	ENSMUSG000000022510
P35428	Hes1	140708	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells	ENSMUSG00000021025
P35428	Hes1	132298	Rela	v-rel reticuloendotheliosis viral oncogene homolog A (avian)	ENSMUSG00000024927
P35428	Hes1	191058	Hdac1	histone deacetylase 1	ENSMUSG000000028800
P35428	Hes1	212520	Hdac5	histone deacetylase 5	ENSMUSG00000008855
P35428	Hes1	169132	Chuk	conserved helix-loop-helix ubiquitous kinase	ENSMUSG00000025199
P35428	Hes1	141021	Ikkbb	inhibitor of kappaB kinase beta	ENSMUSG00000031537
P35428	Hes1	73128	TLE1	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)	ENSG00000196781
P35428	Hes1	181149	Hes6	hairly and enhancer of split 6 (Drosophila)	ENSMUSG000000067071
P35428	Hes1	129513	Crebbp	CREB binding protein	ENSMUSG00000022521
P35428	Hes1	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, homolog 1)	ENSMUSG00000020063
P35428	Hes1	156977	Jak2	Janus kinase 2	ENSMUSG000000024789
Q08048	Hgf	37371	MET	met proto-oncogene (hepatocyte growth factor receptor)	ENSG00000105976
Q9R1Y5	Hic1	177837	Tcf7l2	transcription factor 7-like 2, T-cell specific, HMG-box	ENSMUSG000000024985
Q9R1Y5	Hic1	75847	SIRT1	sirtuin 1	ENSG00000096717
Q9R1Y5	Hic1	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, homolog 1)	ENSMUSG00000020063
Q9JKY5	Hip1r	155851	Arhgef1	Rho guanine nucleotide exchange factor (GEF) 1	ENSMUSG000000040940
Q9JKY5	Hip1r	633642	CLTA	clathrin, light chain A	ENSBTAG00000001137
Q9JKY5	Hip1r	645068	CLTB	clathrin, light chain B	ENSBTAG00000010740
O88904	Hipk1	21462	PML	promyelocytic leukemia	ENSG00000140464
O88904	Hipk1	82726	DAXX	death-domain associated protein	ENSG00000204209
O88904	Hipk1	168138	Daxx	Fas death domain-associated protein	ENSMUSG00000002307
O88904	Hipk1	211193	Ctbp2	C-terminal binding protein 2	ENSMUSG00000030970
Q9ERH7	Hipk3	168138	Daxx	Fas death domain-associated protein	ENSMUSG00000002307
Q9ERH7	Hipk3	212910	Fadd	Fas (TNFRSF6)-associated via death domain	ENSMUSG00000031077
Q9ERH7	Hipk3	159577	Fas	Fas (TNF receptor superfamily member 6)	ENSMUSG00000024778
P68433	Hist1h3i	147481	Cbx3	chromobox homolog 3 (Drosophila HP1 gamma)	ENSMUSG000000029836
P68433	Hist1h3i	189469	Cbx5	chromobox homolog 5 (Drosophila HP1a)	ENSMUSG00000009575
P68433	Hist1h3i	209987	Cbx1	chromobox homolog 1 (Drosophila HP1 beta)	ENSMUSG00000018666
P68433	Hist1h3i	135418	Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator	ENSMUSG00000022285
P68433	Hist1h3i	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator	ENSMUSG00000020849
P68433	Hist1h3i	140748	Carm1	coactivator-associated arginine methyltransferase 1	ENSMUSG000000032185
P68433	Hist1h3i	190822	Kat2b	K(lysine) acetyltransferase 2B	ENSMUSG00000000708
P68433	Hist1h3i	38481	SETD7	SET domain containing (lysine methyltransferase) 7	ENSG00000145391
P68433	Hist1h3i	209987	Cbx1	chromobox homolog 1 (Drosophila HP1 beta)	ENSMUSG00000018666
Q64522	Hist2h2ab	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor protein)	ENSG00000145335
Q8BFU2	Hist3h2a	198910	Kdm2b	lysine (K)-specific demethylase 2B	ENSMUSG000000029475
Q8BFU2	Hist3h2a	198115	Rnf2	ring finger protein 2	ENSMUSG00000026484
Q8BFU2	Hist3h2a	159954	Pcaf1	polycomb group ring finger 1	ENSMUSG000000069678
P30681	Hmqb2	96561	POU3F1	POU class 3 homeobox 1	ENSG00000185668
P30681	Hmqb2	68800	PGR	progesterone receptor	ENSG00000082175
P30681	Hmqb2	104534	POU2F1	POU class 2 homeobox 1	ENSG00000143190
P30681	Hmqb2	53773	POU2F2	POU class 2 homeobox 2	ENSG00000028277
P30681	Hmqb2	97997	ESR1	estrogen receptor 1	ENSG00000091831
P30681	Hmqb2	51637	NR3C1	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid)	ENSG00000113580
P30681	Hmqb2	77210	POU5F1	POU class 5 homeobox 1	ENSG00000204531
P30681	Hmqb2	194292	Lef1	lymphoid enhancer binding factor 1	ENSMUSG00000027985
P22361	Hnf1a	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG00000004040
P22361	Hnf1a	211515	Nkx6-2	NK6 homeobox 2	ENSMUSG000000041309
P22361	Hnf1a	163137	Emx1	empty spiracles homolog 1 (Drosophila)	ENSMUSG000000037726
P22361	Hnf1a	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, homolog 1)	ENSMUSG00000020063
P22361	Hnf1a	205753	Hnf1b	HNF1 homeobox B	ENSMUSG000000020679
P22361	Hnf1a	205243	Ctnnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
P22361	Hnf1a	161442	Gtf2a1	general transcription factor II A, 1	ENSMUSG000000020962
P22361	Hnf1a	155077	Pcbd1	pterin 4 alpha carbinolamine dehydratase/dimerization cofactor	ENSMUSG00000020098
P27889	Hnf1b	155077	Pcbd1	pterin 4 alpha carbinolamine dehydratase/dimerization cofactor	ENSMUSG00000020098
P27889	Hnf1b	193173	Hnf1a	HNF1 homeobox A	ENSMUSG000000029556
O35737	Hnrnp1	61485	HNRNPH1	heterogeneous nuclear ribonucleoprotein H1 (H)	ENSG00000169045
O35737	Hnrnp1	89921	PLOD1	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1	ENSG00000083444
O35737	Hnrnp1	2920	PRMT5	protein arginine methyltransferase 5	ENSG00000100462
O35737	Hnrnp1	37588	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	ENSG00000135486
O35737	Hnrnp1	101061	WDR77	WD repeat domain 77	ENSG00000116455
Q08624	Hoxc4	202815	Pou2f1	POU domain, class 2, transcription factor 1	ENSMUSG00000026556

Q08624	Hoxc4	162874	Pbx3	pre B-cell leukemia transcription factor 3	ENSMUSG00000038718
Q08624	Hoxc4	213166	Sall4	sal-like 4 (Drosophila)	ENSMUSG00000027547
Q08624	Hoxc4	192631	Alx4	aristaless-like homeobox 4	ENSMUSG00000040310
Q08624	Hoxc4	203379	Pbx1	pre B-cell leukemia transcription factor 1	ENSMUSG00000052534
P32043	Hoxc5	203379	Pbx1	pre B-cell leukemia transcription factor 1	ENSMUSG00000052534
P32043	Hoxc5	168174	Polr2i	polymerase (RNA) II (DNA directed) polypeptide I	ENSMUSG00000019738
P32043	Hoxc5	162874	Pbx3	pre B-cell leukemia transcription factor 3	ENSMUSG00000038718
P70217	Hoxd13	152330	Meis1	Meis homeobox 1	ENSMUSG00000020160
P70217	Hoxd13	157537	Smad5	MAD homolog 5 (Drosophila)	ENSMUSG00000021540
P70217	Hoxd13	170516	Smad1	MAD homolog 1 (Drosophila)	ENSMUSG00000031681
P70217	Hoxd13	192631	Alx4	aristaless-like homeobox 4	ENSMUSG00000040310
P70217	Hoxd13	191345	Sox15	SRY-box containing gene 15	ENSMUSG00000041287
P70217	Hoxd13	156149	Hand2	heart and neural crest derivatives expressed transcript 2	ENSMUSG00000038193
Q61645	Hr	151644	Rorb	RAR-related orphan receptor beta	ENSMUSG00000036192
Q61645	Hr	148062	Hoxa11	homeobox A11	ENSMUSG00000038210
P50172	Hsd11b1	167029	Cyp2d10	cytochrome P450, family 2, subfamily d, polypeptide 10	ENSMUSG00000014372
P50172	Hsd11b1	138135	Pgrmc1	progesterone receptor membrane component 1	ENSMUSG00000006373
P50172	Hsd11b1	177042	Fmo5	flavin containing monooxygenase 5	ENSMUSG00000028088
P50172	Hsd11b1	207430	Ephx1	epoxide hydrolase 1, microsomal	ENSMUSG00000038776
P50172	Hsd11b1	208760	Cyp3a11	cytochrome P450, family 3, subfamily a, polypeptide 11	ENSMUSG00000056035
P38532	Hsf1	210740	Csf3	colony stimulating factor 3 (granulocyte)	ENSMUSG00000038067
P38532	Hsf1	132298	Rela	v-rel reticuloendotheliosis viral oncogene homolog A (avian)	ENSMUSG00000024927
P38532	Hsf1	208712	Atf3	activating transcription factor 3	ENSMUSG00000026628
P07901	Hsp90aa1	164253	Itgb1bp2	integrin beta 1 binding protein 2	ENSMUSG00000031312
P07901	Hsp90aa1	48331	KCNH2	potassium voltage-gated channel, subfamily H (eag-related)	ENSG000000055118
P07901	Hsp90aa1	128968	Aip	aryl-hydrocarbon receptor-interacting protein	ENSMUSG00000024847
P07901	Hsp90aa1	134957	Ahr	aryl-hydrocarbon receptor	ENSMUSG00000019256
P07901	Hsp90aa1	150031	Sim1	single-minded homolog 1 (Drosophila)	ENSMUSG000000119913
P07901	Hsp90aa1	137672	Mapk1	mitogen-activated protein kinase 1	ENSMUSG00000063358
P07901	Hsp90aa1	209781	Mapk3	mitogen-activated protein kinase 3	ENSMUSG00000063065
P07901	Hsp90aa1	155530	Slc34a1	solute carrier family 34 (sodium phosphate), member 1	ENSMUSG00000021490
P07901	Hsp90aa1	136047	Chordc1	cysteine and histidine-rich domain (CHORD)-containing, zinc finger	ENSMUSG00000001774
P07901	Hsp90aa1	132962	Map3k7	mitogen-activated protein kinase kinase kinase 7	ENSMUSG00000028284
P07901	Hsp90aa1	139272	Cdc37	cell division cycle 37 homolog (S. cerevisiae)	ENSMUSG00000019471
P07901	Hsp90aa1	132816	Tab2	TGF-beta activated kinase 1/MAP3K7 binding protein 2	ENSMUSG00000015755
P07901	Hsp90aa1	163423	Tab1	TGF-beta activated kinase 1/MAP3K7 binding protein 1	ENSMUSG00000022414
P07901	Hsp90aa1	174623	Akt1	thymoma viral proto-oncogene 1	ENSMUSG00000001729
P07901	Hsp90aa1	155873	Gdi1	guanosine diphosphate (GDP) dissociation inhibitor 1	ENSMUSG00000015291
P07901	Hsp90aa1	164008	Rab3a	RAB3A, member RAS oncogene family	ENSMUSG00000031840
P07901	Hsp90aa1	214134	Dnajc5	DnaJ (Hsp40) homolog, subfamily C, member 5	ENSMUSG00000000826
P07901	Hsp90aa1	606688	Hspa1a	heat shock protein 1A	ENSMUSG00000091971
P07901	Hsp90aa1	181123	Irf3	interferon regulatory factor 3	ENSMUSG00000003184
P07901	Hsp90aa1	20861	HSP90AA1	heat shock protein 90kDa alpha (cytosolic), class A member	ENSG00000080824
P07901	Hsp90aa1	201307	Ubc	ubiquitin C	ENSMUSG00000008348
P07901	Hsp90aa1	193222	Traf6	TNF receptor-associated factor 6	ENSMUSG000000027164
P07901	Hsp90aa1	172572	Fkbp1	FK506 binding protein-like	ENSMUSG00000033739
P07901	Hsp90aa1	137697	Slc17a1	solute carrier family 17 (sodium phosphate), member 1	ENSMUSG00000021335
P07901	Hsp90aa1	198038	Tctn1	tectonic family member 1	ENSMUSG00000038593
P07901	Hsp90aa1	136801	Ahi1	Abelson helper integration site 1	ENSMUSG00000019986
P07901	Hsp90aa1	181938	Tuba1b	tubulin, alpha 1B	ENSMUSG00000023004
P07901	Hsp90aa1	211364	Jup	junction plakoglobin	ENSMUSG00000001552
P07901	Hsp90aa1	207470	Actb	actin, beta	ENSMUSG00000029580
P07901	Hsp90aa1	153613	Hspa8	heat shock protein 8	ENSMUSG00000015656
P07901	Hsp90aa1	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
P07901	Hsp90aa1	146462	Invs	inversin	ENSMUSG000000028344
P07901	Hsp90aa1	136511	Hspa9	heat shock protein 9	ENSMUSG00000024359
P07901	Hsp90aa1	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
P07901	Hsp90aa1	207771	Mks1	Meckel syndrome, type 1	ENSMUSG00000034121
P07901	Hsp90aa1	160972	Cc2d2a	coiled-coil and C2 domain containing 2A	ENSMUSG00000039765
P07901	Hsp90aa1	149554	Fhl2	four and a half LIM domains 2	ENSMUSG000000008136
P07901	Hsp90aa1	173563	Cct8	chaperonin containing Tcp1, subunit 8 (theta)	ENSMUSG00000025613
P07901	Hsp90aa1	185482	Hsp90ab1	heat shock protein 90 alpha (cytosolic), class B member 1	ENSMUSG00000023944
P63017	Hspa8	48331	KCNH2	potassium voltage-gated channel, subfamily H (eag-related)	ENSG000000055118
P63017	Hspa8	145597	Pold2	polymerase (DNA directed), delta 2, regulatory subunit	ENSMUSG00000020471
P63017	Hspa8	191542	Cct2	chaperonin containing Tcp1, subunit 2 (beta)	ENSMUSG00000034024
P63017	Hspa8	173563	Cct8	chaperonin containing Tcp1, subunit 8 (theta)	ENSMUSG00000025613
P63017	Hspa8	170572	Selenbp2	selenium binding protein 2	ENSMUSG00000068877
P63017	Hspa8	168985	Aldh1l1	aldehyde dehydrogenase 1 family, member L1	ENSMUSG00000030088
P63017	Hspa8	132917	Cct5	chaperonin containing Tcp1, subunit 5 (epsilon)	ENSMUSG00000022234
P63017	Hspa8	88484	SET	SET nuclear oncogene	ENSG00000119335
P63017	Hspa8	207470	Actb	actin, beta	ENSMUSG00000029580
P63017	Hspa8	160648	Fbp1	fructose biphosphatase 1	ENSMUSG00000069805
P63017	Hspa8	196497	Atp5b	ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit	ENSMUSG00000025393
P63017	Hspa8	147385	Hnrnpa2b1	heterogeneous nuclear ribonucleoprotein A2/B1	ENSMUSG00000004980
P63017	Hspa8	175870	Mta1	metastasis associated 1	ENSMUSG000000021144
P63017	Hspa8	178482	Alb	albumin	ENSMUSG00000029368
P63017	Hspa8	136275	Pygm	muscle glycogen phosphorylase	ENSMUSG00000032648
P63017	Hspa8	137484	Tcp1	t-complex protein 1	ENSMUSG00000068039
P63017	Hspa8	209641	Csnk2a1	casein kinase 2, alpha 1 polypeptide	ENSMUSG00000074698
P63017	Hspa8	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
P63017	Hspa8	140436	Dnm2	dynamitin 2	ENSMUSG00000033335
P63017	Hspa8	165898	Ftcd	formiminotransferase cyclodeaminase	ENSMUSG00000001155
P63017	Hspa8	152187	Eif2s1	eukaryotic translation initiation factor 2, subunit 1 alpha	ENSMUSG00000021116
P63017	Hspa8	145944	Gm5506	predicted gene 5506	ENSMUSG00000059040
P63017	Hspa8	187530	Gm10116	predicted pseudogene 10116	ENSMUSG000000662382
P63017	Hspa8	56882	BAG1	BCL2-associated athanogene	ENSG00000107262
P63017	Hspa8	161623	Stxbp1	syntaxin binding protein 1	ENSMUSG00000026797
P63017	Hspa8	154521	Tnk2	tyrosine kinase, non-receptor, 2	ENSMUSG00000022791
P63017	Hspa8	130893	Klc2	kinesin light chain 2	ENSMUSG00000024862

P63017	Hspa8	186957	Eef1a1	eukaryotic translation elongation factor 1 alpha 1	ENSMUSG000000037742
P63017	Hspa8	168772	Kif5c	kinesin family member 5C	ENSMUSG000000026764
P63017	Hspa8	159551	Dnm1	dynamilin 1	ENSMUSG000000026825
P63017	Hspa8	133375	Tubgcp3	tubulin, gamma complex associated protein 3	ENSMUSG00000000759
P63017	Hspa8	173074	Actr1a	ARP1 actin-related protein 1 homolog A, centractin alpha	ENSMUSG000000025228
P63017	Hspa8	211869	Tubq1	tubulin, gamma 1	ENSMUSG000000035198
P63017	Hspa8	137748	Kcnma1	potassium large conductance calcium-activated channel, s	ENSMUSG000000063142
P63017	Hspa8	191571	Khdrbs1	KH domain containing, RNA binding, signal transduction a	ENSMUSG000000028790
P63017	Hspa8	132410	Pik3c3	phosphoinositide-3-kinase, class 3	ENSMUSG000000033628
P63017	Hspa8	156172	Atp1a3	ATPase, Na+/K+ transporting, alpha 3 polypeptide	ENSMUSG000000040907
P63017	Hspa8	205352	Atp1a2	ATPase, Na+/K+ transporting, alpha 2 polypeptide	ENSMUSG00000007097
P63017	Hspa8	186932	A830010M20Ri	RIKEN cDNA A830010M20 gene	ENSMUSG000000044060
P63017	Hspa8	144990	Actr1b	ARP1 actin-related protein 1 homolog B, centractin beta (ENSMUSG000000037351
P63017	Hspa8	195461	Pik3r4	phosphatidylinositol 3 kinase, regulatory subunit, polypep	ENSMUSG000000032571
P63017	Hspa8	179812	Actr1a1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	ENSMUSG000000033161
P63017	Hspa8	211626	Tubgcp2	tubulin, gamma complex associated protein 2	ENSMUSG000000025474
P63017	Hspa8	201853	Tubgcp4	tubulin, gamma complex associated protein 4	ENSMUSG000000027263
P63017	Hspa8	186141	Ampd2	adenosine monophosphate deaminase 2	ENSMUSG000000027889
P63017	Hspa8	200373	Myo1c	myosin 1C	ENSMUSG000000017774
P63017	Hspa8	153380	Actn1	actinin, alpha 1	ENSMUSG000000015143
P63017	Hspa8	165033	Actn4	actinin alpha 4	ENSMUSG000000054808
P63017	Hspa8	185482	Hsp90ab1	heat shock protein 90 alpha (cytosolic), class B member 1	ENSMUSG000000023944
P63017	Hspa8	214779	Actq1	actin, gamma, cytoplasmic 1	ENSMUSG000000062825
P63017	Hspa8	184312	Sult2b1	sulfotransferase family, cytosolic, 2B, member 1	ENSMUSG00000003271
P63017	Hspa8	1609	SOD1	superoxide dismutase 1, soluble	ENSG00000142168
P63017	Hspa8	150618	Hspa2	heat shock protein 2	ENSMUSG000000059970
P63017	Hspa8	174662	Sod1	superoxide dismutase 1, soluble	ENSMUSG000000022982
P63017	Hspa8	129974	Ccs	copper chaperone for superoxide dismutase	ENSMUSG000000034108
P63017	Hspa8	606687	Hspa1b	heat shock protein 1B	ENSMUSG000000090877
P63017	Hspa8	209442	Hsph1	heat shock 105kDa/110kDa protein 1	ENSMUSG000000029657
P63017	Hspa8	171290	Hspa4	heat shock protein 4	ENSMUSG000000020361
P63017	Hspa8	136348	Dnaja1	DnaJ (Hsp40) homolog, subfamily A, member 1	ENSMUSG000000028410
P63017	Hspa8	156729	Tlr4	toll-like receptor 4	ENSMUSG000000039005
P63017	Hspa8	153401	Stub1	STIP1 homology and U-Box containing protein 1	ENSMUSG000000039615
P63017	Hspa8	204565	Myd88	myeloid differentiation primary response gene 88	ENSMUSG000000023508
P63017	Hspa8	154747	Irak1	interleukin-1 receptor-associated kinase 1	ENSMUSG000000031392
P63017	Hspa8	191912	Ticam1	toll-like receptor adaptor molecule 1	ENSMUSG000000047123
P63017	Hspa8	192882	Tbk1	TANK-binding kinase 1	ENSMUSG000000020115
P63017	Hspa8	193222	Traf6	TNF receptor-associated factor 6	ENSMUSG000000027164
P63017	Hspa8	207513	Prkcz	protein kinase C, zeta	ENSMUSG000000029053
P63017	Hspa8	211273	Src	Rous sarcoma oncogene	ENSMUSG000000027646
P63017	Hspa8	195818	Tlr9	toll-like receptor 9	ENSMUSG000000045322
P63017	Hspa8	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG000000027273
P63017	Hspa8	214134	Dnajc5	DnaJ (Hsp40) homolog, subfamily C, member 5	ENSMUSG00000000826
P63017	Hspa8	176755	Sqta	small glutamine-rich tetratricopeptide repeat (TPR)-contai	ENSMUSG00000004937
P63017	Hspa8	201307	Ubc	ubiquitin C	ENSMUSG00000008348
P63017	Hspa8	198115	Rnf2	ring finger protein 2	ENSMUSG000000026484
P63017	Hspa8	179250	Erq	avian erythroblastosis virus E-26 (v-ets) oncogene related	ENSMUSG000000040732
P63017	Hspa8	198910	Kdm2b	lysine (K)-specific demethylase 2B	ENSMUSG000000029475
P63017	Hspa8	213115	Maip	microtubule-associated protein tau	ENSMUSG000000018411
P63017	Hspa8	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG000000020849
P63017	Hspa8	204151	Hspb1	heat shock protein 1	ENSMUSG00000004951
P63017	Hspa8	198038	Tctn1	tectonic family member 1	ENSMUSG000000038593
P63017	Hspa8	136801	Ahi1	Abelson helper integration site 1	ENSMUSG000000019986
P63017	Hspa8	181938	Tuba1b	tubulin, alpha 1B	ENSMUSG000000023004
P63017	Hspa8	211364	Jup	junction plakoglobin	ENSMUSG00000001552
P63017	Hspa8	172055	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member	ENSMUSG000000021270
P63017	Hspa8	146462	Invs	inversin	ENSMUSG000000028344
P63017	Hspa8	136511	Hspa9	heat shock protein 9	ENSMUSG000000024359
P63017	Hspa8	179144	Tubb5	tubulin, beta 5	ENSMUSG000000001525
P63017	Hspa8	207771	Mks1	Meckel syndrome, type 1	ENSMUSG000000034121
P63017	Hspa8	160972	Cc2d2a	coiled-coil and C2 domain containing 2A	ENSMUSG000000039765
P63017	Hspa8	149554	Fhl2	four and a half LIM domains 2	ENSMUSG000000008136
P63017	Hspa8	202264	Nek8	NIMA (never in mitosis gene a)-related expressed kinase	ENSMUSG000000017405
P63017	Hspa8	158489	Iqcb1	IQ calmodulin-binding motif containing 1	ENSMUSG000000022837
P63017	Hspa8	194604	Nphp3	nephronophthisis 3 (adolescent)	ENSMUSG000000032558
P63017	Hspa8	139839	2210010C04Ri	RIKEN cDNA 2210010C04 gene	ENSMUSG000000029882
P63017	Hspa8	164680	Ogt	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-	ENSMUSG000000034160
P63017	Hspa8	140225	Try5	trypsin 5	ENSMUSG000000036938
P63017	Hspa8	606538	Gm2663	predicted gene 2663	ENSMUSG000000090480
P63017	Hspa8	140358	Try10	trypsin 10	ENSMUSG000000071521
P63038	Hspd1	15945	OGG1	8-oxoguanine DNA glycosylase	ENSG00000114026
P63038	Hspd1	173221	Mcl1	myeloid cell leukemia sequence 1	ENSMUSG000000038612
P63038	Hspd1	178542	Prdx1	peroxiredoxin 1	ENSMUSG000000028691
P63038	Hspd1	138913	Crkl	v-crk sarcoma virus CT10 oncogene homolog (avian)-like	ENSMUSG000000006134
P63038	Hspd1	200552	Nckipso	NCK interacting protein with SH3 domain	ENSMUSG000000032598
Q811T9	IDBG-248652	51663	GSK3B	glycogen synthase kinase 3 beta	ENSG000000082701
Q811T9	IDBG-248652	7404	AXIN1	axin 1	ENSG00000103126
Q811T9	IDBG-248652	27347	CTNNB1	catenin (cadherin-associated protein), beta 1, 88kDa	ENSG00000168036
Q811T9	IDBG-248652	159859	Gsk3b	glycogen synthase kinase 3 beta	ENSMUSG00000002812
P42227	IDBG-null	154747	Irak1	interleukin-1 receptor-associated kinase 1	ENSMUSG000000031392
P42227	IDBG-null	209781	Mapk3	mitogen-activated protein kinase 3	ENSMUSG000000063065
P42227	IDBG-null	177264	Dapk3	death-associated protein kinase 3	ENSMUSG000000034974
P42227	IDBG-null	211273	Src	Rous sarcoma oncogene	ENSMUSG000000027646
P42227	IDBG-null	26804	ICAM1	intercellular adhesion molecule 1	ENSG00000090339
P42227	IDBG-null	214063	Stmn3	stathmin-like 3	ENSMUSG000000027581
P42227	IDBG-null	193173	Hnf1a	HNF1 homeobox A	ENSMUSG000000029556
P42227	IDBG-null	158538	Fos	FBJ osteosarcoma oncogene	ENSMUSG000000021250
P42227	IDBG-null	164161	Jun	Jun oncogene	ENSMUSG000000052684

P42227	IDBG-null	213090	Cebpb	CCAAT/enhancer binding protein (C/EBP), beta	ENSMUSG00000056501
P42227	IDBG-null	64463	HCK	hemopoietic cell kinase	ENSG00000101336
P42227	IDBG-null	74081	SRC	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog	ENSG00000197122
P42227	IDBG-null	95463	FYN	FYN oncogene related to SRC, FGR, YES	ENSG00000010810
P42227	IDBG-null	94937	FGR	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog	ENSG00000000938
P42227	IDBG-null	201164	Prkce	protein kinase C, epsilon	ENSMUSG00000045038
P42227	IDBG-null	131732	Elp2	elongation protein 2 homolog (S. cerevisiae)	ENSMUSG00000024271
P42227	IDBG-null	214604	Socs3	suppressor of cytokine signaling 3	ENSMUSG00000053113
P42227	IDBG-null	187635	Ptpn6	protein tyrosine phosphatase, non-receptor type 6	ENSMUSG00000004266
P42227	IDBG-null	171427	Btk	Bruton agammaglobulinemia tyrosine kinase	ENSMUSG00000031264
P42227	IDBG-null	153162	Stat1	signal transducer and activator of transcription 1	ENSMUSG00000026104
P42227	IDBG-null	31569	GADD45GIP1	growth arrest and DNA-damage-inducible, gamma interacting protein 1	ENSG00000179271
P42227	IDBG-null	37954	JUND	jun D proto-oncogene	ENSG00000130522
P42227	IDBG-null	95078	RPA2	replication protein A2, 32kDa	ENSG00000117748
P42227	IDBG-null	127871	Ghr	growth hormone receptor	ENSMUSG000000055737
P42227	IDBG-null	159458	IL10ra	interleukin 10 receptor, alpha	ENSMUSG00000032089
P42227	IDBG-null	62183	MAPK9	mitogen-activated protein kinase 9	ENSG00000050748
P42227	IDBG-null	156977	Jak2	Janus kinase 2	ENSMUSG00000024789
P42227	IDBG-null	30976	JUNB	jun B proto-oncogene	ENSG00000171223
P42227	IDBG-null	94374	MAP3K7	mitogen-activated protein kinase kinase kinase 7	ENSG00000135341
P42227	IDBG-null	21516	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)	ENSG00000134352
P42227	IDBG-null	165357	Hax1	HCLS1 associated X-1	ENSMUSG00000027944
P42227	IDBG-null	187040	Krt1	keratin 1	ENSMUSG00000046834
P42227	IDBG-null	188573	Mlf2	myeloid leukemia factor 2	ENSMUSG00000030120
P42227	IDBG-null	179321	Huwe1	HECT, UBA and WWE domain containing 1	ENSMUSG00000025261
P42227	IDBG-null	195709	Bank1	B-cell scaffold protein with ankyrin repeats 1	ENSMUSG00000037922
P42227	IDBG-null	207728	6330503K22Rik	RIKEN cDNA 6330503K22 gene	ENSMUSG00000033904
P42227	IDBG-null	164070	Cryab	crystallin, alpha B	ENSMUSG00000032060
P42227	IDBG-null	156635	Gsk3a	glycogen synthase kinase 3 alpha	ENSMUSG00000057177
P42227	IDBG-null	159859	Gsk3b	glycogen synthase kinase 3 beta	ENSMUSG00000022812
P42227	IDBG-null	135936	Ifnqr1	interferon gamma receptor 1	ENSMUSG00000020009
P42227	IDBG-null	99558	IL23R	interleukin 23 receptor	ENSG00000162594
P42227	IDBG-null	167001	Gzmb	granzyme B	ENSMUSG00000015437
P42227	IDBG-null	132856	Arid1b	AT rich interactive domain 1B (SWI-like)	ENSMUSG00000069729
P42227	IDBG-null	204151	Hspb1	heat shock protein 1	ENSMUSG00000004951
P42227	IDBG-null	132413	Sipa1	signal-induced proliferation associated gene 1	ENSMUSG00000056917
P42227	IDBG-null	149806	Mrps34	mitochondrial ribosomal protein S34	ENSMUSG00000038880
P42227	IDBG-null	172251	Irf1	interferon regulatory factor 1	ENSMUSG00000018899
P42227	IDBG-null	158392	Chd8	chromodomain helicase DNA binding protein 8	ENSMUSG00000053754
P42227	IDBG-null	131711	Tspan7	tetraspanin 7	ENSMUSG00000058254
P42227	IDBG-null	174121	Uqcrl1	ubiquinol-cytochrome c reductase, complex III subunit XI	ENSMUSG00000020163
P42227	IDBG-null	128466	Sdc1	syndecan 1	ENSMUSG00000020592
P42227	IDBG-null	152923	Nfil3	nuclear factor, interleukin 3, regulated	ENSMUSG00000056749
P42227	IDBG-null	176557	Gadd45b	growth arrest and DNA-damage-inducible 45 beta	ENSMUSG00000015312
P42227	IDBG-null	209275	Il4ra	interleukin 4 receptor, alpha	ENSMUSG00000030748
P42227	IDBG-null	202346	Selp	selectin, platelet	ENSMUSG00000026580
P42227	IDBG-null	167138	Flt4	FMS-like tyrosine kinase 4	ENSMUSG00000020357
P42227	IDBG-null	127850	Pomc	pro-opiomelanocortin-alpha	ENSMUSG00000020660
P42227	IDBG-null	197036	Stat2	signal transducer and activator of transcription 2	ENSMUSG00000040033
P42227	IDBG-null	172393	Scp2	sterol carrier protein 2, liver	ENSMUSG00000028603
P42227	IDBG-null	175664	Junb	Jun-B oncogene	ENSMUSG00000052837
P42227	IDBG-null	86738	STMN3	stathmin-like 3	ENSG00000197457
P42227	IDBG-null	52534	KPNA1	karyopherin alpha 1 (importin alpha 5)	ENSG00000114030
P42227	IDBG-null	157578	Rbfox2	RNA binding protein, fox-1 homolog (C. elegans) 2	ENSMUSG00000033565
P42227	IDBG-null	22529	INSR	insulin receptor	ENSG00000171105
P42227	IDBG-null	166211	Gnb2l1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	ENSMUSG00000020372
P42227	IDBG-null	73479	MAPK8	mitogen-activated protein kinase 8	ENSG00000107643
P42227	IDBG-null	173696	Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma	ENSMUSG00000056216
P42227	IDBG-null	188607	Sp1	trans-acting transcription factor 1	ENSMUSG00000001280
P42227	IDBG-null	127933	Ncoa1	nuclear receptor coactivator 1	ENSMUSG00000020647
P42227	IDBG-null	181579	Hdac4	histone deacetylase 4	ENSMUSG00000026313
P42227	IDBG-null	162156	Boc	biregional cell adhesion molecule-related/down-regulated	ENSMUSG00000022687
P42227	IDBG-null	208918	Pax1	paired box gene 1	ENSMUSG00000037034
P42227	IDBG-null	158171	Spnb2	spectrin beta 2	ENSMUSG00000020315
P42227	IDBG-null	128153	Ighmbp2	immunoglobulin mu binding protein 2	ENSMUSG00000024831
P42227	IDBG-null	154862	Cadm4	cell adhesion molecule 4	ENSMUSG00000054793
P42227	IDBG-null	174766	Itga11	integrin alpha 11	ENSMUSG00000032243
P42227	IDBG-null	146570	Srfbp1	serum response factor binding protein 1	ENSMUSG00000024528
P42227	IDBG-null	173713	Cebpa	CCAAT/enhancer binding protein (C/EBP), alpha	ENSMUSG00000034957
P42227	IDBG-null	197156	IL28ra	interleukin 28 receptor alpha	ENSMUSG00000062157
P42227	IDBG-null	144967	Smad9	MAD homolog 9 (Drosophila)	ENSMUSG00000027796
P42227	IDBG-null	196115	Pdik1l	PDLIM1 interacting kinase 1 like	ENSMUSG00000050890
P42227	IDBG-null	143920	Paxip1	PAX interacting (with transcription-activation domain) protein 1	ENSMUSG00000002221
P42227	IDBG-null	166939	N4bp2	NEDD4 binding protein 2	ENSMUSG00000037795
P42227	IDBG-null	145636	Sema3g	sema domain, immunoglobulin domain (Ig), short basic domain	ENSMUSG00000021904
P42227	IDBG-null	130102	Asap2	ArfGAP with SH3 domain, ankyrin repeat and PH domain	ENSMUSG00000052632
P42227	IDBG-null	134125	Ect2	ect2 oncogene	ENSMUSG00000027699
P42227	IDBG-null	162567	Angptl2	angiopoietin-like 2	ENSMUSG00000004105
P42227	IDBG-null	158314	Ctnna2	catenin (cadherin associated protein), alpha 2	ENSMUSG00000063063
P42227	IDBG-null	130301	Porcn	porcupine homolog (Drosophila)	ENSMUSG00000031169
P42227	IDBG-null	142063	Vmn2r42	vomer nasal 2, receptor 42	ENSMUSG00000070844
P42227	IDBG-null	205027	Giyyf1	GRB10 interacting GYF protein 1	ENSMUSG00000029714
P42227	IDBG-null	174956	Cln6	ceroid-lipofuscinosis, neuronal 6	ENSMUSG00000032245
P42227	IDBG-null	144400	Baq4	BCL2-associated athanogene 4	ENSMUSG00000037316
P42227	IDBG-null	137812	Angpt1	angiopoietin 1	ENSMUSG00000022309
P42227	IDBG-null	186798	Dzip1	DAZ interacting protein 1	ENSMUSG00000042156
P42227	IDBG-null	171820	Notch4	Notch gene homolog 4 (Drosophila)	ENSMUSG00000015468
P42227	IDBG-null	194803	Nav1	neuron navigator 1	ENSMUSG00000009418
P42227	IDBG-null	154830	Cbwd1	COBW domain containing 1	ENSMUSG00000024878

P42227	IDBG-null	129513	Crebbp	CREB binding protein	ENSMUSG00000022521
P42227	IDBG-null	190212	Gabra5	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 5	ENSMUSG00000055078
P42227	IDBG-null	189844	Tnfrsf1a	tumor necrosis factor receptor superfamily, member 1a	ENSMUSG00000030341
P42227	IDBG-null	164991	Pcnt	pericentrin (kendrin)	ENSMUSG00000001151
P42227	IDBG-null	152576	Bcl3	B-cell leukemia/lymphoma 3	ENSMUSG000000053175
P42227	IDBG-null	197289	Gbp1	guanylate binding protein 1	ENSMUSG00000028269
P42227	IDBG-null	137821	Fgl2	fibrinogen-like protein 2	ENSMUSG00000039899
P42227	IDBG-null	148540	Cdon	cell adhesion molecule-related/down-regulated by oncogene 1	ENSMUSG000000038119
P42227	IDBG-null	133057	Ltbp3	latent transforming growth factor beta binding protein 3	ENSMUSG00000024940
P42227	IDBG-null	163684	Tek	endothelial-specific receptor tyrosine kinase	ENSMUSG00000006386
P42227	IDBG-null	26087	PIN1	peptidylprolyl cis/trans isomerase, NIMA-interacting 1	ENSG00000127445
P42227	IDBG-null	8992	EP300	E1A binding protein p300	ENSG00000100393
P42227	IDBG-null	166648	Jak3	Janus kinase 3	ENSMUSG00000031805
P42227	IDBG-null	176105	Pias3	protein inhibitor of activated STAT 3	ENSMUSG00000028101
P42227	IDBG-null	203203	Nos2	nitric oxide synthase 2, inducible	ENSMUSG00000020826
P42227	IDBG-null	151280	Slc40a1	solute carrier family 40 (iron-regulated transporter), member 1	ENSMUSG00000025993
P42227	IDBG-null	144556	Myc	myelocytomatosis oncogene	ENSMUSG00000022346
P42227	IDBG-null	50702	STAT3	signal transducer and activator of transcription 3 (acute-phase reactant)	ENSG00000168610
P42227	IDBG-null	97020	IFNGR1	interferon gamma receptor 1	ENSG00000027697
P42227	IDBG-null	169968	Rorc	RAR-related orphan receptor gamma	ENSMUSG00000028150
P42227	IDBG-null	136575	Il17a	interleukin 17A	ENSMUSG00000025929
P42227	IDBG-null	171764	Ldb1	LIM domain binding 1	ENSMUSG00000025223
P42227	IDBG-null	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
P42227	IDBG-null	166776	Gata2	GATA binding protein 2	ENSMUSG00000015053
P42227	IDBG-null	136612	Il17f	interleukin 17F	ENSMUSG000000041872
P42227	IDBG-null	408826	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog	ENSG00000254087
P42227	IDBG-null	133094	Steap4	STEAP family member 4	ENSMUSG00000012428
P42227	IDBG-null	197102	Rgs2	regulator of G-protein signaling 2	ENSMUSG00000026360
P42227	IDBG-null	164861	Pcbp1	poly(rC) binding protein 1	ENSMUSG00000051695
P42227	IDBG-null	184853	Pou6f1	POU domain, class 6, transcription factor 1	ENSMUSG00000009739
P42227	IDBG-null	144418	Zfp467	zinc finger protein 467	ENSMUSG00000068551
P42227	IDBG-null	184340	Isl1	ISL1 transcription factor, LIM/homeodomain	ENSMUSG00000042258
P42227	IDBG-null	194638	Fer	fer (fms/fps related) protein kinase	ENSMUSG00000000127
P42227	IDBG-null	167366	Jak1	Janus kinase 1	ENSMUSG00000028530
P42227	IDBG-null	142854	Prkcd	protein kinase C, delta	ENSMUSG000000021948
P42227	IDBG-null	160997	Ndufa13	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, subunit 13	ENSMUSG00000036199
P42227	IDBG-null	148620	Hif1a	hypoxia inducible factor 1, alpha subunit	ENSMUSG00000021109
P31750	IDBG-null	156458	Ikbkg	inhibitor of kappaB kinase gamma	ENSMUSG00000004221
P31750	IDBG-null	169132	Chuk	conserved helix-loop-helix ubiquitous kinase	ENSMUSG00000025199
P31750	IDBG-null	85142	XIAP	X-linked inhibitor of apoptosis	ENSG00000101966
P31750	IDBG-null	63691	AKT1S1	AKT1 substrate 1 (proline-rich)	ENSG00000204673
P31750	IDBG-null	196288	Pde3a	phosphodiesterase 3A, cGMP inhibited	ENSMUSG00000041741
P31750	IDBG-null	160992	Lmna	lamin A	ENSMUSG00000028063
P31750	IDBG-null	172131	Wdfy2	WD repeat and FYVE domain containing 2	ENSMUSG00000014547
P31750	IDBG-null	143370	Foxo1	forkhead box O1	ENSMUSG000000044167
P31750	IDBG-null	262062	Gm3272	predicted pseudogene 3272	ENSMUSG00000078967
P31750	IDBG-null	209676	Trib3	tribbles homolog 3 (Drosophila)	ENSMUSG00000032715
P31750	IDBG-null	130873	Ppl	periplakin	ENSMUSG00000039457
P31750	IDBG-null	207079	Btbtd10	BTB (POZ) domain containing 10	ENSMUSG00000038187
P31750	IDBG-null	18937	TCL1A	T-cell leukemia/lymphoma 1A	ENSG00000100721
P31750	IDBG-null	4327	PHLPP1	PH domain and leucine rich repeat protein phosphatase 1	ENSG00000081913
P31750	IDBG-null	157020	Ccdc88a	coiled coil domain containing 88A	ENSMUSG00000032740
P31750	IDBG-null	189541	Pawr	PRKC, apoptosis, WT1, regulator	ENSMUSG00000035873
P31750	IDBG-null	175693	Smad3	MAD homolog 3 (Drosophila)	ENSMUSG00000032402
P31750	IDBG-null	46196	CLIP3	CAP-GLY domain containing linker protein 3	ENSG00000105270
P31750	IDBG-null	207513	Prkcz	protein kinase C, zeta	ENSMUSG00000029053
P31750	IDBG-null	80957	PTPN1	protein tyrosine phosphatase, non-receptor type 1	ENSG00000196396
P31750	IDBG-null	172055	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member 1	ENSMUSG00000021270
P31750	IDBG-null	163320	2810422J05Rik	RIKEN cDNA 2810422J05 gene	ENSMUSG00000055553
P31750	IDBG-null	162945	Mapkap1	mitogen-activated protein kinase associated protein 1	ENSMUSG00000038696
P31750	IDBG-null	128168	Rictor	RPTOR independent companion of MTOR, complex 2	ENSMUSG00000050310
P31750	IDBG-null	204403	Mtor	mechanistic target of rapamycin (serine/threonine kinase)	ENSMUSG00000028991
P31750	IDBG-null	77184	STK4	serine/threonine kinase 4	ENSG00000101109
P31750	IDBG-null	153162	Stat1	signal transducer and activator of transcription 1	ENSMUSG00000026104
P31750	IDBG-null	141021	Ikbkb	inhibitor of kappaB kinase beta	ENSMUSG000000031537
P31750	IDBG-null	25713	MYD88	myeloid differentiation primary response gene (88)	ENSG00000127936
P31750	IDBG-null	168541	Clip3	CAP-GLY domain containing linker protein 3	ENSMUSG00000013921
P31750	IDBG-null	20317	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1)	ENSG00000111276
P31750	IDBG-null	136255	Map3k5	mitogen-activated protein kinase kinase kinase 5	ENSMUSG00000071369
P31750	IDBG-null	192882	Tbk1	TANK-binding kinase 1	ENSMUSG00000020115
P31750	IDBG-null	153401	Stub1	STIP1 homology and U-Box containing protein 1	ENSMUSG00000039615
P31750	IDBG-null	19263	ARRB2	arrestin, beta 2	ENSG00000141480
P31750	IDBG-null	143462	Ppp2r2b	protein phosphatase 2 (formerly 2A), regulatory subunit B	ENSMUSG00000024500
P31750	IDBG-null	159859	Gsk3b	glycogen synthase kinase 3 beta	ENSMUSG00000022812
P31750	IDBG-null	64687	ARRB1	arrestin, beta 1	ENSG00000137486
P31750	IDBG-null	178662	Ttc3	tetratricopeptide repeat domain 3	ENSMUSG00000040785
P31750	IDBG-null	64029	UBC	ubiquitin C	ENSG00000150991
P31750	IDBG-null	15903	CALM1	calmodulin 1 (phosphorylase kinase, delta)	ENSG00000198688
P31750	IDBG-null	185482	Hsp90ab1	heat shock protein 90 alpha (cytosolic), class B member 1	ENSMUSG00000023944
P31750	IDBG-null	191852	Mdm2	transformed mouse 3T3 cell double minute 2	ENSMUSG00000020184
P31750	IDBG-null	79989	PREX1	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1	ENSG00000124126
P31750	IDBG-null	17688	RICTOR	RPTOR independent companion of MTOR, complex 2	ENSG00000164327
P31750	IDBG-null	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, homolog 1)	ENSMUSG00000020063
P70347	IDBG-null	44993	TBK1	TANK-binding kinase 1	ENSG00000183735
P70347	IDBG-null	146254	Traf2	TNF receptor-associated factor 2	ENSMUSG00000026942
P70347	IDBG-null	192882	Tbk1	TANK-binding kinase 1	ENSMUSG00000020115
P70347	IDBG-null	207066	Mavs	mitochondrial antiviral signaling protein	ENSMUSG00000037523
P70347	IDBG-null	172558	Traf3	TNF receptor-associated factor 3	ENSMUSG00000021277
P70347	IDBG-null	191912	Ticam1	toll-like receptor adaptor molecule 1	ENSMUSG00000047123

P70347	IDBG-null	210156	Tbkbp1	TBK1 binding protein 1	ENSMUSG000000038517
P70347	IDBG-null	133079	Ddx3x	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-link	ENSMUSG00000000787
P70347	IDBG-null	163730	Traf1	TNF receptor-associated factor 1	ENSMUSG000000026875
P70347	IDBG-null	144865	Map4k5	mitogen-activated protein kinase kinase kinase 5	ENSMUSG000000034761
P70347	IDBG-null	21240	TRAF3	TNF receptor-associated factor 3	ENSG00000131323
P70347	IDBG-null	106228	IKBKE	inhibitor of kappa light polypeptide gene enhancer in B-cel	ENSG00000143466
P70347	IDBG-null	181123	Irf3	interferon regulatory factor 3	ENSMUSG00000003184
P70347	IDBG-null	143710	Ripk1	receptor (TNFRSF)-interacting serine-threonine kinase 1	ENSMUSG000000021408
P70347	IDBG-null	135957	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	ENSMUSG000000040296
P70347	IDBG-null	156458	Ikbkg	inhibitor of kappaB kinase gamma	ENSMUSG00000004221
P70347	IDBG-null	157464	Casp8	caspase 8	ENSMUSG000000026029
P70347	IDBG-null	169132	Chuk	conserved helix-loop-helix ubiquitous kinase	ENSMUSG000000025199
P70347	IDBG-null	141021	Ikbkb	inhibitor of kappaB kinase beta	ENSMUSG000000031537
P70347	IDBG-null	190983	Ikbke	inhibitor of kappaB kinase epsilon	ENSMUSG000000042349
P70347	IDBG-null	92817	TRAF2	TNF receptor-associated factor 2	ENSG00000127191
P39053	IDBG-null	212321	Ap2a2	adaptor protein complex AP-2, alpha 2 subunit	ENSMUSG00000002957
P39053	IDBG-null	176668	Its1	intersectin 1 (SH3 domain protein 1A)	ENSMUSG000000022957
P39053	IDBG-null	135538	Syn1	synapsin 1	ENSMUSG000000037217
P39053	IDBG-null	162983	Mtap2	microtubule-associated protein 2	ENSMUSG000000015222
P39053	IDBG-null	150657	Camk2a	calcium/calmodulin-dependent protein kinase II alpha	ENSMUSG000000042617
P39053	IDBG-null	146219	Pfn2	profilin 2	ENSMUSG000000027805
P39053	IDBG-null	194572	Kif5a	kinesin family member 5A	ENSMUSG000000074657
P39053	IDBG-null	137748	Kcnma1	potassium large conductance calcium-activated channel, s	ENSMUSG000000063142
P39053	IDBG-null	203389	Stx1a	syntaxin 1A (brain)	ENSMUSG000000007207
P39053	IDBG-null	161623	Stxbp1	syntaxin binding protein 1	ENSMUSG000000026797
P39053	IDBG-null	189759	Vamp2	vesicle-associated membrane protein 2	ENSMUSG000000020894
P39053	IDBG-null	129240	Syp	synaptophysin	ENSMUSG000000031144
P39053	IDBG-null	170932	Atp4a	ATPase, H ⁺ /K ⁺ exchanging, gastric, alpha polypeptide	ENSMUSG00000005553
P39053	IDBG-null	179812	Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	ENSMUSG000000033161
P39053	IDBG-null	156172	Atp1a3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide	ENSMUSG000000040907
P39053	IDBG-null	205352	Atp1a2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	ENSMUSG00000007097
P39053	IDBG-null	147527	Slc30a3	solute carrier family 30 (zinc transporter), member 3	ENSMUSG000000029151
P39053	IDBG-null	187917	Atp6v0d1	ATPase, H ⁺ transporting, lysosomal V0 subunit D1	ENSMUSG000000013160
P39053	IDBG-null	181138	Gnao1	guanine nucleotide binding protein, alpha O	ENSMUSG000000031748
P39053	IDBG-null	207606	Gnb1	guanine nucleotide binding protein (G protein), beta 1	ENSMUSG000000029064
P39053	IDBG-null	188200	Gnb3	guanine nucleotide binding protein (G protein), beta 3	ENSMUSG000000023439
P39053	IDBG-null	209032	Napb	N-ethylmaleimide sensitive fusion protein attachment pro	ENSMUSG000000027438
P39053	IDBG-null	210393	Stx1b	syntaxin 1B	ENSMUSG000000030806
P39053	IDBG-null	155754	Gpm6a	glycoprotein m6a	ENSMUSG000000031517
P39053	IDBG-null	138466	Stx7	syntaxin 7	ENSMUSG000000019998
P39053	IDBG-null	154521	Tnk2	tyrosine kinase, non-receptor, 2	ENSMUSG000000022791
P39053	IDBG-null	130893	Klc2	kinesin light chain 2	ENSMUSG000000024862
P39053	IDBG-null	186957	Eef1a1	eukaryotic translation elongation factor 1 alpha 1	ENSMUSG000000037742
P39053	IDBG-null	168772	Kif5c	kinesin family member 5C	ENSMUSG000000026764
P39053	IDBG-null	133375	Tubgcp3	tubulin, gamma complex associated protein 3	ENSMUSG00000000759
P39053	IDBG-null	173074	Actr1a	ARP1 actin-related protein 1 homolog A, cetractin alpha	ENSMUSG000000025228
P39053	IDBG-null	153613	Hspa8	heat shock protein 8	ENSMUSG000000015656
P39053	IDBG-null	211869	Tubq1	tubulin, gamma 1	ENSMUSG000000035198
P39053	IDBG-null	191571	Khdrbs1	KH domain containing, RNA binding, signal transduction a	ENSMUSG000000028790
P39053	IDBG-null	132410	Pik3c3	phosphoinositide-3-kinase, class 3	ENSMUSG000000033628
P39053	IDBG-null	186932	A830010M20R1	RIKEN cDNA A830010M20 gene	ENSMUSG000000044060
P39053	IDBG-null	144990	Actr1b	ARP1 actin-related protein 1 homolog B, cetractin beta (ENSMUSG000000037351
P39053	IDBG-null	195461	Pik3r4	phosphatidylinositol 3 kinase, regulatory subunit, polypep	ENSMUSG000000032571
P39053	IDBG-null	211626	Tubgcp2	tubulin, gamma complex associated protein 2	ENSMUSG000000025474
P39053	IDBG-null	201853	Tubgcp4	tubulin, gamma complex associated protein 4	ENSMUSG000000027263
P39053	IDBG-null	186141	Ampd2	adenosine monophosphate deaminase 2	ENSMUSG000000027889
P39053	IDBG-null	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG000000027273
P39053	IDBG-null	207019	Cltc	clathrin, heavy polypeptide (Hc)	ENSMUSG000000047126
P39053	IDBG-null	181984	Tuba1a	tubulin, alpha 1A	ENSMUSG000000072235
P39053	IDBG-null	181060	Kif2a	kinesin family member 2A	ENSMUSG0000000021693
P39053	IDBG-null	197628	Sh3glb1	SH3-domain GRB2-like B1 (endophilin)	ENSMUSG000000037062
P39053	IDBG-null	160703	Sh3gl2	SH3-domain GRB2-like 2	ENSMUSG000000028488
P39053	IDBG-null	196717	Sh3gl3	SH3-domain GRB2-like 3	ENSMUSG000000030638
P39053	IDBG-null	174739	Sv2a	synaptic vesicle glycoprotein 2 a	ENSMUSG000000038486
P39053	IDBG-null	205183	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	ENSMUSG000000035152
P39053	IDBG-null	180315	Ap2a1	adaptor protein complex AP-2, alpha 1 subunit	ENSMUSG000000060279
P39053	IDBG-null	143791	Ap1b1	adaptor protein complex AP-1, beta 1 subunit	ENSMUSG000000009090
P39053	IDBG-null	189699	Snap91	synaptosomal-associated protein 91	ENSMUSG000000033419
P39053	IDBG-null	213066	Nsf	N-ethylmaleimide sensitive fusion protein	ENSMUSG000000034187
P39053	IDBG-null	27257	LRRK2	leucine-rich repeat kinase 2	ENSG00000188906
P39053	IDBG-null	159493	Acta2	actin, alpha 2, smooth muscle, aorta	ENSMUSG000000035783
P39053	IDBG-null	132306	Cadps	Ca ²⁺ -dependent secretion activator	ENSMUSG000000054423
P39053	IDBG-null	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG000000062825
P39053	IDBG-null	170381	Tuba4a	tubulin, alpha 4A	ENSMUSG000000026202
P39053	IDBG-null	191734	Lyz2	lysozyme 2	ENSMUSG000000069516
P39053	IDBG-null	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG000000043091
P39053	IDBG-null	190248	Kcna1	potassium voltage-gated channel, shaker-related subfam	ENSMUSG000000047976
P39053	IDBG-null	211468	Cnp	2',3'-cyclic nucleotide 3' phosphodiesterase	ENSMUSG000000006782
P39053	IDBG-null	204179	Ywhag	tyrosine 3-monoxygenase/tryptophan 5-monoxygenase	ENSMUSG000000051391
P39053	IDBG-null	163852	Calm1	calmodulin 1	ENSMUSG000000001175
P39053	IDBG-null	162948	Lgi1	leucine-rich repeat LGI family, member 1	ENSMUSG000000067242
P39053	IDBG-null	152459	Gda	guanine deaminase	ENSMUSG000000058624
P39053	IDBG-null	144350	Tubb2c	tubulin, beta 2C	ENSMUSG000000036752
P39053	IDBG-null	185044	Kcna2	potassium voltage-gated channel, shaker-related subfam	ENSMUSG000000040724
P39053	IDBG-null	133249	Adam22	a disintegrin and metallopeptidase domain 22	ENSMUSG000000040537
P39053	IDBG-null	179144	Tubb5	tubulin, beta 5	ENSMUSG000000001525
P39053	IDBG-null	206719	Kcnab2	potassium voltage-gated channel, shaker-related subfam	ENSMUSG000000028931
P39053	IDBG-null	193317	Dlg4	discs, large homolog 4 (Drosophila)	ENSMUSG000000020886
P39053	IDBG-null	144904	Grin1	glutamate receptor, ionotropic, NMDA1 (zeta 1)	ENSMUSG000000026959

P39053	IDBG-null	260830	Prnp	prion protein	ENSMUSG00000079037
Q99K90	IDBG-null	146254	Traf2	TNF receptor-associated factor 2	ENSMUSG00000026942
Q99K90	IDBG-null	184197	Ncor1	nuclear receptor co-repressor 1	ENSMUSG00000018501
Q99K90	IDBG-null	132962	Map3k7	mitogen-activated protein kinase kinase kinase 7	ENSMUSG00000028284
Q99K90	IDBG-null	189844	Tnfrsf1a	tumor necrosis factor receptor superfamily, member 1a	ENSMUSG00000030341
Q99K90	IDBG-null	172055	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member	ENSMUSG00000021270
Q99K90	IDBG-null	139272	Cdc37	cell division cycle 37 homolog (S. cerevisiae)	ENSMUSG00000019471
Q99K90	IDBG-null	163423	Tab1	TGF-beta activated kinase 1/MAP3K7 binding protein 1	ENSMUSG00000022414
Q99K90	IDBG-null	167393	Ppp6c	protein phosphatase 6, catalytic subunit	ENSMUSG00000026753
Q99K90	IDBG-null	31971	NCOR1	nuclear receptor corepressor 1	ENSG00000141027
Q99K90	IDBG-null	79992	ERBB4	v-erb-a erythroblastic leukemia viral oncogene homolog 4	ENSG00000178568
Q99K90	IDBG-null	204202	Trim30a	tripartite motif-containing 30A	ENSMUSG00000030921
Q99K90	IDBG-null	163320	2810422J05Rik	RIKEN cDNA 2810422J05 gene	ENSMUSG00000055553
Q99K90	IDBG-null	197491	Tmem115	transmembrane protein 115	ENSMUSG00000010045
Q99K90	IDBG-null	201307	Ubc	ubiquitin C	ENSMUSG00000008348
O88569	IDBG-null	49833	PRNP	prion protein	ENSG00000171867
O88569	IDBG-null	136275	Pygm	muscle glycogen phosphorylase	ENSMUSG00000032648
O88569	IDBG-null	88484	SET	SET nuclear oncogene	ENSG00000119335
O88569	IDBG-null	209641	Csnk2a1	casein kinase 2, alpha 1 polypeptide	ENSMUSG00000074698
O88569	IDBG-null	152187	Eif2s1	eukaryotic translation initiation factor 2, subunit 1 alpha	ENSMUSG00000021116
O88569	IDBG-null	191542	Cct2	chaperonin containing Tcp1, subunit 2 (beta)	ENSMUSG00000034024
O88569	IDBG-null	145597	Pold2	polymerase (DNA directed), delta 2, regulatory subunit	ENSMUSG00000020471
O88569	IDBG-null	173563	Cct8	chaperonin containing Tcp1, subunit 8 (theta)	ENSMUSG00000025613
O88569	IDBG-null	170572	Selenbp2	selenium binding protein 2	ENSMUSG00000068877
O88569	IDBG-null	168985	Aldh1l1	aldehyde dehydrogenase 1 family, member L1	ENSMUSG00000030088
O88569	IDBG-null	132917	Cct5	chaperonin containing Tcp1, subunit 5 (epsilon)	ENSMUSG00000022234
O88569	IDBG-null	153613	Hspa8	heat shock protein 8	ENSMUSG00000015656
O88569	IDBG-null	207470	Actb	actin, beta	ENSMUSG00000029580
O88569	IDBG-null	160648	Fbp1	fructose biphosphatase 1	ENSMUSG00000069805
O88569	IDBG-null	1696497	Atp5b	ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit	ENSMUSG00000025393
O88569	IDBG-null	175870	Mta1	metastasis associated 1	ENSMUSG00000021144
O88569	IDBG-null	178482	Alb	albumin	ENSMUSG00000029368
O88569	IDBG-null	137484	Tcp1	t-complex protein 1	ENSMUSG00000068039
O88569	IDBG-null	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
O88569	IDBG-null	140436	Dnm2	dynamamin 2	ENSMUSG00000033335
O88569	IDBG-null	165898	Ftcd	formiminotransferase cyclodeaminase	ENSMUSG00000001155
O88569	IDBG-null	145944	Gm5506	predicted gene 5506	ENSMUSG00000005904
O88569	IDBG-null	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor protein)	ENSG00000145335
O88569	IDBG-null	155533	Dmrt2	doublesex and mab-3 related transcription factor 2	ENSMUSG00000048138
O88569	IDBG-null	170858	Ppp2ca	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	ENSMUSG00000020349
O88569	IDBG-null	155224	Set	SET nuclear oncogene	ENSMUSG00000054766
O88569	IDBG-null	177358	Tnf	tumor necrosis factor	ENSMUSG00000024401
Q80VW5	IDBG-null	193102	Lrrc4c	leucine rich repeat containing 4C	ENSMUSG00000050587
Q80VW5	IDBG-null	180576	Myo15	myosin XV	ENSMUSG00000042678
Q80VW5	IDBG-null	65343	MYO7A	myosin VIIA	ENSG00000137474
Q9DBR4	IDBG-null	172954	App	amyloid beta (A4) precursor protein	ENSMUSG00000022892
Q9DBR4	IDBG-null	73479	MAPK8	mitogen-activated protein kinase 8	ENSG00000107643
Q9DBR4	IDBG-null	15151	APBB2	amyloid beta (A4) precursor protein-binding, family B, member 2	ENSG00000163697
Q9DBR4	IDBG-null	148417	Mapk8	mitogen-activated protein kinase 8	ENSMUSG00000021936
Q9DBR4	IDBG-null	3485	SMAD4	SMAD family member 4	ENSG00000141646
Q9DBR4	IDBG-null	28871	SMURF1	SMAD specific E3 ubiquitin protein liqase 1	ENSG00000198742
P46097	IDBG-null	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG00000027273
P46097	IDBG-null	189759	Vamp2	vesicle-associated membrane protein 2	ENSMUSG00000020894
P46097	IDBG-null	203389	Stx1a	syntaxin 1A (brain)	ENSMUSG00000007207
P46097	IDBG-null	22989	SCAMP5	secretory carrier membrane protein 5	ENSG000001198794
P46097	IDBG-null	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor protein)	ENSG00000145335
P46097	IDBG-null	189557	Syt1	synaptotagmin I	ENSMUSG00000035864
Q924W6	IDBG-null	147481	Cbx3	chromobox homolog 3 (Drosophila HP1 gamma)	ENSMUSG00000029836
Q924W6	IDBG-null	189469	Cbx5	chromobox homolog 5 (Drosophila HP1a)	ENSMUSG00000009575
Q924W6	IDBG-null	209987	Cbx1	chromobox homolog 1 (Drosophila HP1 beta)	ENSMUSG00000018666
Q61233	IDBG-null	158983	Mapk14	mitogen-activated protein kinase 14	ENSMUSG00000053436
Q61233	IDBG-null	191007	Cnn3	calponin 3, acidic	ENSMUSG00000053931
Q61233	IDBG-null	198115	Rnf2	ring finger protein 2	ENSMUSG00000026484
Q60819	IDBG-null	158468	Axl	AXL receptor tyrosine kinase	ENSMUSG00000020602
Q60819	IDBG-null	152695	Sykb	spleen tyrosine kinase	ENSMUSG00000021457
Q60819	IDBG-null	163447	Il2rq	interleukin 2 receptor, gamma chain	ENSMUSG00000031304
Q60819	IDBG-null	146254	Traf2	TNF receptor-associated factor 2	ENSMUSG00000026942
P83510	IDBG-null	183743	Nedd4	neural precursor cell expressed, developmentally down-regulated 4	ENSMUSG00000032216
P83510	IDBG-null	156674	Tcf4	transcription factor 4	ENSMUSG00000053477
P83510	IDBG-null	205243	Cttnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
P83510	IDBG-null	180861	Zc3h13	zinc finger CCH type containing 13	ENSMUSG00000022000
P83510	IDBG-null	186169	Zfp326	zinc finger protein 326	ENSMUSG00000029290
P83510	IDBG-null	139346	Mllt10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog)	ENSMUSG00000026743
P83510	IDBG-null	201862	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of transcription 1	ENSMUSG00000032481
P83510	IDBG-null	267922	Smarcd2	SWI/SNF related, matrix associated, actin dependent regulator of transcription 2	ENSMUSG00000078619
P83510	IDBG-null	181503	Flii	flightless I homolog (Drosophila)	ENSMUSG00000002812
P83510	IDBG-null	143983	Trim28	tripartite motif-containing 28	ENSMUSG00000005566
P83510	IDBG-null	129915	Rbm14	RNA binding motif protein 14	ENSMUSG00000006456
P83510	IDBG-null	196765	Mybbp1a	MYB binding protein (P160) 1a	ENSMUSG00000040463
P83510	IDBG-null	137755	Wtpa	Wilms' tumour 1-associating protein	ENSMUSG00000060475
P83510	IDBG-null	135895	Ubr5	ubiquitin protein liqase E3 component n-recognin 5	ENSMUSG00000037487
P83510	IDBG-null	175749	Dot1l	DOT1-like, histone H3 methyltransferase (S. cerevisiae)	ENSMUSG00000061589
P83510	IDBG-null	169383	Rif1	Rap1 interacting factor 1 homolog (yeast)	ENSMUSG00000036202
P83510	IDBG-null	197552	Smarcc2	SWI/SNF related, matrix associated, actin dependent regulator of transcription 2	ENSMUSG00000025369
P83510	IDBG-null	207801	Atad3a	ATPase family, AAA domain containing 3A	ENSMUSG00000029036
P83510	IDBG-null	130805	Rbm28	RNA binding motif protein 28	ENSMUSG00000029701
P83510	IDBG-null	176882	Chd1l	chromodomain helicase DNA binding protein 1-like	ENSMUSG00000028089
P83510	IDBG-null	140748	Carm1	coactivator-associated arginine methyltransferase 1	ENSMUSG00000032185
P83510	IDBG-null	195347	Arid1a	AT rich interactive domain 1A (SWI-like)	ENSMUSG00000007880

P83510	IDBG-null	187693	Wdr47	WD repeat domain 47	ENSMUSG00000040389
P83510	IDBG-null	171022	Smarca5	SWI/SNF related, matrix associated, actin dependent regu	ENSMUSG00000031715
P83510	IDBG-null	177837	Tcf7l2	transcription factor 7-like 2, T-cell specific, HMG-box	ENSMUSG00000024985
Q8CG79	IDBG-null	165835	Pik3ap1	phosphoinositide-3-kinase adaptor protein 1	ENSMUSG00000025017
Q8CG79	IDBG-null	173589	Irs1	insulin receptor substrate 1	ENSMUSG00000055980
Q8CG79	IDBG-null	179639	Rasd1	RAS, dexamethasone-induced 1	ENSMUSG00000049892
P21237	IDBG-null	158484	Ntrk2	neurotrophic tyrosine kinase, receptor, type 2	ENSMUSG00000055254
P21237	IDBG-null	136615	Plq	plasminogen	ENSMUSG00000059481
P21237	IDBG-null	158252	Cpe	carboxypeptidase E	ENSMUSG00000037852
Q9Z351	IDBG-null	174493	Anxa6	annexin A6	ENSMUSG00000018340
Q9Z351	IDBG-null	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
Q9Z351	IDBG-null	212642	Grn	granulin	ENSMUSG00000034708
Q9CY57	IDBG-null	180907	Prmt1	protein arginine N-methyltransferase 1	ENSMUSG00000052429
Q9CY57	IDBG-null	161405	Prmt5	protein arginine N-methyltransferase 5	ENSMUSG00000023110
Q64378	IDBG-null	142259	Nr3c1	nuclear receptor subfamily 3, group C, member 1	ENSMUSG00000024431
Q64378	IDBG-null	190479	Rasgf1	RAS protein-specific guanine nucleotide-releasing factor 1	ENSMUSG00000032356
Q07139	IDBG-null	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG00000004040
Q07139	IDBG-null	65239	ECT2	epithelial cell transforming sequence 2 oncogene	ENSG00000114346
Q92103	IDBG-null	210423	Cacnb1	calcium channel, voltage-dependent, beta 1 subunit	ENSMUSG00000020882
Q92103	IDBG-null	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380
Q9DBS9	IDBG-null	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q9DBS9	IDBG-null	28871	SMURF1	SMAD specific E3 ubiquitin protein ligase 1	ENSG00000198742
Q3TX57	IDBG-null	131663	Esr1	estrogen receptor 1 (alpha)	ENSMUSG00000019768
O54967	IDBG-null	161623	Stxbp1	syntaxin binding protein 1	ENSMUSG00000026797
O54967	IDBG-null	130893	Klc2	kinesin light chain 2	ENSMUSG00000024862
O54967	IDBG-null	186957	Eef1a1	eukaryotic translation elongation factor 1 alpha 1	ENSMUSG00000037742
O54967	IDBG-null	168772	Kif5c	kinesin family member 5C	ENSMUSG00000026764
O54967	IDBG-null	159551	Dnm1	dynamitin 1	ENSMUSG00000026825
O54967	IDBG-null	133375	Tubgcp3	tubulin, gamma complex associated protein 3	ENSMUSG00000007059
O54967	IDBG-null	173074	Actr1a	ARP1 actin-related protein 1 homolog A, centractin alpha	ENSMUSG00000025228
O54967	IDBG-null	153613	Hspa8	heat shock protein 8	ENSMUSG00000015656
O54967	IDBG-null	211869	Tubg1	tubulin, gamma 1	ENSMUSG00000035198
O54967	IDBG-null	137748	Kcnma1	potassium large conductance calcium-activated channel, s	ENSMUSG00000063142
O54967	IDBG-null	191571	Khdrbs1	KH domain containing, RNA binding, signal transduction a	ENSMUSG00000028790
O54967	IDBG-null	132410	Pik3c3	phosphoinositide-3-kinase, class 3	ENSMUSG00000033628
O54967	IDBG-null	156172	Atp1a3	ATPase, Na+/K+ transporting, alpha 3 polypeptide	ENSMUSG00000040907
O54967	IDBG-null	205352	Atp1a2	ATPase, Na+/K+ transporting, alpha 2 polypeptide	ENSMUSG00000007097
O54967	IDBG-null	186932	A830010M20R1	RIKEN cDNA A830010M20 gene	ENSMUSG00000044060
O54967	IDBG-null	144990	Actr1b	ARP1 actin-related protein 1 homolog B, centractin beta (ENSMUSG00000037351
O54967	IDBG-null	195461	Pik3r4	phosphatidylinositol 3 kinase, regulatory subunit, polypep	ENSMUSG00000023571
O54967	IDBG-null	179812	Atp1a1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	ENSMUSG00000033161
O54967	IDBG-null	211626	Tubgcp2	tubulin, gamma complex associated protein 2	ENSMUSG00000025474
O54967	IDBG-null	201853	Tubgcp4	tubulin, gamma complex associated protein 4	ENSMUSG00000027263
O54967	IDBG-null	186141	Ampd2	adenosine monophosphate deaminase 2	ENSMUSG00000027889
Q8R1A4	IDBG-null	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
Q99KG3	IDBG-null	160992	Lmna	lamin A	ENSMUSG00000028063
P41242	IDBG-null	129513	Crebbp	CREB binding protein	ENSMUSG00000022521
Q3U3T8	IDBG-null	18226	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit	ENSG00000132356
Q9CZW4	IDBG-null	141537	Foxa1	forkhead box A1	ENSMUSG00000035451
P42209	IDBG-null	131376	Flnb	filamin, beta	ENSMUSG00000025278
P42209	IDBG-null	146513	Mical1	microtubule associated monooxygenase, calponin and LIM	ENSMUSG00000019823
P42209	IDBG-null	159635	Stk38	serine/threonine kinase 38	ENSMUSG00000024006
Q925Q8	IDBG-null	184197	Ncor1	nuclear receptor co-repressor 1	ENSMUSG00000018501
Q9JIS7	IDBG-null	129012	Cabp4	calcium binding protein 4	ENSMUSG00000024842
Q8OV03	IDBG-null	196509	Irf8	interferon regulatory factor 8	ENSMUSG000000041515
Q8BQ30	IDBG-null	163730	Traf1	TNF receptor-associated factor 1	ENSMUSG00000026875
Q8C0D9	IDBG-null	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
P33896	Ifnar1	158468	Axl	AXL receptor tyrosine kinase	ENSMUSG00000002602
P33896	Ifnar1	164782	Ep300	E1A binding protein p300	ENSMUSG00000055024
P33896	Ifnar1	57611	FBXW11	F-box and WD repeat domain containing 11	ENSG00000072803
P33896	Ifnar1	152917	Stat4	signal transducer and activator of transcription 4	ENSMUSG00000062939
P33896	Ifnar1	132667	Socs1	suppressor of cytokine signaling 1	ENSMUSG00000038037
Q60751	Igf1r	150150	Adcyap1r1	adenylate cyclase activating polypeptide 1 receptor 1	ENSMUSG00000029778
Q60751	Igf1r	150690	Grb10	growth factor receptor bound protein 10	ENSMUSG00000020176
Q60751	Igf1r	201307	Ubc	ubiquitin C	ENSMUSG00000008348
Q60751	Igf1r	166211	Gnb2l1	guanine nucleotide binding protein (G protein), beta poly	ENSMUSG00000020372
Q60751	Igf1r	205027	Giyyf1	GRB10 interacting GYF protein 1	ENSMUSG00000029714
P40694	Ighmbp2	171427	Btk	Bruton agammaglobulinemia tyrosine kinase	ENSMUSG00000031264
P40694	Ighmbp2	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG00000004040
Q9Z1M8	Ik	160992	Lmna	lamin A	ENSMUSG00000028063
Q03267	Ikzf1	158495	Sumo1	SMT3 suppressor of mif two 3 homolog 1 (yeast)	ENSMUSG00000026021
Q03267	Ikzf1	176105	Pias3	protein inhibitor of activated STAT 3	ENSMUSG00000028101
Q03267	Ikzf1	65053	ULK1	unc-51-like kinase 1 (C. elegans)	ENSG00000177169
Q03267	Ikzf1	23397	SIN3A	SIN3 homolog A, transcription regulator (yeast)	ENSG00000169375
Q03267	Ikzf1	35825	SIN3B	SIN3 homolog B, transcription regulator (yeast)	ENSG00000127511
Q03267	Ikzf1	14532	CHD4	chromodomain helicase DNA binding protein 4	ENSG00000111642
Q03267	Ikzf1	6522	CTBP1	C-terminal binding protein 1	ENSG00000159692
Q03267	Ikzf1	28592	SMARCA4	SWI/SNF related, matrix associated, actin dependent regu	ENSG00000127616
Q03267	Ikzf1	151396	Ube2i	ubiquitin-conjugating enzyme E2I	ENSMUSG00000015120
Q03267	Ikzf1	173092	Uba2	ubiquitin-like modifier activating enzyme 2	ENSMUSG00000052997
Q03267	Ikzf1	167001	Gzmb	granzyme B	ENSMUSG00000015437
Q03267	Ikzf1	188351	Cd4	CD4 antigen	ENSMUSG00000023274
Q03267	Ikzf1	203203	Nos2	nitric oxide synthase 2, inducible	ENSMUSG00000020826
Q03267	Ikzf1	171764	Ldb1	LIM domain binding 1	ENSMUSG00000025223
Q03267	Ikzf1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q03267	Ikzf1	190457	Chd3	chromodomain helicase DNA binding protein 3	ENSMUSG00000018474
Q03267	Ikzf1	143980	Hdac2	histone deacetylase 2	ENSMUSG00000019777
Q03267	Ikzf1	141000	Smarca4	SWI/SNF related, matrix associated, actin dependent regu	ENSMUSG00000032187
Q03267	Ikzf1	201862	Smarcc1	SWI/SNF related, matrix associated, actin dependent regu	ENSMUSG00000032481

Q03267	Ikzf1	191058	Hdac1	histone deacetylase 1	ENSMUSG00000028800
Q03267	Ikzf1	210625	Ikzf3	IKAROS family zinc finger 3	ENSMUSG00000018168
Q03267	Ikzf1	155600	Smarca2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily A member 2	ENSMUSG00000024921
Q03267	Ikzf1	211193	Ctbp2	C-terminal binding protein 2	ENSMUSG00000030970
Q60837	Il12rb1	172251	Irf1	interferon regulatory factor 1	ENSMUSG00000018899
Q60837	Il12rb1	190185	Sfp1	SFFV proviral integration 1	ENSMUSG00000002111
Q60837	Il12rb1	181123	Irf3	interferon regulatory factor 3	ENSMUSG00000003184
Q60837	Il12rb1	164545	Il12b	interleukin 12b	ENSMUSG00000004296
Q61098	Il18r1	154747	Irak1	interleukin-1 receptor-associated kinase 1	ENSMUSG00000031392
Q61098	Il18r1	196509	Irf8	interferon regulatory factor 8	ENSMUSG0000000431515
Q80XF5	Il22ra2	192083	Il22	interleukin 22	ENSMUSG000000074695
Q8CGK5	Il28ra	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG00000004040
Q00560	Il6st	214604	Socs3	suppressor of cytokine signaling 3	ENSMUSG000000053113
Q00560	Il6st	139050	Il11	interleukin 11	ENSMUSG00000004371
Q00560	Il6st	138483	Il11ra1	interleukin 11 receptor, alpha chain 1	ENSMUSG000000073889
Q00560	Il6st	142284	Osm	oncostatin M	ENSMUSG000000058755
Q00560	Il6st	102945	IL6R	interleukin 6 receptor	ENSG00000160712
Q00560	Il6st	129240	Syp	synaptophysin	ENSMUSG000000031144
Q00560	Il6st	156977	Jak2	Janus kinase 2	ENSMUSG000000024789
Q00560	Il6st	196834	Ptpn11	protein tyrosine phosphatase, non-receptor type 11	ENSMUSG000000043733
Q00560	Il6st	144970	Il6	interleukin 6	ENSMUSG000000025746
Q00560	Il6st	165233	Il6ra	interleukin 6 receptor, alpha	ENSMUSG000000027947
Q00560	Il6st	64029	UBC	ubiquitin C	ENSG00000150991
Q00560	Il6st	74417	CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence	ENSG00000110395
Q00560	Il6st	58105	PTPN11	protein tyrosine phosphatase, non-receptor type 11	ENSG00000179295
Q00560	Il6st	214821	Hqs	HGF-regulated tyrosine kinase substrate	ENSMUSG000000025793
Q00560	Il6st	197587	Lmo4	LIM domain only 4	ENSMUSG000000028266
Q00560	Il6st	209673	Il27	interleukin 27	ENSMUSG000000044701
Q632W7	Inadl	131990	Grin2a	glutamate receptor, ionotropic, NMDA2A (epsilon 1)	ENSMUSG000000059003
Q632W7	Inadl	3255	KCNJ15	potassium inwardly-rectifying channel, subfamily J, member 15	ENSG00000157551
Q632W7	Inadl	205443	Kcnj10	potassium inwardly-rectifying channel, subfamily J, member 10	ENSMUSG000000044708
Q632W7	Inadl	179204	Kcnj15	potassium inwardly-rectifying channel, subfamily J, member 15	ENSMUSG000000062609
Q632W7	Inadl	184594	Grin2d	glutamate receptor, ionotropic, NMDA2D (epsilon 4)	ENSMUSG000000002771
Q632W7	Inadl	194672	Grin2b	glutamate receptor, ionotropic, NMDA2B (epsilon 2)	ENSMUSG000000030209
Q632W7	Inadl	214257	Grin2c	glutamate receptor, ionotropic, NMDA2C (epsilon 3)	ENSMUSG000000020734
Q632W7	Inadl	180291	Htr2a	5-hydroxytryptamine (serotonin) receptor 2A	ENSMUSG000000034997
Q8VEK6	Inq3	186954	Ldha	lactate dehydrogenase A	ENSMUSG000000063229
Q8VEK6	Inq3	158996	Hdgf	hepatoma-derived growth factor	ENSMUSG000000004897
Q8VEK6	Inq3	208186	Trrap	transformation/transcription domain-associated protein	ENSMUSG000000045482
Q8VEK6	Inq3	190143	Ep400	E1A binding protein p400	ENSMUSG000000029505
Q8VEK6	Inq3	132192	Kat5	K(lysine) acetyltransferase 5	ENSMUSG000000024926
Q8VEK6	Inq3	179881	Dmap1	DNA methyltransferase 1-associated protein 1	ENSMUSG000000009640
Q8VEK6	Inq3	182674	Ciapin1	cytokine induced apoptosis inhibitor 1	ENSMUSG000000031781
Q8VEK6	Inq3	135252	Brd8	bromodomain containing 8	ENSMUSG000000003778
Q8VEK6	Inq3	190649	Morf4l1	mortality factor 4 like 1	ENSMUSG000000062270
Q8VEK6	Inq3	161272	Actq2	actin, gamma 2, smooth muscle, enteric	ENSMUSG000000059430
Q8VEK6	Inq3	207470	Actb	actin, beta	ENSMUSG000000029580
Q8VEK6	Inq3	136942	Actl6a	actin-like 6A	ENSMUSG000000027671
Q8VEK6	Inq3	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG000000062825
Q8VEK6	Inq3	102316	VPS72	vacuolar protein sorting 72 homolog (S. cerevisiae)	ENSG00000163159
Q8VEK6	Inq3	127970	Epc1	enhancer of polycomb homolog 1 (Drosophila)	ENSMUSG000000024240
Q8VEK6	Inq3	168697	Epc2	enhancer of polycomb homolog 2 (Drosophila)	ENSMUSG000000069495
Q8VEK6	Inq3	144556	Myc	myelocytomatosis oncogene	ENSMUSG000000023346
Q8VEK6	Inq3	151490	Max	Max protein	ENSMUSG000000059436
Q8VEK6	Inq3	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG000000026380
Q8VEK6	Inq3	159268	Esrrb	estrogen related receptor, beta	ENSMUSG000000021255
Q9ES52	Inpp5d	195070	Plcg2	phospholipase C, gamma 2	ENSMUSG000000034330
Q9ES52	Inpp5d	211621	Plcg1	phospholipase C, gamma 1	ENSMUSG000000016933
Q9ES52	Inpp5d	204832	Slamf1	signaling lymphocytic activation molecule family member 1	ENSMUSG000000015316
Q9ES52	Inpp5d	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide gamma	ENSMUSG000000041417
Q9ES52	Inpp5d	164495	Shc1	src homology 2 domain-containing transforming protein C	ENSMUSG000000042626
Q9ES52	Inpp5d	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG000000059923
Q9ES52	Inpp5d	167366	Jak1	Janus kinase 1	ENSMUSG000000028530
Q9ES52	Inpp5d	166648	Jak3	Janus kinase 3	ENSMUSG000000031805
Q9ES52	Inpp5d	96377	CSF3R	colony stimulating factor 3 receptor (granulocyte)	ENSG00000119535
Q9ES52	Inpp5d	187638	Csf3r	colony stimulating factor 3 receptor (granulocyte)	ENSMUSG000000028859
Q9ES52	Inpp5d	171574	Cd22	CD22 antigen	ENSMUSG000000030577
Q9ES52	Inpp5d	103007	SHC1	SHC (Src homology 2 domain containing) transforming protein 1	ENSG00000160691
Q9ES52	Inpp5d	203935	Fcgr2b	Fc receptor, IgG, low affinity IIb	ENSMUSG000000026656
Q9ES52	Inpp5d	202184	Inpp1	inositol polyphosphate phosphatase-like 1	ENSMUSG000000032737
Q9ES52	Inpp5d	158280	Hnrnpk	heterogeneous nuclear ribonucleoprotein K	ENSMUSG000000021546
Q9ES52	Inpp5d	32229	LRRK1	leucine-rich repeat kinase 1	ENSG00000154237
Q9ES52	Inpp5d	199566	Gab2	growth factor receptor bound protein 2-associated protein 2	ENSMUSG000000004508
Q9ES52	Inpp5d	156241	Dok3	docking protein 3	ENSMUSG000000035711
Q9ES52	Inpp5d	199949	Sos1	son of sevenless homolog 1 (Drosophila)	ENSMUSG000000024241
Q9ES52	Inpp5d	144636	Sos2	son of sevenless homolog 2 (Drosophila)	ENSMUSG000000034801
Q9ES52	Inpp5d	2349	BCR	breakpoint cluster region	ENSG00000186716
Q9ES52	Inpp5d	137429	Rsu1	Ras suppressor protein 1	ENSMUSG000000026727
Q9ES52	Inpp5d	89599	ABL1	c-abl oncogene 1, non-receptor tyrosine kinase	ENSG00000097007
Q9ES52	Inpp5d	196834	Ptpn11	protein tyrosine phosphatase, non-receptor type 11	ENSMUSG000000043733
Q9ES52	Inpp5d	145005	Asap1	ArfGAP with SH3 domain, ankyrin repeat and PH domain1	ENSMUSG000000022377
Q9ES52	Inpp5d	165254	Map4k1	mitogen-activated protein kinase kinase kinase kinase 1	ENSMUSG000000037337
Q9ES52	Inpp5d	159342	Dok1	docking protein 1	ENSMUSG000000068335
Q9ES52	Inpp5d	149650	Nck2	non-catalytic region of tyrosine kinase adaptor protein 2	ENSMUSG000000066877
Q9ES52	Inpp5d	170167	Tec	tec protein tyrosine kinase	ENSMUSG000000029217
Q9ES52	Inpp5d	170552	Csk	c-src tyrosine kinase	ENSMUSG000000032312
Q9ES52	Inpp5d	177951	Phgdh	3-phosphoglycerate dehydrogenase	ENSMUSG000000053398
Q9ES52	Inpp5d	170464	Rasa1	RAS p21 protein activator 1	ENSMUSG000000021549
Q9ES52	Inpp5d	193200	Nck1	non-catalytic region of tyrosine kinase adaptor protein 1	ENSMUSG000000032475

Q9ES52	Inpp5d	179481	Dok2	docking protein 2	ENSMUSG00000022102
Q9ES52	Inpp5d	628689	PIK3R1	Phosphatidylinositol 3-kinase regulatory subunit alpha	ENSBTAG00000010989
P35569	Irs1	188252	Phip	pleckstrin homology domain interacting protein	ENSMUSG00000032253
P35569	Irs1	176947	Ncl	nucleolin	ENSMUSG000000026234
P35569	Irs1	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide	ENSMUSG000000041417
P35569	Irs1	204403	Mtor	mechanistic target of rapamycin (serine/threonine kinase)	ENSMUSG00000028991
P35569	Irs1	80957	PTPN1	protein tyrosine phosphatase, non-receptor type 1	ENSG00000196396
P35569	Irs1	22529	INSR	insulin receptor	ENSG00000171105
P35569	Irs1	167366	Jak1	Janus kinase 1	ENSMUSG00000028530
P35569	Irs1	209275	Il4ra	interleukin 4 receptor, alpha	ENSMUSG000000030748
P35569	Irs1	156977	Jak2	Janus kinase 2	ENSMUSG000000024789
P35569	Irs1	166648	Jak3	Janus kinase 3	ENSMUSG000000031805
P35569	Irs1	61938	RPS6KB1	ribosomal protein S6 kinase, 70kDa, polypeptide 1	ENSG00000108443
P35569	Irs1	99443	JAK1	Janus kinase 1	ENSG00000162434
P35569	Irs1	148417	Mapk8	mitogen-activated protein kinase 8	ENSMUSG000000021936
P35569	Irs1	205243	Ctnnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
P35569	Irs1	212973	Ccnd1	cyclin D1	ENSMUSG00000070348
P35569	Irs1	211991	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG000000018326
P35569	Irs1	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG000000020849
P35569	Irs1	199014	Eif2ak2	eukaryotic translation initiation factor 2-alpha kinase 2	ENSMUSG000000024079
P35569	Irs1	143980	Hdac2	histone deacetylase 2	ENSMUSG000000019777
P35569	Irs1	201307	Ubc	ubiquitin C	ENSMUSG00000008348
P35569	Irs1	196834	Ptpn11	protein tyrosine phosphatase, non-receptor type 11	ENSMUSG000000043733
P35569	Irs1	207716	Trp53bp2	transformation related protein 53 binding protein 2	ENSMUSG000000026510
P35569	Irs1	209638	Phb	prohibitin	ENSMUSG000000038845
P35569	Irs1	141714	Ppp2r1a	protein phosphatase 2 (formerly 2A), regulatory subunit A	ENSMUSG00000007564
P35569	Irs1	136238	Hist1h1d	histone cluster 1, H1d	ENSMUSG000000052565
P35569	Irs1	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, homolog 1)	ENSMUSG000000020063
Q920Y7	Irs4	201307	Ubc	ubiquitin C	ENSMUSG00000008348
Q920Y7	Irs4	128118	Asb4	ankyrin repeat and SOCS box-containing 4	ENSMUSG000000042607
P24063	Itgal	167243	Itgb2	integrin beta 2	ENSMUSG00000000290
P24063	Itgal	182078	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	ENSMUSG000000020048
P09055	Itgb1	177329	Ltb	lymphotoxin B	ENSMUSG000000024399
P09055	Itgb1	206253	Tmem158	transmembrane protein 158	ENSMUSG000000054871
P09055	Itgb1	208539	Nme2	non-metastatic cells 2, protein (NM23B) expressed in	ENSMUSG000000020857
P09055	Itgb1	154844	Fam203a	family with sequence similarity 203, member A	ENSMUSG000000022554
P09055	Itgb1	183905	Itga2	integrin alpha 2	ENSMUSG000000015533
P09055	Itgb1	168623	Tspan3	tetraspanin 3	ENSMUSG000000032324
P09055	Itgb1	165137	Cd47	CD47 antigen (Rh-related antigen, integrin-associated sig	ENSMUSG000000055447
P09055	Itgb1	136362	Cldn11	claudin 11	ENSMUSG000000037625
P09055	Itgb1	175174	Sparc	secreted acidic cysteine rich glycoprotein	ENSMUSG000000018593
P09055	Itgb1	204955	Ilk	integrin linked kinase	ENSMUSG000000030890
P09055	Itgb1	137732	Vegfb	vascular endothelial growth factor B	ENSMUSG000000024962
P09055	Itgb1	154384	Lgals3	lectin, galactose binding, soluble 3	ENSMUSG000000050335
P09055	Itgb1	209447	Itga3	integrin alpha 3	ENSMUSG000000001507
P09055	Itgb1	194595	Fgr	Gardner-Rasheed feline sarcoma viral (Fgr) oncogene hom	ENSMUSG000000028874
P09055	Itgb1	158216	Abi1	c-abl oncogene 1, non-receptor tyrosine kinase	ENSMUSG000000026842
P09055	Itgb1	209984	Hck	hemopoietic cell kinase	ENSMUSG000000003283
P09055	Itgb1	104034	NCSTN	nicastrin	ENSG00000162736
P09055	Itgb1	11235	PSEN1	presenilin 1	ENSG00000080815
P09055	Itgb1	184242	Cnot1	CCR4-NOT transcription complex, subunit 1	ENSMUSG000000036550
P09055	Itgb1	189590	Itga5	integrin alpha 5 (fibronectin receptor alpha)	ENSMUSG000000005555
P09055	Itgb1	198684	Itga7	integrin alpha 7	ENSMUSG000000025348
P09055	Itgb1	212973	Ccnd1	cyclin D1	ENSMUSG000000070348
P09055	Itgb1	158959	Csf2rb	colony stimulating factor 2 receptor, beta, low-affinity (gr	ENSMUSG000000071713
Q70309	Itgb5	148322	Ptk2	PTK2 protein tyrosine kinase 2	ENSMUSG000000022607
Q920Q8	Ivns1abp	155851	Arhgef1	Rho guanine nucleotide exchange factor (GEF) 1	ENSMUSG000000040940
Q920Q8	Ivns1abp	155698	Dmrtc2	doublesex and mab-3 related transcription factor like fam	ENSMUSG000000011349
Q920Q8	Ivns1abp	163429	El1	elongation factor RNA polymerase II	ENSMUSG000000070002
Q920Q8	Ivns1abp	174161	Tcf3	transcription factor 3	ENSMUSG000000020167
Q920Q8	Ivns1abp	183812	Cited4	Cbp/p300-interacting transactivator, with Glu/Asp-rich car	ENSMUSG000000070803
Q920Q8	Ivns1abp	152564	Zfp275	zinc finger protein 275	ENSMUSG000000031365
P09450	Junb	150158	Fosb	FBJ osteosarcoma oncogene B	ENSMUSG000000003545
P09450	Junb	158538	Fos	FBJ osteosarcoma oncogene	ENSMUSG000000021250
P09450	Junb	191058	Hdac1	histone deacetylase 1	ENSMUSG000000028800
P09450	Junb	143980	Hdac2	histone deacetylase 2	ENSMUSG000000019777
P09450	Junb	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG000000004040
P09450	Junb	207513	Prkcz	protein kinase C, zeta	ENSMUSG000000029053
P09450	Junb	40504	CCL2	chemokine (C-C motif) ligand 2	ENSG00000108691
P09450	Junb	177358	Tnf	tumor necrosis factor	ENSMUSG000000024401
P09450	Junb	144970	Il6	interleukin 6	ENSMUSG000000025746
P09450	Junb	164545	Il12b	interleukin 12b	ENSMUSG00000004296
P09450	Junb	134620	Dmtf1	cyclin D binding myb-like transcription factor 1	ENSMUSG000000042508
P09450	Junb	26868	ELF1	E74-like factor 1 (ets domain transcription factor)	ENSG00000120690
P09450	Junb	190185	Sfp1	SFFV proviral integration 1	ENSMUSG000000002111
P09450	Junb	75950	FLI1	Friend leukemia virus integration 1	ENSG00000151702
P09450	Junb	75897	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avi	ENSG00000134954
P09450	Junb	158624	Batf	basic leucine zipper transcription factor, ATF-like	ENSMUSG000000034266
P09450	Junb	210517	Itch	itchy, E3 ubiquitin protein ligase	ENSMUSG000000027598
P09450	Junb	208706	Batf3	basic leucine zipper transcription factor, ATF-like 3	ENSMUSG000000026630
P09450	Junb	201307	Ubc	ubiquitin C	ENSMUSG00000008348
P09450	Junb	175693	Smad3	MAD homolog 3 (Drosophila)	ENSMUSG000000032402
P09450	Junb	186053	Myod1	myogenic differentiation 1	ENSMUSG000000009471
Q61762	Kcna5	207513	Prkcz	protein kinase C, zeta	ENSMUSG000000029053
P63143	Kcnab1	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor	ENSG00000145335
P62482	Kcnab2	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor	ENSG00000145335
P62482	Kcnab2	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG000000062825
P62482	Kcnab2	170381	Tuba4a	tubulin, alpha 4A	ENSMUSG00000026202
P62482	Kcnab2	191734	Lyz2	lysozyme 2	ENSMUSG000000069516

P62482	Kcnab2	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG00000043091
P62482	Kcnab2	190248	Kcna1	potassium voltage-gated channel, shaker-related subfamily 1	ENSMUSG00000047976
P62482	Kcnab2	211468	Cnp	2',3'-cyclic nucleotide 3' phosphodiesterase	ENSMUSG00000006782
P62482	Kcnab2	204179	Ywhag	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000051391
P62482	Kcnab2	163852	Calm1	calmodulin 1	ENSMUSG00000001175
P62482	Kcnab2	162948	Lgi1	leucine-rich repeat LGI family, member 1	ENSMUSG00000067242
P62482	Kcnab2	135538	Syn1	synapsin I	ENSMUSG00000037217
P62482	Kcnab2	152459	Gda	guanine deaminase	ENSMUSG00000058624
P62482	Kcnab2	144350	Tubb2c	tubulin, beta 2C	ENSMUSG00000036752
P62482	Kcnab2	159551	Dnm1	dynamain 1	ENSMUSG00000026825
P62482	Kcnab2	185044	Kcna2	potassium voltage-gated channel, shaker-related subfamily 2	ENSMUSG00000040724
P62482	Kcnab2	133249	Adam22	a disintegrin and metallopeptidase domain 22	ENSMUSG00000040537
P62482	Kcnab2	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
P62482	Kcnab2	193317	Dlg4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
Q03719	Kcnd1	197072	Il16	interleukin 16	ENSMUSG000000001741
P41230	Kdm5c	189502	Nfe2	nuclear factor, erythroid derived 2	ENSMUSG00000058794
Q62240	Kdm5d	144115	Ewsr1	Ewing sarcoma breakpoint region 1	ENSMUSG00000009079
Q62240	Kdm5d	189502	Nfe2	nuclear factor, erythroid derived 2	ENSMUSG00000058794
Q62240	Kdm5d	250737	Zbtb9	zinc finger and BTB domain containing 9	ENSMUSG00000079605
Q5NCY0	Kdm6b	144562	Ash2l	ash2 (absent, small, or homeotic)-like (Drosophila)	ENSMUSG00000031575
Q5NCY0	Kdm6b	191981	Rbbp5	retinoblastoma binding protein 5	ENSMUSG00000026439
Q5NCY0	Kdm6b	201862	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of transcription 1	ENSMUSG00000032481
Q5NCY0	Kdm6b	141000	Smarca4	SWI/SNF related, matrix associated, actin dependent regulator of transcription 4	ENSMUSG00000032187
P97329	Kif20a	46715	KIF20A	kinesin family member 20A	ENSG00000112984
P33174	Kif4	107733	CEP170	centrosomal protein 170kDa	ENSG00000143702
P33174	Kif4	30703	PRC1	protein regulator of cytokinesis 1	ENSG00000198901
P33174	Kif4	93655	TUBGCP2	tubulin, gamma complex associated protein 2	ENSG00000130640
P33174	Kif4	74423	KIF4A	kinesin family member 4A	ENSG00000090889
P70188	Kifap3	154896	Spna2	spectrin alpha 2	ENSMUSG00000057738
P70188	Kifap3	210062	Kif3b	kinesin family member 3B	ENSMUSG000000027475
P70188	Kifap3	129545	Cdh2	cadherin 2	ENSMUSG00000024304
P70188	Kifap3	184766	Ctnd1	catenin (cadherin associated protein), delta 1	ENSMUSG00000034101
P70188	Kifap3	205243	Cttnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
O35082	Kl	213058	Wnt3	wingless-related MMTV integration site 3	ENSMUSG00000000125
O35082	Kl	181251	Wnt1	wingless-related MMTV integration site 1	ENSMUSG00000022997
O35082	Kl	141666	Wnt5a	wingless-related MMTV integration site 5A	ENSMUSG00000021994
O35082	Kl	198435	Wnt4	wingless-related MMTV integration site 4	ENSMUSG00000036856
O35082	Kl	12968	FGF23	fibroblast growth factor 23	ENSG00000118972
O35082	Kl	143767	Fgfr1	fibroblast growth factor receptor 1	ENSMUSG00000031565
O35082	Kl	17796	FGFR1	fibroblast growth factor receptor 1	ENSG00000077782
O35082	Kl	154924	Fgfr4	fibroblast growth factor receptor 4	ENSMUSG00000005320
O35082	Kl	153744	Fgfr3	fibroblast growth factor receptor 3	ENSMUSG00000054252
O88447	Klc1	149884	Mapk8ip3	mitogen-activated protein kinase 8 interacting protein 3	ENSMUSG00000024163
O88447	Klc1	205238	Clstn1	calsyntenin 1	ENSMUSG00000039953
O88447	Klc1	88646	CLSTN1	calsyntenin 1	ENSG00000171603
O88447	Klc1	127944	Kif5b	kinesin family member 5B	ENSMUSG00000006740
O88447	Klc1	96711	PABPC4	poly(A) binding protein, cytoplasmic 4 (inducible form)	ENSG00000090621
O88447	Klc1	41200	MAPK8IP1	mitogen-activated protein kinase 8 interacting protein 1	ENSG00000121653
O88447	Klc1	208586	Spa9	sperm associated antigen 9	ENSMUSG00000020859
O88447	Klc1	148417	Mapk8	mitogen-activated protein kinase 8	ENSMUSG00000021936
O88447	Klc1	172954	App	amyloid beta (A4) precursor protein	ENSMUSG00000022892
O88447	Klc1	192264	Mapk8ip1	mitogen-activated protein kinase 8 interacting protein 1	ENSMUSG00000027223
O88447	Klc1	168641	A1428936	expressed sequence A1428936	ENSMUSG00000019737
O88447	Klc1	130893	Klc2	kinesin light chain 2	ENSMUSG00000024862
O88447	Klc1	211346	Hap1	huntingtin-associated protein 1	ENSMUSG00000006930
O88447	Klc1	47783	FAT1	FAT tumor suppressor homolog 1 (Drosophila)	ENSG00000083857
O88447	Klc1	59405	SPAG9	sperm associated antigen 9	ENSG00000008294
Q92027	Klf5	128365	Lyn	Yamaguchi sarcoma viral (v-yes-1) oncogene homolog	ENSMUSG00000042228
Q92027	Klf5	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG00000024406
Q9J174	Klhl1	78488	TGFBR1	transforming growth factor, beta receptor 1	ENSG00000106799
Q9J174	Klhl1	30667	BMPR1B	bone morphogenetic protein receptor, type IB	ENSG00000138696
O08677	Kng1	177150	Enam	enamelin	ENSMUSG00000029286
P52293	Kpna2	192196	Ifng	interferon gamma	ENSMUSG000000055170
P52293	Kpna2	210164	Kpnb1	karyopherin (importin) beta 1	ENSMUSG00000001440
P52293	Kpna2	33529	LEF1	lymphoid enhancer-binding factor 1	ENSG00000138795
P52293	Kpna2	154154	Pcyt1a	phosphate cytidylyltransferase 1, choline, alpha isoform	ENSMUSG00000005615
P52293	Kpna2	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG00000024406
P52293	Kpna2	141522	Casp2	caspace 2	ENSMUSG00000029863
Q9CXF0	Kynu	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q9JJK2	Lanc12	175216	Map2k5	mitogen-activated protein kinase kinase 5	ENSMUSG00000058444
Q9JJK2	Lanc12	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
P00342	Ldhc	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q07797	Lqals3bp	197036	Stat2	signal transducer and activator of transcription 2	ENSMUSG00000040033
P61375	Lhx5	171764	Ldb1	LIM domain binding 1	ENSMUSG00000025223
P61375	Lhx5	162180	Ldb2	LIM domain binding 2	ENSMUSG000000039706
P97386	Liq3	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380
P97386	Liq3	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG00000024406
Q9QXD8	Limd1	100280	GF1	growth factor independent 1 transcription repressor	ENSG00000162676
Q9QXD8	Limd1	193222	Traf6	TNF receptor-associated factor 6	ENSMUSG00000027164
Q9QXD8	Limd1	40102	TRAF6	TNF receptor-associated factor 6	ENSG00000175104
P14733	Lmnb1	198306	Plcb2	phospholipase C, beta 2	ENSMUSG00000040061
P14733	Lmnb1	160992	Lmna	lamin A	ENSMUSG00000028063
Q3TYD6	Lmtk2	70546	PPP1R2	protein phosphatase 1, regulatory (inhibitor) subunit 2	ENSG00000184203
Q8CGK3	Lonp1	132183	Irs2	insulin receptor substrate 2	ENSMUSG00000038894
Q60664	Lrmp	198306	Plcb2	phospholipase C, beta 2	ENSMUSG00000040061
P19973	Lsp1	78880	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	ENSG00000204217
P19973	Lsp1	158574	Bmpr2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	ENSMUSG00000067336
P19973	Lsp1	197628	Sh3qlb1	SH3-domain GRB2-like B1 (endophilin)	ENSMUSG00000037062
P19973	Lsp1	173205	Pdzrn3	PDZ domain containing RING finger 3	ENSMUSG00000035357

P19973	Lsp1	271528	Mos	Moloney sarcoma oncogene	ENSMUSG00000078365
P19973	Lsp1	149050	Pmpca	peptidase (mitochondrial processing) alpha	ENSMUSG00000026926
P19973	Lsp1	177408	Twf1	twinfilin, actin-binding protein, homolog 1 (Drosophila)	ENSMUSG00000022451
P19973	Lsp1	198834	Ccdc89	coiled-coil domain containing 89	ENSMUSG00000044362
P19973	Lsp1	165484	Rabggta	Rab geranylgeranyl transferase, a subunit	ENSMUSG00000040472
P19973	Lsp1	196604	Foxc2	forkhead box C2	ENSMUSG00000046714
P19973	Lsp1	127807	Map3k8	mitogen-activated protein kinase kinase kinase 8	ENSMUSG00000024235
P19973	Lsp1	191539	Trpc1	transient receptor potential cation channel, subfamily C, member 1	ENSMUSG00000032839
P08071	Ltf	173713	Cebpa	CCAAT/enhancer binding protein (C/EBP), alpha	ENSMUSG00000034957
P08071	Ltf	162142	Cebpe	CCAAT/enhancer binding protein (C/EBP), epsilon	ENSMUSG00000052435
Q9CQ33	Lztr1	30667	BMPR1B	bone morphogenetic protein receptor, type IB	ENSG00000138696
Q91YU6	Lzts2	146254	Traf2	TNF receptor-associated factor 2	ENSMUSG00000026942
Q91YU6	Lzts2	53956	GSK3A	glycogen synthase kinase 3 alpha	ENSG00000105723
Q91YU6	Lzts2	18226	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit	ENSG00000132356
Q91YU6	Lzts2	51663	GSK3B	glycogen synthase kinase 3 beta	ENSG00000082701
Q9WVQ1	Magi2	139653	Dll1	delta-like 1 (Drosophila)	ENSMUSG00000014773
Q9WVQ1	Magi2	168425	Acvr2a	activin receptor IIA	ENSMUSG00000052155
Q9WVQ1	Magi2	71761	ACVR2A	activin A receptor, type IIA	ENSG00000121989
Q6T264	Maml1	149937	Phf2	PHD finger protein 2	ENSMUSG00000038025
Q6T264	Maml1	172404	Lass2	LAG1 homolog, ceramide synthase 2	ENSMUSG00000015714
Q6T264	Maml1	179104	Tle6	transducin-like enhancer of split 6, homolog of Drosophila	ENSMUSG00000034758
Q6T264	Maml1	156458	Ikbkg	inhibitor of kappaB kinase gamma	ENSMUSG00000004221
Q6T264	Maml1	172487	Hdac10	histone deacetylase 10	ENSMUSG00000062906
Q63932	Map2k2	193200	Nck1	non-catalytic region of tyrosine kinase adaptor protein 1	ENSMUSG00000032475
Q63932	Map2k2	156421	Rgs12	regulator of G-protein signaling 12	ENSMUSG00000029101
Q63932	Map2k2	44351	BRAF	v-raf murine sarcoma viral oncogene homolog B1	ENSG00000157764
Q63932	Map2k2	203299	Ksr1	kinase suppressor of ras 1	ENSMUSG00000018334
Q63932	Map2k2	176099	Map2k1	mitogen-activated protein kinase kinase 1	ENSMUSG00000004936
Q63932	Map2k2	209781	Mapk3	mitogen-activated protein kinase 3	ENSMUSG00000063065
Q63932	Map2k2	137672	Mapk1	mitogen-activated protein kinase 1	ENSMUSG00000063358
Q63932	Map2k2	209641	Csnk2a1	casein kinase 2, alpha 1 polypeptide	ENSMUSG00000074698
Q63932	Map2k2	179428	Raf1	v-raf-leukemia viral oncogene 1	ENSMUSG00000000441
Q63932	Map2k2	176847	Mknk1	MAP kinase-interacting serine/threonine kinase 1	ENSMUSG00000028708
Q63932	Map2k2	175279	Mknk2	MAP kinase-interacting serine/threonine kinase 2	ENSMUSG00000020190
Q63932	Map2k2	138657	Braf	Braf transforming gene	ENSMUSG00000002413
O09110	Map2k3	178161	Irak2	interleukin-1 receptor-associated kinase 2	ENSMUSG00000060477
O09110	Map2k3	30667	BMPR1B	bone morphogenetic protein receptor, type IB	ENSG00000138696
O09110	Map2k3	3127	SMAD2	SMAD family member 2	ENSG00000175387
O09110	Map2k3	28871	SMURF1	SMAD specific E3 ubiquitin protein ligase 1	ENSG00000198742
O09110	Map2k3	3485	SMAD4	SMAD family member 4	ENSG00000141646
O09110	Map2k3	18366	SMAD3	SMAD family member 3	ENSG00000166949
O09110	Map2k3	78488	TGFBR1	transforming growth factor, beta receptor 1	ENSG00000106799
Q60700	Map3k12	192264	Mapk8ip1	mitogen-activated protein kinase 8 interacting protein 1	ENSMUSG00000027223
Q61084	Map3k3	132298	Rela	v-rel reticuloendotheliosis viral oncogene homolog A (avian)	ENSMUSG00000024927
Q61084	Map3k3	140708	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells	ENSMUSG00000021025
Q61084	Map3k3	141021	Ikkbk	inhibitor of kappaB kinase beta	ENSMUSG00000031537
Q61084	Map3k3	169132	Chuk	conserved helix-loop-helix ubiquitous kinase	ENSMUSG00000025199
Q61084	Map3k3	267041	Psmc3	proteasome (prosome, macropain) 28 subunit, 3	ENSMUSG00000078652
Q61084	Map3k3	175216	Map2k5	mitogen-activated protein kinase kinase 5	ENSMUSG00000058444
Q61084	Map3k3	193222	Traf6	TNF receptor-associated factor 6	ENSMUSG00000027164
Q61084	Map3k3	10062	TRAF7	TNF receptor-associated factor 7	ENSG00000131653
Q61084	Map3k3	18592	MAP2K5	mitogen-activated protein kinase kinase 5	ENSG00000137764
Q61084	Map3k3	94374	MAP3K7	mitogen-activated protein kinase kinase kinase 7	ENSG00000135341
Q61084	Map3k3	132962	Map3k7	mitogen-activated protein kinase kinase kinase 7	ENSMUSG00000028284
Q61084	Map3k3	143710	Ripk1	receptor (TNFRSF)-interacting serine-threonine kinase 1	ENSMUSG00000021408
Q61084	Map3k3	26317	KRIT1	KRIT1, ankyrin repeat containing	ENSG00000001631
Q61084	Map3k3	15466	CCM2	cerebral cavernous malformation 2	ENSG00000136280
Q61084	Map3k3	168358	Sqstm1	sequestosome 1	ENSMUSG00000015837
Q61084	Map3k3	61811	SQSTM1	sequestosome 1	ENSG00000161011
O54992	Mapkapk5	23058	HSPB1	heat shock 27kDa protein 1	ENSG00000106211
O54992	Mapkapk5	191036	Trp53	transformation related protein 53	ENSMUSG00000059552
Q8VCF0	Mavs	173742	Tank	TRAF family member-associated Nf-kappa B activator	ENSMUSG00000064289
Q8VCF0	Mavs	137824	Eya4	eyes absent 4 homolog (Drosophila)	ENSMUSG00000010461
Q8VCF0	Mavs	172558	Traf3	TNF receptor-associated factor 3	ENSMUSG00000021277
Q8VCF0	Mavs	203813	Mfn2	mitofusin 2	ENSMUSG00000029020
Q8VCF0	Mavs	36010	TRADD	TNFRSF1A-associated via death domain	ENSG00000102871
Q8VCF0	Mavs	197203	Trafd1	TRAF type zinc finger domain containing 1	ENSMUSG00000042726
Q8VCF0	Mavs	135957	Ddx58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	ENSMUSG00000040296
Q8VCF0	Mavs	174129	Ifih1	interferon induced with helicase C domain 1	ENSMUSG00000026896
P56671	Maz	157336	Dcc	deleted in colorectal carcinoma	ENSMUSG00000060534
P49718	Mcm5	189829	Mcm6	minichromosome maintenance deficient 6 (MIS5 homolog)	ENSMUSG00000026355
P49718	Mcm5	167535	Mcm2	minichromosome maintenance deficient 2 mitotin (S. cerevisiae)	ENSMUSG00000002870
P49718	Mcm5	135657	Mcm4	minichromosome maintenance deficient 4 homolog (S. cerevisiae)	ENSMUSG00000022673
P49718	Mcm5	205861	Mcm7	minichromosome maintenance deficient 7 (S. cerevisiae)	ENSMUSG00000029730
P49718	Mcm5	136642	Mcm3	minichromosome maintenance deficient 3 (S. cerevisiae)	ENSMUSG00000041859
P49718	Mcm5	95078	RPA2	replication protein A2, 32kDa	ENSG00000117748
P49718	Mcm5	177097	Orc6	origin recognition complex, subunit 6	ENSMUSG00000031697
P49718	Mcm5	186454	Cdc7	cell division cycle 7 (S. cerevisiae)	ENSMUSG00000029283
P49718	Mcm5	156912	Orc2	origin recognition complex, subunit 2	ENSMUSG00000026037
Q0PMG2	Mdga1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q6PGF3	Med16	211539	Kat2a	K(lysine) acetyltransferase 2A	ENSMUSG00000020918
Q6PGF3	Med16	205939	Tada2a	transcriptional adaptor 2A	ENSMUSG00000018651
Q6PGF3	Med16	132631	Atxn7	ataxin 7	ENSMUSG00000021738
Q6PGF3	Med16	134374	Atxn7l1	ataxin 7-like 1	ENSMUSG00000020564
Q6PGF3	Med16	212566	Atxn7l3	ataxin 7-like 3	ENSMUSG00000059995
Q6PGF3	Med16	208472	Csrp2bp	cysteine and glycine-rich protein 2 binding protein	ENSMUSG00000027425
Q6PGF3	Med16	141131	Mbip	MAP3K12 binding inhibitory protein 1	ENSMUSG00000021028
Q6PGF3	Med16	210500	Med1	mediator complex subunit 1	ENSMUSG00000018160
Q6PGF3	Med16	253359	Med12	mediator of RNA polymerase II transcription, subunit 12	ENSMUSG00000079487

Q6PGF3	Med16	206853	Med13	mediator complex subunit 13	ENSMUSG00000034297
Q6PGF3	Med16	132282	Med14	mediator complex subunit 14	ENSMUSG000000064127
Q6PGF3	Med16	139947	Med15	mediator complex subunit 15	ENSMUSG00000012114
Q6PGF3	Med16	135069	Med17	mediator complex subunit 17	ENSMUSG00000031935
Q6PGF3	Med16	194008	Med18	mediator of RNA polymerase II transcription, subunit 18 H	ENSMUSG00000066042
Q6PGF3	Med16	198395	Med21	mediator complex subunit 21	ENSMUSG00000030291
Q6PGF3	Med16	139123	Med23	mediator complex subunit 23	ENSMUSG00000019984
Q6PGF3	Med16	210636	Med24	mediator complex subunit 24	ENSMUSG00000017210
Q6PGF3	Med16	168279	Med26	mediator complex subunit 26	ENSMUSG00000045248
Q6PGF3	Med16	153778	Med27	mediator complex subunit 27	ENSMUSG00000026799
Q6PGF3	Med16	162461	Med28	mediator of RNA polymerase II transcription, subunit 28 H	ENSMUSG00000015804
Q6PGF3	Med16	196398	Med31	mediator of RNA polymerase II transcription, subunit 31 H	ENSMUSG00000020801
Q6PGF3	Med16	180055	Med4	mediator of RNA polymerase II transcription, subunit 4 H	ENSMUSG00000022109
Q6PGF3	Med16	154516	Med6	mediator of RNA polymerase II transcription, subunit 6 H	ENSMUSG00000002679
Q6PGF3	Med16	181342	Med8	mediator of RNA polymerase II transcription, subunit 8 H	ENSMUSG00000006392
Q6PGF3	Med16	187799	Dr1	down-regulator of transcription 1	ENSMUSG00000029265
Q6PGF3	Med16	191826	Polr2a	polymerase (RNA) II (DNA directed) polypeptide A	ENSMUSG00000005198
Q6PGF3	Med16	174132	Polr2b	polymerase (RNA) II (DNA directed) polypeptide B	ENSMUSG00000029250
Q6PGF3	Med16	209697	Ccdc101	coiled-coil domain containing 101	ENSMUSG00000030714
Q6PGF3	Med16	209007	Spata20	spermatogenesis associated 20	ENSMUSG00000020867
Q6PGF3	Med16	207998	Sptlc3	serine palmitoyltransferase, long chain base subunit 3	ENSMUSG00000039092
Q6PGF3	Med16	203046	Tada1	transcriptional adaptor 1	ENSMUSG00000026563
Q6PGF3	Med16	176433	Tada3	transcriptional adaptor 3	ENSMUSG00000048930
Q6PGF3	Med16	204983	Taf10	TAF10 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG00000043866
Q6PGF3	Med16	193751	Taf12	TAF12 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG00000028899
Q6PGF3	Med16	199943	Taf5l	TAF5-like RNA polymerase II, p300/CBP-associated factor	ENSMUSG00000038697
Q6PGF3	Med16	140953	Taf6l	TAF6-like RNA polymerase II, p300/CBP-associated factor	ENSMUSG00000036800
Q6PGF3	Med16	178346	Taf9	TAF9 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG00000052293
Q6PGF3	Med16	208186	Trrap	transformation/transcription domain-associated protein	ENSMUSG00000045482
Q6PGF3	Med16	182297	Usp22	ubiquitin specific peptidase 22	ENSMUSG000000042506
Q6PGF3	Med16	151154	Wdr5	WD repeat domain 5	ENSMUSG00000026917
Q6PGF3	Med16	143426	Yeats2	YEATS domain containing 2	ENSMUSG00000041215
Q6PGF3	Med16	200277	Zzz3	zinc finger, ZZ domain containing 3	ENSMUSG00000039068
Q6PGF3	Med16	186515	Atxn7l2	ataxin 7-like 2	ENSMUSG00000048997
Q6PGF3	Med16	606312	Med20	mediator complex subunit 20	ENSMUSG000000092558
Q6PGF3	Med16	132298	Rela	v-rel reticuloendotheliosis viral oncogene homolog A (avian)	ENSMUSG00000024927
Q6PGF3	Med16	191036	Trp53	transformation related protein 53	ENSMUSG00000059552
Q6PGF3	Med16	207256	Mixl1	Mix1 homeobox-like 1 (Xenopus laevis)	ENSMUSG00000026497
Q6PGF3	Med16	163580	Ssbp4	single stranded DNA binding protein 4	ENSMUSG00000070003
Q6PGF3	Med16	166495	Nkd2	naked cuticle 2 homolog (Drosophila)	ENSMUSG00000021567
Q6PGF3	Med16	213181	Zfp64	zinc finger protein 64	ENSMUSG00000027551
Q6PGF3	Med16	159268	Esrrb	estrogen related receptor, beta	ENSMUSG00000021255
Q6PGF3	Med16	170763	Ssbp3	single-stranded DNA binding protein 3	ENSMUSG00000061887
Q6PGF3	Med16	206900	Trp73	transformation related protein 73	ENSMUSG00000029026
Q6PGF3	Med16	181192	Per2	period homolog 2 (Drosophila)	ENSMUSG000000055866
Q6PGF3	Med16	168206	Zbtb22	zinc finger and BTB domain containing 22	ENSMUSG00000051390
Q6PGF3	Med16	174161	Tcf3	transcription factor 3	ENSMUSG00000020167
Q6PGF3	Med16	144115	Ewsr1	Ewing sarcoma breakpoint region 1	ENSMUSG00000009079
Q6PGF3	Med16	171712	Pml	promyelocytic leukemia	ENSMUSG00000036986
Q6PGF3	Med16	204739	Tardbp	TAR DNA binding protein	ENSMUSG000000041459
Q6PGF3	Med16	157578	Rbfox2	RNA binding protein, fox-1 homolog (C. elegans) 2	ENSMUSG00000033565
Q6PGF3	Med16	192631	Alx4	aristaless-like homeobox 4	ENSMUSG00000040310
Q6PGF3	Med16	135792	Tnfrsf3	tumor necrosis factor, alpha-induced protein 3	ENSMUSG00000019850
Q6PGF3	Med16	213820	Gata5	GATA binding protein 5	ENSMUSG00000015627
Q9DB40	Med27	211539	Kat2a	K(lysine) acetyltransferase 2A	ENSMUSG00000020918
Q9DB40	Med27	205939	Tada2a	transcriptional adaptor 2A	ENSMUSG00000018651
Q9DB40	Med27	132631	Atxn7	ataxin 7	ENSMUSG00000021738
Q9DB40	Med27	134374	Atxn7l1	ataxin 7-like 1	ENSMUSG00000020564
Q9DB40	Med27	212566	Atxn7l3	ataxin 7-like 3	ENSMUSG00000059995
Q9DB40	Med27	208472	Csrp2bp	cysteine and glycine-rich protein 2 binding protein	ENSMUSG00000027425
Q9DB40	Med27	141131	Mbip	MAP3K12 binding inhibitory protein 1	ENSMUSG00000021028
Q9DB40	Med27	210500	Med1	mediator complex subunit 1	ENSMUSG00000018160
Q9DB40	Med27	253359	Med12	mediator of RNA polymerase II transcription, subunit 12 H	ENSMUSG00000079487
Q9DB40	Med27	206853	Med13	mediator complex subunit 13	ENSMUSG00000034297
Q9DB40	Med27	132282	Med14	mediator complex subunit 14	ENSMUSG000000064127
Q9DB40	Med27	139947	Med15	mediator complex subunit 15	ENSMUSG00000012114
Q9DB40	Med27	171451	Med16	mediator complex subunit 16	ENSMUSG00000013833
Q9DB40	Med27	135069	Med17	mediator complex subunit 17	ENSMUSG00000031935
Q9DB40	Med27	194008	Med18	mediator of RNA polymerase II transcription, subunit 18 H	ENSMUSG00000066042
Q9DB40	Med27	198395	Med21	mediator complex subunit 21	ENSMUSG00000030291
Q9DB40	Med27	139123	Med23	mediator complex subunit 23	ENSMUSG00000019984
Q9DB40	Med27	210636	Med24	mediator complex subunit 24	ENSMUSG00000017210
Q9DB40	Med27	168279	Med26	mediator complex subunit 26	ENSMUSG00000045248
Q9DB40	Med27	162461	Med28	mediator of RNA polymerase II transcription, subunit 28 H	ENSMUSG00000015804
Q9DB40	Med27	196398	Med31	mediator of RNA polymerase II transcription, subunit 31 H	ENSMUSG00000020801
Q9DB40	Med27	180055	Med4	mediator of RNA polymerase II transcription, subunit 4 H	ENSMUSG00000022109
Q9DB40	Med27	154516	Med6	mediator of RNA polymerase II transcription, subunit 6 H	ENSMUSG00000002679
Q9DB40	Med27	181342	Med8	mediator of RNA polymerase II transcription, subunit 8 H	ENSMUSG00000006392
Q9DB40	Med27	187799	Dr1	down-regulator of transcription 1	ENSMUSG00000029265
Q9DB40	Med27	191826	Polr2a	polymerase (RNA) II (DNA directed) polypeptide A	ENSMUSG00000005198
Q9DB40	Med27	174132	Polr2b	polymerase (RNA) II (DNA directed) polypeptide B	ENSMUSG00000029250
Q9DB40	Med27	209697	Ccdc101	coiled-coil domain containing 101	ENSMUSG00000030714
Q9DB40	Med27	209007	Spata20	spermatogenesis associated 20	ENSMUSG00000020867
Q9DB40	Med27	207998	Sptlc3	serine palmitoyltransferase, long chain base subunit 3	ENSMUSG00000039092
Q9DB40	Med27	203046	Tada1	transcriptional adaptor 1	ENSMUSG00000026563
Q9DB40	Med27	176433	Tada3	transcriptional adaptor 3	ENSMUSG00000048930
Q9DB40	Med27	204983	Taf10	TAF10 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG00000043866
Q9DB40	Med27	193751	Taf12	TAF12 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG00000028899
Q9DB40	Med27	199943	Taf5l	TAF5-like RNA polymerase II, p300/CBP-associated factor	ENSMUSG00000038697

Q9DB40	Med27	140953	Taf6l	TAF6-like RNA polymerase II, p300/CBP-associated factor	ENSMUSG00000003680
Q9DB40	Med27	178346	Taf9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-	ENSMUSG00000005293
Q9DB40	Med27	208186	Trrap	transformation/transcription domain-associated protein	ENSMUSG00000004582
Q9DB40	Med27	182297	Usp22	ubiquitin specific peptidase 22	ENSMUSG000000042506
Q9DB40	Med27	151154	Wdr5	WD repeat domain 5	ENSMUSG000000026917
Q9DB40	Med27	143426	Yeats2	YEATS domain containing 2	ENSMUSG000000041215
Q9DB40	Med27	200277	Zzz3	zinc finger, ZZ domain containing 3	ENSMUSG000000039068
Q9DB40	Med27	186515	Atxn7l2	ataxin 7-like 2	ENSMUSG000000048997
Q9DB40	Med27	606312	Med20	mediator complex subunit 20	ENSMUSG000000092558
Q9DB40	Med27	159268	Esrrb	estrogen related receptor, beta	ENSMUSG000000021255
Q9CQA5	Med4	211539	Kat2a	K(lysine) acetyltransferase 2A	ENSMUSG000000020918
Q9CQA5	Med4	205939	Tada2a	transcriptional adaptor 2A	ENSMUSG000000018651
Q9CQA5	Med4	132631	Atxn7	ataxin 7	ENSMUSG000000021738
Q9CQA5	Med4	134374	Atxn7l1	ataxin 7-like 1	ENSMUSG000000020564
Q9CQA5	Med4	212566	Atxn7l3	ataxin 7-like 3	ENSMUSG000000059995
Q9CQA5	Med4	208472	Csrp2bp	cysteine and glycine-rich protein 2 binding protein	ENSMUSG000000027425
Q9CQA5	Med4	141131	Mbip	MAP3K12 binding inhibitory protein 1	ENSMUSG000000021028
Q9CQA5	Med4	210500	Med1	mediator complex subunit 1	ENSMUSG000000018160
Q9CQA5	Med4	253359	Med12	mediator of RNA polymerase II transcription, subunit 12 H	ENSMUSG000000079487
Q9CQA5	Med4	206853	Med13	mediator complex subunit 13	ENSMUSG000000034297
Q9CQA5	Med4	132282	Med14	mediator complex subunit 14	ENSMUSG000000064127
Q9CQA5	Med4	139947	Med15	mediator complex subunit 15	ENSMUSG000000012114
Q9CQA5	Med4	171451	Med16	mediator complex subunit 16	ENSMUSG000000013833
Q9CQA5	Med4	135069	Med17	mediator complex subunit 17	ENSMUSG000000031935
Q9CQA5	Med4	194008	Med18	mediator of RNA polymerase II transcription, subunit 18 H	ENSMUSG000000066042
Q9CQA5	Med4	198395	Med21	mediator complex subunit 21	ENSMUSG000000030291
Q9CQA5	Med4	139123	Med23	mediator complex subunit 23	ENSMUSG000000019984
Q9CQA5	Med4	210636	Med24	mediator complex subunit 24	ENSMUSG000000017210
Q9CQA5	Med4	168279	Med26	mediator complex subunit 26	ENSMUSG000000045248
Q9CQA5	Med4	153778	Med27	mediator complex subunit 27	ENSMUSG000000026799
Q9CQA5	Med4	162461	Med28	mediator of RNA polymerase II transcription, subunit 28 H	ENSMUSG000000015804
Q9CQA5	Med4	196398	Med31	mediator of RNA polymerase II transcription, subunit 31 H	ENSMUSG000000020801
Q9CQA5	Med4	154516	Med6	mediator of RNA polymerase II transcription, subunit 6 H	ENSMUSG000000002679
Q9CQA5	Med4	181342	Med8	mediator of RNA polymerase II transcription, subunit 8 H	ENSMUSG000000006392
Q9CQA5	Med4	187799	Dr1	down-regulator of transcription 1	ENSMUSG000000029265
Q9CQA5	Med4	191826	Polr2a	polymerase (RNA) II (DNA directed) polypeptide A	ENSMUSG000000051198
Q9CQA5	Med4	174132	Polr2b	polymerase (RNA) II (DNA directed) polypeptide B	ENSMUSG000000029250
Q9CQA5	Med4	209697	Ccdc101	coiled-coil domain containing 101	ENSMUSG000000030714
Q9CQA5	Med4	209007	Spata20	spermatogenesis associated 20	ENSMUSG000000020867
Q9CQA5	Med4	207998	Sptlc3	serine palmitoyltransferase, long chain base subunit 3	ENSMUSG000000039092
Q9CQA5	Med4	203046	Tada1	transcriptional adaptor 1	ENSMUSG000000026563
Q9CQA5	Med4	176433	Tada3	transcriptional adaptor 3	ENSMUSG0000000048930
Q9CQA5	Med4	204983	Taf10	TAF10 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG0000000043866
Q9CQA5	Med4	193751	Taf12	TAF12 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG000000028899
Q9CQA5	Med4	199943	Taf5l	TAF5-like RNA polymerase II, p300/CBP-associated factor	ENSMUSG000000038697
Q9CQA5	Med4	140953	Taf6l	TAF6-like RNA polymerase II, p300/CBP-associated factor	ENSMUSG00000003680
Q9CQA5	Med4	178346	Taf9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-	ENSMUSG00000005293
Q9CQA5	Med4	208186	Trrap	transformation/transcription domain-associated protein	ENSMUSG00000004582
Q9CQA5	Med4	182297	Usp22	ubiquitin specific peptidase 22	ENSMUSG000000042506
Q9CQA5	Med4	151154	Wdr5	WD repeat domain 5	ENSMUSG000000026917
Q9CQA5	Med4	143426	Yeats2	YEATS domain containing 2	ENSMUSG000000041215
Q9CQA5	Med4	200277	Zzz3	zinc finger, ZZ domain containing 3	ENSMUSG000000039068
Q9CQA5	Med4	186515	Atxn7l2	ataxin 7-like 2	ENSMUSG000000048997
Q9CQA5	Med4	606312	Med20	mediator complex subunit 20	ENSMUSG000000092558
Q9CQA5	Med4	159268	Esrrb	estrogen related receptor, beta	ENSMUSG000000021255
Q60929	Mef2a	179042	Hdac7	histone deacetylase 7	ENSMUSG000000022475
Q60929	Mef2a	150644	Ckm	creatine kinase, muscle	ENSMUSG000000030399
Q60929	Mef2a	195149	Eno3	enolase 3, beta muscle	ENSMUSG000000060600
Q60929	Mef2a	159056	Smad2	MAD homolog 2 (Drosophila)	ENSMUSG000000024563
Q8CFN5	Mef2c	140748	Carm1	coactivator-associated arginine methyltransferase 1	ENSMUSG000000032185
Q8CFN5	Mef2c	136330	Ifrd1	interferon-related developmental regulator 1	ENSMUSG00000001627
Q8CFN5	Mef2c	212832	Ncoa3	nuclear receptor coactivator 3	ENSMUSG000000027678
Q8CFN5	Mef2c	133993	Ncoa2	nuclear receptor coactivator 2	ENSMUSG000000005886
Q60805	Mertk	78880	BMPR2	bone morphogenetic protein receptor, type II (serine/thre	ENSG000000204217
Q60805	Mertk	145653	Nbea	neurobeachin	ENSMUSG000000027799
Q60805	Mertk	180668	Ces1d	carboxylesterase 1D	ENSMUSG000000056973
Q60805	Mertk	127807	Map3k8	mitogen-activated protein kinase kinase kinase 8	ENSMUSG000000024235
Q60805	Mertk	149582	Msr1	macrophage scavenger receptor 1	ENSMUSG000000025044
Q60805	Mertk	195070	Plcg2	phospholipase C, gamma 2	ENSMUSG000000034330
Q60805	Mertk	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypep	ENSMUSG000000041417
Q60805	Mertk	133881	Pik3cg	phosphoinositide-3-kinase, catalytic, gamma polypeptide	ENSMUSG000000020573
Q60805	Mertk	158574	Bmpr2	bone morphogenic protein receptor, type II (serine/thre	ENSMUSG000000067336
P16056	Met	171147	Gab1	growth factor receptor bound protein 2-associated protein	ENSMUSG000000031714
P16056	Met	24150	HGF	hepatocyte growth factor (hepapoietin A; scatter factor)	ENSG00000019991
P16056	Met	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG000000059923
P16056	Met	32481	PLXNB1	plexin B1	ENSG000000164050
Q80U63	Mfn2	207066	Mavs	mitochondrial antiviral signaling protein	ENSMUSG000000037523
Q80U63	Mfn2	136722	Mfn1	mitofusin 1	ENSMUSG000000027668
Q8VDP3	Mical1	159635	Stk38	serine/threonine kinase 38	ENSMUSG000000024006
Q8VDP3	Mical1	77184	STK4	serine/threonine kinase 4	ENSG000000101109
Q8VDP3	Mical1	131376	Flnb	filamin, beta	ENSMUSG000000025278
Q8VDP3	Mical1	210090	39691	septin 1	ENSMUSG000000000486
Q8K436	Mkl1	87849	SRF	serum response factor (c-fos serum response element-bi	ENSG000000112658
Q8K436	Mkl1	166617	Lhx2	LIM homeobox protein 2	ENSMUSG000000000247
Q9QWV4	Mif1	148477	Nrbp1	nuclear receptor binding protein 1	ENSMUSG000000029148
Q9QWV4	Mif1	135418	Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG000000022285
Q9QWV4	Mif1	176947	Ncl	nucleolin	ENSMUSG000000026234
Q9QWV4	Mif1	201111	Cacybp	calcylin binding protein	ENSMUSG000000014226
Q9QWV4	Mif1	138056	Eif3q	eukaryotic translation initiation factor 3, subunit G	ENSMUSG000000070319

Q9QWV4	Mif1	207851	Dynll2	dynein light chain LC8-type 2	ENSMUSG00000020483
A2AM29	Mltf3	131964	Bcor	BCL6 interacting corepressor	ENSMUSG00000040363
A2AM29	Mltf3	148014	Hoxa9	homeobox A9	ENSMUSG00000038227
Q91V27	Mlph	184264	Rab27a	RAB27A, member RAS oncogene family	ENSMUSG00000032202
Q91V27	Mlph	164008	Rab3a	RAB3A, member RAS oncogene family	ENSMUSG00000031840
Q91V27	Mlph	156998	Rab27b	RAB27b, member RAS oncogene family	ENSMUSG00000024511
Q2VPU4	Mlxip	211822	Mlx	MAX-like protein X	ENSMUSG00000017801
Q9D071	Mms19	189502	Nfe2	nuclear factor, erythroid derived 2	ENSMUSG00000058794
Q9D071	Mms19	144115	Ewsr1	Ewing sarcoma breakpoint region 1	ENSMUSG00000009079
Q9D071	Mms19	161506	Maff	v-maf musculoaponeurotic fibrosarcoma oncogene family,	ENSMUSG000000042622
Q8K396	Mnd1	198884	Rad51	RAD51 homolog (S. cerevisiae)	ENSMUSG00000027323
Q8K396	Mnd1	211834	Psmc3ip	proteasome (prosome, macropain) 26S subunit, ATPase 3	ENSMUSG00000019303
Q61830	Mrc1	171427	Btk	Bruton agammaglobulinemia tyrosine kinase	ENSMUSG00000031264
Q61830	Mrc1	256772	Clec7a	C-type lectin domain family 7, member a	ENSMUSG00000079293
Q61830	Mrc1	206881	Siglec1	sialic acid binding Ig-like lectin 1, sialoadhesin	ENSMUSG00000027322
Q61830	Mrc1	195821	Ptpnc	protein tyrosine phosphatase, receptor type, C	ENSMUSG00000026395
P43247	Msh2	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380
P43247	Msh2	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG00000024406
O08689	Mstn	59338	WFIKKN2	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin	ENSG00000173714
O08689	Mstn	7799	WFIKKN1	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin	ENSG00000127578
O08689	Mstn	208814	Wfikkn2	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin	ENSMUSG00000044177
Q8BJ58	Mtbp	191852	Mdm2	transformed mouse 3T3 cell double minute 2	ENSMUSG00000020184
Q9JLN9	Mtor	214724	Rptor	regulatory associated protein of MTOR, complex 1	ENSMUSG00000025583
Q9JLN9	Mtor	128168	Rictor	RPTOR independent companion of MTOR, complex 2	ENSMUSG00000050310
Q9JLN9	Mtor	162945	Mapkap1	mitogen-activated protein kinase associated protein 1	ENSMUSG00000038696
Q9JLN9	Mtor	146829	Mlst8	MTOR associated protein, LST8 homolog (S. cerevisiae)	ENSMUSG00000024142
Q9JLN9	Mtor	96775	SGK1	serum/glucocorticoid regulated kinase 1	ENSG00000118515
Q9JLN9	Mtor	169606	Prr5	proline rich 5 (renal)	ENSMUSG00000036106
Q9JLN9	Mtor	22709	AKT1	v-akt murine thymoma viral oncogene homolog 1	ENSG00000142208
Q9JLN9	Mtor	147651	Tsc2	tuberous sclerosis 2	ENSMUSG00000002496
Q9JLN9	Mtor	150565	Telo2	TEL2, telomere maintenance 2, homolog (S. cerevisiae)	ENSMUSG00000024170
Q9JLN9	Mtor	171712	Pml	promyelocytic leukemia	ENSMUSG00000036986
Q9JLN9	Mtor	173589	Irs1	insulin receptor substrate 1	ENSMUSG00000055980
Q9JLN9	Mtor	170894	Yy1	YY1 transcription factor	ENSMUSG00000021264
Q9JLN9	Mtor	174623	Akt1	thymoma viral proto-oncogene 1	ENSMUSG00000001729
Q9JLN9	Mtor	206007	Eif3f	eukaryotic translation initiation factor 3, subunit F	ENSMUSG00000031029
Q9JLN9	Mtor	51270	AKT2	v-akt murine thymoma viral oncogene homolog 2	ENSG00000105221
Q9JLN9	Mtor	155976	Eif4ebp2	eukaryotic translation initiation factor 4E binding protein 2	ENSMUSG00000020091
Q9JLN9	Mtor	179873	Akt1s1	AKT1 substrate 1 (proline-rich)	ENSMUSG00000011096
Q9JLN9	Mtor	171820	RPTOR	regulatory associated protein of MTOR, complex 1	ENSG00000141564
Q9JLN9	Mtor	17284	EIF4EBP1	eukaryotic translation initiation factor 4E binding protein 1	ENSG00000187840
Q9JLN9	Mtor	39495	FKBP1A	FK506 binding protein 1A, 12kDa	ENSG00000088832
Q9JLN9	Mtor	165511	Atm	ataxia telangiectasia mutated homolog (human)	ENSMUSG00000034218
P09922	Mx2	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q9WVP9	Mx2	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
P50538	Mxd1	168505	Sin3b	transcriptional regulator, SIN3B (yeast)	ENSMUSG00000031622
P50538	Mxd1	169269	Sin3a	transcriptional regulator, SIN3A (yeast)	ENSMUSG00000042557
P50538	Mxd1	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
P50538	Mxd1	151490	Max	Max protein	ENSMUSG00000059436
P50538	Mxd1	176737	Smc3	structural maintenance of chromosomes 3	ENSMUSG00000024974
P48972	Mybl2	61868	CCND1	cyclin D1	ENSG00000110092
P48972	Mybl2	24529	CCNA1	cyclin A1	ENSG00000133101
P48972	Mybl2	39545	CDK2	cyclin-dependent kinase 2	ENSG00000123374
P48972	Mybl2	164181	Ikzf2	IKAROS family zinc finger 2	ENSMUSG00000025997
P48972	Mybl2	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380
P48972	Mybl2	158773	AW146020	expressed sequence AW146020	ENSMUSG00000035125
P48972	Mybl2	212973	Ccnd1	cyclin D1	ENSMUSG00000070348
Q6URW6	Myh14	144904	Grin1	glutamate receptor, ionotropic, NMDA1 (zeta 1)	ENSMUSG00000026959
Q8K314	Myrip	184264	Rab27a	RAB27A, member RAS oncogene family	ENSMUSG00000032202
Q6A037	N4bp1	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q77S28	Nacc1	185735	Nanog	Nanog homeobox	ENSMUSG00000012396
Q77S28	Nacc1	169383	Rif1	Rap1 interacting factor 1 homolog (yeast)	ENSMUSG00000036202
Q77S28	Nacc1	213166	Sall4	sal-like 4 (Drosophila)	ENSMUSG00000027547
Q77S28	Nacc1	151499	Zfp42	zinc finger protein 42	ENSMUSG00000051176
Q77S28	Nacc1	201862	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin 1	ENSMUSG00000032481
Q77S28	Nacc1	170953	Arid3b	AT rich interactive domain 3B (BRIGHT-like)	ENSMUSG00000004661
Q77S28	Nacc1	166800	Gatad2b	GATA zinc finger domain containing 2B	ENSMUSG00000042390
Q77S28	Nacc1	196765	Mybbp1a	MYB binding protein (P160) 1a	ENSMUSG00000040463
Q77S28	Nacc1	195728	Zfp281	zinc finger protein 281	ENSMUSG00000041483
Q77S28	Nacc1	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG00000024406
Q77S28	Nacc1	171738	Wdr18	WD repeat domain 18	ENSMUSG00000035754
Q77S28	Nacc1	179324	Sall1	sal-like 1 (Drosophila)	ENSMUSG00000031665
Q77S28	Nacc1	147801	Nacc2	nucleus accumbens associated 2, BEN and BTB (POZ) domain containing 2	ENSMUSG00000026932
Q77S28	Nacc1	171662	Arid3a	AT rich interactive domain 3A (BRIGHT-like)	ENSMUSG00000019564
Q99MD9	Nasp	136907	Hist1h1c	histone cluster 1, H1c	ENSMUSG00000036181
Q99MD9	Nasp	134402	Hist1h1b	histone cluster 1, H1b	ENSMUSG00000058773
Q99MD9	Nasp	136238	Hist1h1d	histone cluster 1, H1d	ENSMUSG00000052565
Q99MD9	Nasp	136546	Hist1h1e	histone cluster 1, H1e	ENSMUSG00000051627
Q99MD9	Nasp	5152	AIRE	autoimmune regulator	ENSG00000160224
Q99MD9	Nasp	160472	Cdk1	cyclin-dependent kinase 1	ENSMUSG00000019942
Q99MD9	Nasp	150618	Hspa2	heat shock protein 2	ENSMUSG00000059970
Q99MD9	Nasp	137249	Hist1h1a	histone cluster 1, H1a	ENSMUSG00000049539
P97432	Nbr1	195070	Plcg2	phospholipase C, gamma 2	ENSMUSG00000034330
P97432	Nbr1	42625	GABARAPL2	GABA(A) receptor-associated protein-like 2	ENSG00000034713
P97432	Nbr1	45638	MAP1LC3B	microtubule-associated protein 1 light chain 3 beta	ENSG00000140941
P97432	Nbr1	152428	Spred2	sprouty-related, EVH1 domain containing 2	ENSMUSG00000045671
P97432	Nbr1	158983	Mapk14	mitogen-activated protein kinase 14	ENSMUSG00000053436
P97432	Nbr1	168358	Sqstm1	sequestosome 1	ENSMUSG00000015837
P97432	Nbr1	64029	UBC	ubiquitin C	ENSG00000150991

P97432	Nbr1	51663	GSK3B	glycogen synthase kinase 3 beta	ENSG00000082701
P97432	Nbr1	53956	GSK3A	glycogen synthase kinase 3 alpha	ENSMUG00000105723
P97432	Nbr1	163320	Z810422J05RIK	RIKEN cDNA 2810422J05 gene	ENSMUG00000055553
P13595	Ncam1	209151	Cst3	cystatin C	ENSMUG00000027447
P13595	Ncam1	185288	Sparcl1	SPARC-like 1	ENSMUG00000029309
P13595	Ncam1	168935	Aplp1	amyloid beta (A4) precursor-like protein 1	ENSMUG00000006651
P13595	Ncam1	163151	Hspa5	heat shock protein 5	ENSMUG00000026864
P13595	Ncam1	155394	Thy1	thymus cell antigen 1, theta	ENSMUG00000032011
P13595	Ncam1	207129	Spon1	spondin 1, (F-spondin) extracellular matrix protein	ENSMUG00000038156
P13595	Ncam1	146661	Aplp2	amyloid beta (A4) precursor-like protein 2	ENSMUG00000031996
P13595	Ncam1	211078	Oat	ornithine aminotransferase	ENSMUG00000030934
P13595	Ncam1	151663	Mat1a	methionine adenosyltransferase I, alpha	ENSMUG00000037798
P13595	Ncam1	172954	App	amyloid beta (A4) precursor protein	ENSMUG00000022892
P13595	Ncam1	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUG00000020571
P13595	Ncam1	131138	Calu	calumenin	ENSMUG00000029767
P13595	Ncam1	152814	Ppp1r2	protein phosphatase 1, regulatory (inhibitor) subunit 2	ENSMUG00000047714
P13595	Ncam1	196143	Epb4.113	erythrocyte protein band 4.1-like 3	ENSMUG00000024044
P13595	Ncam1	178669	Ppib	peptidylprolyl isomerase B	ENSMUG00000032383
P13595	Ncam1	174959	Calr	calreticulin	ENSMUG0000003814
P13595	Ncam1	182078	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	ENSMUG00000020048
P13595	Ncam1	168591	Canx	calnexin	ENSMUG00000020368
P13595	Ncam1	176351	Cntn1	contactin 1	ENSMUG00000055022
P13595	Ncam1	168462	Rcn2	reticulocalbin 2	ENSMUG00000032320
P13595	Ncam1	205238	Cistn1	calsyntenin 1	ENSMUG00000039953
P13595	Ncam1	182141	Gabbr1	gamma-aminobutyric acid (GABA) B receptor, 1	ENSMUG00000024462
P13595	Ncam1	157064	Hyou1	hypoxia up-regulated 1	ENSMUG00000032115
P13595	Ncam1	171290	Hspa4	heat shock protein 4	ENSMUG00000020361
P13595	Ncam1	175327	Srgap3	SLIT-ROBO Rho GTPase activating protein 3	ENSMUG00000030257
P13595	Ncam1	141546	Ganab	alpha glucosidase 2 alpha neutral subunit	ENSMUG00000071650
P13595	Ncam1	192274	Nfasc	neurofascin	ENSMUG00000026442
P13595	Ncam1	178513	Atp2b2	ATPase, Ca++ transporting, plasma membrane 2	ENSMUG00000030302
P13595	Ncam1	146362	Erp44	endoplasmic reticulum protein 44	ENSMUG00000028343
P13595	Ncam1	168858	Lingo1	leucine rich repeat and Iq domain containing 1	ENSMUG00000049556
P13595	Ncam1	186875	Cistn3	calsyntenin 3	ENSMUG00000008153
P13595	Ncam1	260830	Prnp	prion protein	ENSMUG00000079037
P13595	Ncam1	158252	Cpe	carboxypeptidase E	ENSMUG00000037852
P13595	Ncam1	192631	Alx4	aristaless-like homeobox 4	ENSMUG00000040310
P13595	Ncam1	194292	Lef1	lymphoid enhancer binding factor 1	ENSMUG00000027985
P13595	Ncam1	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUG00000021047
Q9ESJ4	Nckip5d	68262	GRB2	growth factor receptor-bound protein 2	ENSG00000177885
Q9ESJ4	Nckip5d	38956	WASL	Wiskott-Aldrich syndrome-like	ENSG00000106299
Q9ESJ4	Nckip5d	178542	Prdx1	peroxiredoxin 1	ENSMUG00000028691
Q9ESJ4	Nckip5d	138913	Crkl	v-crk sarcoma virus CT10 oncogene homolog (avian)-like	ENSMUG00000006134
Q9ESJ4	Nckip5d	155162	Hspd1	heat shock protein 1 (chaperonin)	ENSMUG00000025980
Q9ESJ4	Nckip5d	196509	Irf8	interferon regulatory factor 8	ENSMUG00000041515
P70365	Ncoa1	211637	Stat3	signal transducer and activator of transcription 3	ENSMUG00000004040
P70365	Ncoa1	173696	Cebpg	CCAAT/enhancer binding protein (C/EBP), gamma	ENSMUG000000056216
P70365	Ncoa1	51560	NR112	nuclear receptor subfamily 1, group I, member 2	ENSG00000144852
P70365	Ncoa1	164782	Ep300	E1A binding protein p300	ENSMUG00000055024
P70365	Ncoa1	140748	Carm1	coactivator-associated arginine methyltransferase 1	ENSMUG00000032185
P70365	Ncoa1	179227	Vdr	vitamin D receptor	ENSMUG00000022479
P70365	Ncoa1	210842	Rara	retinoic acid receptor, alpha	ENSMUG00000037992
P70365	Ncoa1	204130	Nr113	nuclear receptor subfamily 1, group I, member 3	ENSMUG00000005677
O09000	Ncoa3	195602	Stat6	signal transducer and activator of transcription 6	ENSMUG00000002147
O09000	Ncoa3	164782	Ep300	E1A binding protein p300	ENSMUG00000055024
O09000	Ncoa3	173162	Sufu	suppressor of fused homolog (Drosophila)	ENSMUG00000025231
O09000	Ncoa3	42577	GLI1	GLI family zinc finger 1	ENSG00000111087
O09000	Ncoa3	158045	Zfp219	zinc finger protein 219	ENSMUG00000049295
O09000	Ncoa3	154384	Lgals3	lectin, galactose binding, soluble 3	ENSMUG00000050335
O09000	Ncoa3	175037	Pias1	protein inhibitor of activated STAT 1	ENSMUG00000032405
O09000	Ncoa3	105630	NR5A2	nuclear receptor subfamily 5, group A, member 2	ENSG00000116833
O09000	Ncoa3	156458	Ikbkg	inhibitor of kappaB kinase gamma	ENSMUG00000004221
O09000	Ncoa3	139644	Trps1	trichorhinophalangeal syndrome 1 (human)	ENSMUG00000038679
O09000	Ncoa3	164343	Sirt2	sirtuin 2 (silent mating type information regulation 2, human)	ENSMUG00000015149
O09000	Ncoa3	179104	Tle6	transducin-like enhancer of split 6, homolog of Drosophila	ENSMUG00000034758
O09000	Ncoa3	206728	Tbx4	T-box 4	ENSMUG00000000094
O09000	Ncoa3	158773	AW146020	expressed sequence AW146020	ENSMUG00000035125
O09000	Ncoa3	159925	Nr112	nuclear receptor subfamily 1, group I, member 2	ENSMUG00000022809
O09000	Ncoa3	172404	Lass2	LAG1 homolog, ceramide synthase 2	ENSMUG00000015714
O09000	Ncoa3	136962	Prdx5	peroxiredoxin 5	ENSMUG00000024953
O09000	Ncoa3	135097	Rnf19a	ring finger protein 19A	ENSMUG00000022280
O09000	Ncoa3	129513	Crebbp	CREB binding protein	ENSMUG00000022521
O09000	Ncoa3	208527	Polr3f	polymerase (RNA) III (DNA directed) polypeptide F	ENSMUG00000027427
O09000	Ncoa3	130251	Hnf4g	hepatocyte nuclear factor 4, gamma	ENSMUG00000017688
O09000	Ncoa3	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, human)	ENSMUG00000020063
O09000	Ncoa3	187635	Ptpn6	protein tyrosine phosphatase, non-receptor type 6	ENSMUG00000004266
O09000	Ncoa3	174783	Ehmt2	euchromatic histone lysine N-methyltransferase 2	ENSMUG00000013787
O09000	Ncoa3	140748	Carm1	coactivator-associated arginine methyltransferase 1	ENSMUG00000032185
O09000	Ncoa3	151644	Rorb	RAR-related orphan receptor beta	ENSMUG00000036192
O09000	Ncoa3	181454	Ercc8	excision repair cross-complementing rodent repair deficiency	ENSMUG00000021694
O09000	Ncoa3	159268	Esrrb	estrogen related receptor, beta	ENSMUG00000021255
O09000	Ncoa3	189776	Per1	period homolog 1 (Drosophila)	ENSMUG00000020893
O09000	Ncoa3	170220	Mef2c	myocyte enhancer factor 2C	ENSMUG00000005583
O09000	Ncoa3	159505	Gtf2e1	general transcription factor II E, polypeptide 1 (alpha subunit)	ENSMUG00000022828
O09000	Ncoa3	172468	Setdb1	SET domain, bifurcated 1	ENSMUG000000015697
O09000	Ncoa3	168943	Sap18	Sin3-associated polypeptide 18	ENSMUG00000021963
O09000	Ncoa3	204435	Gm5900	predicted pseudogene 5900	ENSMUG00000059039
O09000	Ncoa3	201492	Prdx6	peroxiredoxin 6	ENSMUG00000026701
O09000	Ncoa3	189480	Hnrnpa1	heterogeneous nuclear ribonucleoprotein A1	ENSMUG00000046434

Q9CZA6	Nde1	189670	2310047M10R	RIKEN cDNA 2310047M10 gene	ENSMUSG00000045176
Q9CZA6	Nde1	51267	TUBG1	tubulin, gamma 1	ENSG00000131462
Q9CZA6	Nde1	16417	PAFAH1B1	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1	ENSG00000007168
Q9CZA6	Nde1	146693	Sla	src-like adaptor	ENSMUSG00000022372
Q9CZA6	Nde1	137484	Tcp1	t-complex protein 1	ENSMUSG00000068039
Q9CZA6	Nde1	164991	Pcnt	pericentrin (kendrin)	ENSMUSG00000001151
Q9CZA6	Nde1	207728	6330503K22Rik	RIKEN cDNA 6330503K22 gene	ENSMUSG00000033904
Q9CZA6	Nde1	193625	Dynll1	dynein light chain LC8-type 1	ENSMUSG00000009013
Q9CZA6	Nde1	198862	Pafah1b1	platelet-activating factor acetylhydrolase, isoform 1b, subunit 1	ENSMUSG00000020745
Q9CZA6	Nde1	27907	DYNC11I	dynein, cytoplasmic 1, intermediate chain 1	ENSG00000158560
Q9CZA6	Nde1	95078	RPA2	replication protein A2, 32kDa	ENSG00000117748
Q9CZA6	Nde1	16229	NDE1	nudE nuclear distribution gene E homolog 1 (A. nidulans)	ENSG00000072864
Q9CZA6	Nde1	29031	NDEL1	nudE nuclear distribution gene E homolog (A. nidulans)-like 1	ENSG00000166579
Q9CZA6	Nde1	80845	FAM190B	family with sequence similarity 190, member B	ENSG00000107771
Q9CZA6	Nde1	98013	SYNE1	spectrin repeat containing, nuclear envelope 1	ENSG00000131018
Q9CZA6	Nde1	71136	DIXDC1	DIX domain containing 1	ENSG00000150764
Q9DC70	Ndufs7	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor protein)	ENSG00000145335
Q9D6J4	Necab3	191187	Apba2	amyloid beta (A4) precursor protein-binding, family A, member 2	ENSMUSG00000030519
Q8CF10	Nedd4l	141726	Ndfip1	Nedd4 family interacting protein 1	ENSMUSG00000024425
Q8CF10	Nedd4l	211991	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000018326
Q8CF10	Nedd4l	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
Q8CF10	Nedd4l	137283	Sgk1	serum/glucocorticoid regulated kinase 1	ENSMUSG00000019970
Q8CF10	Nedd4l	189817	Scnn1a	sodium channel, nonvoltage-gated 1 alpha	ENSMUSG00000030340
O35177	Nedd9	166211	Gnb2l1	guanine nucleotide binding protein (G protein), beta polypeptide 2	ENSMUSG00000020372
O35177	Nedd9	201810	Myo18a	myosin XVIIIa	ENSMUSG00000000631
O35177	Nedd9	200571	Crk	v-crk sarcoma virus CT10 oncogene homolog (avian)	ENSMUSG00000017776
P97798	Neo1	192737	Rgma	RGM domain family, member A	ENSMUSG00000070509
P97798	Neo1	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUSG00000021047
P97798	Neo1	148322	Ptk2	PTK2 protein tyrosine kinase 2	ENSMUSG00000022607
Q810U3	Nfasc	209151	Cst3	cystatin C	ENSMUSG000000027447
Q810U3	Nfasc	185288	Sparcl1	SPARC-like 1	ENSMUSG00000029309
Q810U3	Nfasc	168935	Aplp1	amyloid beta (A4) precursor-like protein 1	ENSMUSG00000006651
Q810U3	Nfasc	163151	Hspa5	heat shock protein 5	ENSMUSG00000026864
Q810U3	Nfasc	155394	Thy1	thymus cell antigen 1, theta	ENSMUSG00000032011
Q810U3	Nfasc	207129	Spon1	spondin 1, (f-spondin) extracellular matrix protein	ENSMUSG000000038156
Q810U3	Nfasc	146661	Aplp2	amyloid beta (A4) precursor-like protein 2	ENSMUSG00000031996
Q810U3	Nfasc	211078	Oat	ornithine aminotransferase	ENSMUSG00000030934
Q810U3	Nfasc	151663	Mat1a	methionine adenosyltransferase I, alpha	ENSMUSG00000037798
Q810U3	Nfasc	172954	App	amyloid beta (A4) precursor protein	ENSMUSG00000022892
Q810U3	Nfasc	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
Q810U3	Nfasc	131138	Calu	calumenin	ENSMUSG00000029767
Q810U3	Nfasc	152814	Ppp1r2	protein phosphatase 1, regulatory (inhibitor) subunit 2	ENSMUSG00000047714
Q810U3	Nfasc	196143	Epb4.1l3	erythrocyte protein band 4.1-like 3	ENSMUSG00000024044
Q810U3	Nfasc	178669	Ppib	peptidylprolyl isomerase B	ENSMUSG00000032383
Q810U3	Nfasc	174959	Calr	calreticulin	ENSMUSG00000003814
Q810U3	Nfasc	182078	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	ENSMUSG00000020048
Q810U3	Nfasc	168591	Canx	calnexin	ENSMUSG00000020368
Q810U3	Nfasc	176351	Cntn1	contactin 1	ENSMUSG000000055022
Q810U3	Nfasc	163105	Ncam1	neural cell adhesion molecule 1	ENSMUSG00000039542
Q810U3	Nfasc	168462	Rcn2	reticulocalbin 2	ENSMUSG000000032320
Q810U3	Nfasc	205238	Clstn1	calsyntenin 1	ENSMUSG00000039953
Q810U3	Nfasc	182141	Gabbr1	gamma-aminobutyric acid (GABA) B receptor, 1	ENSMUSG00000024462
Q810U3	Nfasc	157064	Hyou1	hypoxia up-regulated 1	ENSMUSG00000032115
Q810U3	Nfasc	171290	Hspa4	heat shock protein 4	ENSMUSG00000020361
Q810U3	Nfasc	175327	Srqap3	SLIT-ROBO Rho GTPase activating protein 3	ENSMUSG00000030257
Q810U3	Nfasc	141546	Ganab	alpha glucosidase 2 alpha neutral subunit	ENSMUSG00000071650
Q810U3	Nfasc	178513	Atp2b2	ATPase, Ca++ transporting, plasma membrane 2	ENSMUSG00000030302
Q810U3	Nfasc	146362	Erp44	endoplasmic reticulum protein 44	ENSMUSG00000028343
Q810U3	Nfasc	168858	Lingo1	leucine rich repeat and Iq domain containing 1	ENSMUSG00000049556
Q810U3	Nfasc	186875	Clstn3	calsyntenin 3	ENSMUSG000000008153
Q810U3	Nfasc	260830	Prnp	prion protein	ENSMUSG00000079037
Q810U3	Nfasc	158252	Cpe	carboxypeptidase E	ENSMUSG00000037852
Q810U3	Nfasc	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q9WTK5	Nfkb2	132298	Rela	v-rel reticuloendotheliosis viral oncogene homolog A (avian)	ENSMUSG00000024927
Q9WTK5	Nfkb2	190301	Bcl2a1a	B-cell leukemia/lymphoma 2 related protein A1a	ENSMUSG000000074147
Q9WTK5	Nfkb2	183749	Il17ra	interleukin 17 receptor A	ENSMUSG00000002897
Q9WTK5	Nfkb2	151419	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related protein 1	ENSMUSG00000002983
Q9WTK5	Nfkb2	195445	Nfkb1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	ENSMUSG00000028163
Q9WTK5	Nfkb2	181227	Cxcl13	chemokine (C-X-C motif) ligand 13	ENSMUSG00000023078
Q9WTK5	Nfkb2	144556	Myc	myelocytomatosis oncogene	ENSMUSG000000022346
Q9WTK5	Nfkb2	155648	Rel	reticuloendotheliosis oncogene	ENSMUSG00000020275
Q9WTK5	Nfkb2	208712	Atf3	activating transcription factor 3	ENSMUSG00000026628
Q9WTK5	Nfkb2	185673	Bcl2	B-cell leukemia/lymphoma 2	ENSMUSG00000057329
Q9WTK5	Nfkb2	157258	Il9	interleukin 9	ENSMUSG00000021538
Q9WTK5	Nfkb2	209389	Cr2	complement receptor 2	ENSMUSG000000026616
Q9WTK5	Nfkb2	130417	Fcer2a	Fc receptor, IgE, low affinity II, alpha polypeptide	ENSMUSG00000005540
Q9WTK5	Nfkb2	158495	Sumo1	SMT3 suppressor of mif two 3 homolog 1 (yeast)	ENSMUSG00000026021
Q9WTK5	Nfkb2	165943	Nfkbiz	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2	ENSMUSG00000035356
Q8VE28	Nkd2	207981	Dvl1	dishevelled, dsh homolog 1 (Drosophila)	ENSMUSG00000029071
Q8VE28	Nkd2	144321	Dvl3	dishevelled 3, dsh homolog (Drosophila)	ENSMUSG00000003233
Q8VE28	Nkd2	193127	Dvl2	dishevelled 2, dsh homolog (Drosophila)	ENSMUSG00000020888
Q8VE28	Nkd2	213588	Smurf2	SMAD specific E3 ubiquitin protein ligase 2	ENSMUSG00000018363
Q8VE28	Nkd2	171451	Med16	mediator complex subunit 16	ENSMUSG00000013833
Q8VE28	Nkd2	195662	Zscan2	zinc finger and SCAN domain containing 2	ENSMUSG00000038797
Q8VE28	Nkd2	148311	Zfp513	zinc finger protein 513	ENSMUSG000000043059
Q8VE28	Nkd2	144115	Ewsr1	Ewing sarcoma breakpoint region 1	ENSMUSG00000009079
P50220	Nkx2-1	209333	Vsx1	visual system homeobox 1 homolog (zebrafish)	ENSMUSG00000033080
P50220	Nkx2-1	148014	Hoxa9	homeobox A9	ENSMUSG00000038227
P50220	Nkx2-1	165392	Nr2f6	nuclear receptor subfamily 2, group F, member 6	ENSMUSG00000002393

P50220	Nkx2-1	605656	Gsx2	GS homeobox 2	ENSMUSG00000092446
P50220	Nkx2-1	207256	Mixl1	Mixl1 homeobox-like 1 (<i>Xenopus laevis</i>)	ENSMUSG00000026497
P50220	Nkx2-1	141000	Smarca4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily A member 4	ENSMUSG000000032187
P50220	Nkx2-1	189282	Hoxc12	homeobox C12	ENSMUSG00000050328
P50220	Nkx2-1	181327	Emx2	empty spiracles homolog 2 (<i>Drosophila</i>)	ENSMUSG000000043969
P50220	Nkx2-1	128584	Gata6	GATA binding protein 6	ENSMUSG00000005836
P50220	Nkx2-1	130251	Hnf4g	hepatocyte nuclear factor 4, gamma	ENSMUSG00000017688
P50220	Nkx2-1	142554	Pax8	paired box gene 8	ENSMUSG00000026976
Q8K3Z0	Nod2	148496	Card9	caspace recruitment domain family, member 9	ENSMUSG00000026928
Q8K3Z0	Nod2	131590	Casp1	caspace 1	ENSMUSG00000025888
Q8K3Z0	Nod2	69618	CASP1	caspace 1, apoptosis-related cysteine peptidase (interleukin-1 receptor-interacting serine-threonine kinase 2)	ENSG00000137752
Q8K3Z0	Nod2	27941	RIPK2	receptor-interacting serine-threonine kinase 2	ENSG00000104312
Q8K3Z0	Nod2	130745	Ripk2	receptor (TNFRSF)-interacting serine-threonine kinase 2	ENSMUSG000000041135
Q8K3Z0	Nod2	84613	MAPK14	mitogen-activated protein kinase 14	ENSG00000112062
P31695	Notch4	213130	Nfatc2	nuclear factor of activated T-cells, cytoplasmic, calcineurin dependent 2	ENSMUSG000000027544
P31695	Notch4	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG00000004040
P31695	Notch4	41233	FBXW7	F-box and WD repeat domain containing 7	ENSG00000109670
Q61937	Npm1	46431	MDM2	Mdm2 p53 binding protein homolog (mouse)	ENSG00000135679
Q61937	Npm1	171159	Npm3	nucleoplasm 3	ENSMUSG00000056209
Q61937	Npm1	173505	Rps15	ribosomal protein S15	ENSMUSG000000063457
Q61937	Npm1	203768	Gm9846	predicted gene 9846	ENSMUSG00000050621
Q61937	Npm1	182925	Ybx1	Y box protein 1	ENSMUSG00000028639
Q61937	Npm1	176734	Gpank1	G patch domain and ankyrin repeats 1	ENSMUSG00000024389
Q61937	Npm1	155472	Fbxw7	F-box and WD-40 domain protein 7	ENSMUSG00000028086
Q61937	Npm1	191036	Trp53	transformation related protein 53	ENSMUSG000000059552
Q61937	Npm1	206505	Swap70	SWA-70 protein	ENSMUSG00000031015
P45448	Nr5a2	195189	Nr0b2	nuclear receptor subfamily 0, group B, member 2	ENSMUSG00000037583
P45448	Nr5a2	134573	Apc	adenomatous polyposis coli	ENSMUSG00000005871
P45448	Nr5a2	184281	Nr1h4	nuclear receptor subfamily 1, group H, member 4	ENSMUSG00000047638
P45448	Nr5a2	159027	Nr0b1	nuclear receptor subfamily 0, group B, member 1	ENSMUSG000000025056
Q8VCQ3	Nrbf2	18226	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit	ENSG00000132356
O35181	Nrg3	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUSG00000021047
O35181	Nrg3	7992	ERBB4	v-erb-a erythroblastic leukemia viral oncogene homolog 4	ENSG00000178568
Q9CZ44	Nsf1c	139755	Vcp	valosin containing protein	ENSMUSG00000028452
Q99P30	Ntm	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor protein)	ENSG00000145335
Q99P30	Ntm	260830	Prnp	prion protein	ENSMUSG00000079037
Q9QZS3	Numb	5590	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and CD61)	ENSG00000160255
Q9QZS3	Numb	547297	ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	ENSG00000259207
Q9QZS3	Numb	53924	ITGB5	integrin, beta 5	ENSG00000082781
Q9QZS3	Numb	36071	ITGB7	integrin, beta 7	ENSG00000139626
Q9QZS3	Numb	208968	Lnx2	ligand of numb-protein X 2	ENSMUSG00000016520
Q9QZS3	Numb	171744	Lnx1	ligand of numb-protein X 1	ENSMUSG00000029228
Q9QZS3	Numb	149571	Notch1	Notch gene homolog 1 (<i>Drosophila</i>)	ENSMUSG00000026923
Q9QZS3	Numb	174308	Eps15	epidermal growth factor receptor pathway substrate 15	ENSMUSG00000028552
Q9QZS3	Numb	200475	Ehd4	EH-domain containing 4	ENSMUSG000000027293
Q9QZS3	Numb	135500	Ehd1	EH-domain containing 1	ENSMUSG00000024772
Q9QZS3	Numb	172954	App	amyloid beta (A4) precursor protein	ENSMUSG00000022892
Q8BH74	Nup107	18046	SEC13	SEC13 homolog (<i>S. cerevisiae</i>)	ENSG00000157020
Q8BH74	Nup107	107322	NUP133	nucleoporin 133kDa	ENSG00000069248
Q8BH74	Nup107	71005	LGALS3BP	lectin, galactoside-binding, soluble, 3 binding protein	ENSG00000108679
Q8BH74	Nup107	68125	NUP85	nucleoporin 85kDa	ENSG00000125450
Q8BH74	Nup107	1204	SEH1L	SEH1-like (<i>S. cerevisiae</i>)	ENSG00000085415
Q8BH74	Nup107	53528	NUP37	nucleoporin 37kDa	ENSG00000075188
Q8BH74	Nup107	43974	NUP160	nucleoporin 160kDa	ENSG00000030066
Q8BH74	Nup107	46276	NUP107	nucleoporin 107kDa	ENSG00000111581
Q8BH74	Nup107	97774	NUP43	nucleoporin 43kDa	ENSG00000120253
Q8BH74	Nup107	24385	NUP98	nucleoporin 98kDa	ENSG00000110713
Q99P88	Nup155	17015	NUP155	nucleoporin 155kDa	ENSG00000113569
Q9Z0W3	Nup160	196509	Irf8	interferon regulatory factor 8	ENSMUSG000000041515
Q8CEC0	Nup88	53335	XPO1	exportin 1 (CRM1 homolog, yeast)	ENSG00000082898
Q8CEC0	Nup88	246910	NUP62	nucleoporin 62kDa	ENSG00000213024
Q8CEC0	Nup88	89810	NUP214	nucleoporin 214kDa	ENSG00000126883
Q8CEC0	Nup88	64798	RAN	RAN, member RAS oncogene family	ENSG00000132341
Q8CEC0	Nup88	21334	NUP88	nucleoporin 88kDa	ENSG00000108559
P00860	Odc1	189844	Tnfrsf1a	tumor necrosis factor receptor superfamily, member 1a	ENSMUSG00000030341
P00860	Odc1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q9EQW6	Oliq2	149644	Id4	inhibitor of DNA binding 4	ENSMUSG00000021379
Q9EQW6	Oliq2	131550	Id2	inhibitor of DNA binding 2	ENSMUSG00000020644
Q9EQW6	Oliq2	174161	Tcf3	transcription factor 3	ENSMUSG00000020167
Q9Z1N2	Orc1	135657	Mcm4	minichromosome maintenance deficient 4 homolog (<i>S. cerevisiae</i>)	ENSMUSG00000022673
Q9Z1N2	Orc1	168508	Orc4	origin recognition complex, subunit 4	ENSMUSG00000026761
Q9Z1N2	Orc1	142237	Cdc45	cell division cycle 45 homolog (<i>S. cerevisiae</i>)	ENSMUSG00000000028
Q9Z1N2	Orc1	95078	RPA2	replication protein A2, 32kDa	ENSG00000117748
Q9Z1N2	Orc1	186454	Cdc7	cell division cycle 7 (<i>S. cerevisiae</i>)	ENSMUSG00000029283
Q9Z1N2	Orc1	205861	Mcm7	minichromosome maintenance deficient 7 (<i>S. cerevisiae</i>)	ENSMUSG000000029730
Q9Z1N2	Orc1	139206	Orc5	origin recognition complex, subunit 5	ENSMUSG00000029012
Q9Z1N2	Orc1	210829	Cdc6	cell division cycle 6 homolog (<i>S. cerevisiae</i>)	ENSMUSG00000017499
Q9Z1N2	Orc1	167535	Mcm2	minichromosome maintenance deficient 2 mitotin (<i>S. cerevisiae</i>)	ENSMUSG00000002870
Q9Z1N2	Orc1	133737	Dbf4	DBF4 homolog (<i>S. cerevisiae</i>)	ENSMUSG00000002297
Q9Z1N2	Orc1	156912	Orc2	origin recognition complex, subunit 2	ENSMUSG00000026037
Q9Z1N2	Orc1	189829	Mcm6	minichromosome maintenance deficient 6 (MIS5 homolog)	ENSMUSG00000026355
Q9Z1N2	Orc1	78348	ORC2	origin recognition complex, subunit 2	ENSG00000115942
Q9Z1N2	Orc1	94195	ORC3	origin recognition complex, subunit 3	ENSG00000135336
Q9Z1N2	Orc1	34679	ORC5	origin recognition complex, subunit 5	ENSG00000164815
Q9Z1N2	Orc1	33609	LRWD1	leucine-rich repeats and WD repeat domain containing 1	ENSG00000161036
Q9Z1N2	Orc1	98628	ORC1	origin recognition complex, subunit 1	ENSG00000085840
P53347	Osm	182517	Il6st	interleukin 6 signal transducer	ENSMUSG00000021756
Q99NE9	Pbx4	189502	Nfe2	nuclear factor, erythroid derived 2	ENSMUSG00000058794
Q99NE9	Pbx4	152330	Meis1	Meis homeobox 1	ENSMUSG00000020160

Q99NE9	Pbx4	163580	Ssbp4	single stranded DNA binding protein 4	ENSMUSG00000070003
Q99NE9	Pbx4	146061	Meis3	Meis homeobox 3	ENSMUSG000000041420
Q99NE9	Pbx4	174161	Tcf3	transcription factor 3	ENSMUSG000000020167
Q99NE9	Pbx4	149671	Pknox2	Pbx/knotted 1 homeobox 2	ENSMUSG000000035934
Q99NE9	Pbx4	197577	Meis2	Meis homeobox 2	ENSMUSG000000027210
Q99NE9	Pbx4	204364	Polr2j	polymerase (RNA) II (DNA directed) polypeptide J	ENSMUSG000000039771
Q99NE9	Pbx4	158566	Jdp2	Jun dimerization protein 2	ENSMUSG000000034271
Q61990	Pcbp2	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide gamma	ENSMUSG000000041417
Q61990	Pcbp2	173713	Cebpa	CCAAT/enhancer binding protein (C/EBP), alpha	ENSMUSG000000034957
Q61990	Pcbp2	223547	Mir328	microRNA 328	ENSMUSG000000070130
Q61990	Pcbp2	188971	Tarbp2	TAR (HIV) RNA binding protein 2	ENSMUSG000000023051
Q61990	Pcbp2	131332	Flnc	filamin C, gamma	ENSMUSG000000068699
Q61990	Pcbp2	193395	Csda	cold shock domain protein A	ENSMUSG000000030189
Q8VHR0	Pcdh18	169389	Dab1	disabled homolog 1 (Drosophila)	ENSMUSG000000028519
Q8VHR0	Pcdh18	168935	Ap1p1	amyloid beta (A4) precursor-like protein 1	ENSMUSG00000006651
Q811Q9	Pcyt1b	7590	ACTB	actin, beta	ENSG00000075624
Q9JK42	Pdk2	164118	Pik3r2	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide beta	ENSMUSG000000031834
Q9JIL4	Pdzk1	155530	Slc34a1	solute carrier family 34 (sodium phosphate), member 1	ENSMUSG000000021490
Q9JIL4	Pdzk1	137697	Slc17a1	solute carrier family 17 (sodium phosphate), member 1	ENSMUSG000000021335
Q9JIL4	Pdzk1	37713	CFTR	cystic fibrosis transmembrane conductance regulator (ATF)	ENSG00000001626
Q9JIL4	Pdzk1	167051	Slc9a3	solute carrier family 9 (sodium/hydrogen exchanger), member 3	ENSMUSG000000036123
Q69Z50	Pdzrn3	78880	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	ENSG000000204217
Q69Z50	Pdzrn3	158574	Bmpr2	bone morphogenetic protein receptor, type II (serine/threonine kinase)	ENSMUSG000000067336
Q69Z50	Pdzrn3	197628	Sh3qlb1	SH3-domain GRB2-like B1 (endophilin)	ENSMUSG000000037062
Q69Z50	Pdzrn3	271528	Mos	Moloney sarcoma oncogene	ENSMUSG000000078365
Q69Z50	Pdzrn3	149050	Pmpca	peptidase (mitochondrial processing) alpha	ENSMUSG000000026926
Q69Z50	Pdzrn3	121561	Lsp1	lymphocyte specific 1	ENSMUSG000000018819
Q69Z50	Pdzrn3	177408	Twf1	twinfilin, actin-binding protein, homolog 1 (Drosophila)	ENSMUSG000000022451
Q69Z50	Pdzrn3	198834	Ccdc89	coiled-coil domain containing 89	ENSMUSG000000044362
Q69Z50	Pdzrn3	165484	Rabgqta	Rab geranylgeranyl transferase, a subunit	ENSMUSG000000040472
Q69Z50	Pdzrn3	196604	Foxc2	forkhead box C2	ENSMUSG000000046714
Q69Z50	Pdzrn3	127807	Map3k8	mitogen-activated protein kinase kinase kinase 8	ENSMUSG000000024235
Q69Z50	Pdzrn3	191539	Trpc1	transient receptor potential cation channel, subfamily C, member 1	ENSMUSG000000032839
Q9EQ61	Pes1	155117	Bop1	block of proliferation 1	ENSMUSG000000022557
P12382	Pfkl	179972	Pfkm	phosphofruktokinase, muscle	ENSMUSG000000033065
P12382	Pfkl	141537	Foxa1	forkhead box A1	ENSMUSG000000035451
P12382	Pfkl	144904	Grin1	glutamate receptor, ionotropic, NMDA1 (zeta 1)	ENSMUSG000000026959
Q9WUA3	Pfkip	171427	Btk	Bruton agammaglobulinemia tyrosine kinase	ENSMUSG000000031264
Q9WUA3	Pfkip	196509	Irf8	interferon regulatory factor 8	ENSMUSG000000041515
O35904	Pik3cd	212024	Hras1	Harvey rat sarcoma virus oncogene 1	ENSMUSG000000025499
O35904	Pik3cd	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide gamma	ENSMUSG000000041417
O35904	Pik3cd	25037	PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	ENSG00000145675
O35904	Pik3cd	129818	Eras	ES cell-expressed Ras	ENSMUSG000000031160
O35904	Pik3cd	133881	Pik3cq	phosphoinositide-3-kinase, catalytic, gamma polypeptide	ENSMUSG000000020573
Q9JHG7	Pik3cq	186954	Ldha	lactate dehydrogenase A	ENSMUSG000000063229
Q9JHG7	Pik3cq	180182	Wipf1	WAS/WASL interacting protein family, member 1	ENSMUSG000000075284
Q9JHG7	Pik3cq	191117	Lck	lymphocyte protein tyrosine kinase	ENSMUSG000000000409
Q9JHG7	Pik3cq	145089	Zap70	zeta-chain (TCR) associated protein kinase	ENSMUSG000000026117
Q9JHG7	Pik3cq	178777	Gna11	guanine nucleotide binding protein, alpha 11	ENSMUSG000000034781
Q9JHG7	Pik3cq	205458	Mertk	c-mer proto-oncogene tyrosine kinase	ENSMUSG000000014361
Q9JHG7	Pik3cq	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide gamma	ENSMUSG000000041417
Q9JHG7	Pik3cq	129419	Adrbk1	adrenergic receptor kinase, beta 1	ENSMUSG000000024858
Q9JHG7	Pik3cq	205331	Pik3cd	phosphatidylinositol 3-kinase catalytic delta polypeptide	ENSMUSG000000039936
Q9JHG7	Pik3cq	207234	Pde3b	phosphodiesterase 3B, cGMP-inhibited	ENSMUSG000000030671
Q9JHG7	Pik3cq	188800	Pik3r6	phosphoinositide-3-kinase, regulatory subunit 6	ENSMUSG000000046207
Q9JHG7	Pik3cq	189999	Cxcr4	chemokine (C-X-C motif) receptor 4	ENSMUSG000000045382
Q9JHG7	Pik3cq	209098	Flt1	FMS-like tyrosine kinase 1	ENSMUSG000000029648
Q9JHG7	Pik3cq	188688	Pik3r5	phosphoinositide-3-kinase, regulatory subunit 5, p101	ENSMUSG000000020901
O08908	Pik3r2	209439	Pdk2	pyruvate dehydrogenase kinase, isoenzyme 2	ENSMUSG000000038967
O08908	Pik3r2	178827	Brd7	bromodomain containing 7	ENSMUSG000000031660
O08908	Pik3r2	169560	S100a10	S100 calcium binding protein A10 (calpactin)	ENSMUSG000000041959
O08908	Pik3r2	207118	Card11	caspase recruitment domain family, member 11	ENSMUSG000000036526
O08908	Pik3r2	191455	Sh3ql1	SH3-domain GRB2-like 1	ENSMUSG000000032000
O08908	Pik3r2	212053	Becn1	beclin 1, autophagy related	ENSMUSG000000035086
O08908	Pik3r2	175696	Hook2	hook homolog 2 (Drosophila)	ENSMUSG000000052566
O08908	Pik3r2	172083	Kit	kit oncogene	ENSMUSG00000005672
O08908	Pik3r2	195445	NfkB1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	ENSMUSG000000028163
O08908	Pik3r2	158468	Axl	AXL receptor tyrosine kinase	ENSMUSG000000002602
O08908	Pik3r2	200571	Crk	v-crk sarcoma virus CT10 oncogene homolog (avian)	ENSMUSG000000017776
O08908	Pik3r2	193824	Avil	advillin	ENSMUSG000000025432
O08908	Pik3r2	211991	Ywhab	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein 1	ENSMUSG000000018326
O08908	Pik3r2	153069	Plec	plectin	ENSMUSG000000022565
O08908	Pik3r2	152570	Ywhah	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein 2	ENSMUSG000000018965
O08908	Pik3r2	135418	Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein 3	ENSMUSG000000022285
O08908	Pik3r2	130670	Ywhaq	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein 4	ENSMUSG000000076432
O08908	Pik3r2	204179	Ywhag	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein 5	ENSMUSG000000051391
O08908	Pik3r2	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein 6	ENSMUSG000000020849
O08908	Pik3r2	155970	Cbl	Casitas B-lineage lymphoma	ENSMUSG000000034342
O08908	Pik3r2	196834	Ptpn11	protein tyrosine phosphatase, non-receptor type 11	ENSMUSG000000043733
O08908	Pik3r2	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG000000059923
O08908	Pik3r2	160094	Eif2s3x	eukaryotic translation initiation factor 2, subunit 3, structural isoform 3	ENSMUSG000000035150
O08908	Pik3r2	164495	Shc1	src homology 2 domain-containing transforming protein C	ENSMUSG000000042626
O08908	Pik3r2	186954	Ldha	lactate dehydrogenase A	ENSMUSG000000063229
O08908	Pik3r2	199566	Gab2	growth factor receptor bound protein 2-associated protein 1	ENSMUSG000000004508
O08908	Pik3r2	163115	Socs6	suppressor of cytokine signaling 6	ENSMUSG000000056153
Q3U6Q4	Pik3r6	133881	Pik3cq	phosphoinositide-3-kinase, catalytic, gamma polypeptide	ENSMUSG000000020573
Q3U6Q4	Pik3r6	188688	Pik3r5	phosphoinositide-3-kinase, regulatory subunit 5, p101	ENSMUSG000000020901
Q70172	Pip4k2a	201554	Git1	G protein-coupled receptor kinase-interactor 1	ENSMUSG000000011877
P70181	Pip5k1b	176247	Clic1	chloride intracellular channel 1	ENSMUSG00000007041

P70181	Pip5k1b	196825	Clic4	chloride intracellular channel 4 (mitochondrial)	ENSMUSG000000037242
P70181	Pip5k1b	136330	Ifrd1	interferon-related developmental regulator 1	ENSMUSG00000001627
O55176	Pja1	160245	Maged1	melanoma antigen, family D, 1	ENSMUSG000000025151
O55176	Pja1	153222	Msx2	homeobox, msh-like 2	ENSMUSG000000021469
Q9ESG9	Pkmyt1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG000000028717
O70477	Pknx1	203379	Pbx1	pre B-cell leukemia transcription factor 1	ENSMUSG000000052534
O70477	Pknx1	152330	Meis1	Meis homeobox 1	ENSMUSG000000020160
O70477	Pknx1	172072	Pbx2	pre B-cell leukemia transcription factor 2	ENSMUSG000000034673
O70477	Pknx1	155900	Rps3a	ribosomal protein S3A	ENSMUSG000000028081
O70477	Pknx1	162874	Pbx3	pre B-cell leukemia transcription factor 3	ENSMUSG000000038718
O70477	Pknx1	196765	Mybbp1a	MYB binding protein (P160) 1a	ENSMUSG000000040463
O70477	Pknx1	207470	Actb	actin, beta	ENSMUSG000000029580
O70477	Pknx1	158163	Myh9	myosin, heavy polypeptide 9, non-muscle	ENSMUSG000000024443
O70477	Pknx1	176259	Gnrh1	gonadotropin releasing hormone 1	ENSMUSG000000015812
P51432	P1cb3	9763	SLC9A3R2	solute carrier family 9 (sodium/hydrogen exchanger), member 2	ENSG000000065054
P51432	P1cb3	187635	Ptpn6	protein tyrosine phosphatase, non-receptor type 6	ENSMUSG000000042666
Q8CIH5	P1ca2	196982	Ndc80	NDC80 homolog, kinetochore complex component (S. cerevisiae)	ENSMUSG000000024056
Q8CIH5	P1ca2	164316	Gsn	gelsolin	ENSMUSG000000026879
Q8CIH5	P1ca2	159207	Uck1	uridine-cytidine kinase 1	ENSMUSG000000025550
Q8CIH5	P1ca2	185818	Spry2	sprouty homolog 2 (Drosophila)	ENSMUSG000000022114
Q8CIH5	P1ca2	133351	Trim27	tripartite motif-containing 27	ENSMUSG000000021326
Q8CIH5	P1ca2	155134	Flna	filamin, alpha	ENSMUSG000000031328
Q8CIH5	P1ca2	165049	Fn1	fibronectin 1	ENSMUSG000000026193
Q8CIH5	P1ca2	193127	Dvl2	dishevelled 2, dsh homolog (Drosophila)	ENSMUSG000000020888
Q8CIH5	P1ca2	184645	Cap1	CAP, adenylate cyclase-associated protein 1 (yeast)	ENSMUSG000000028656
Q8CIH5	P1ca2	203055	Pdcd6ip	programmed cell death 6 interacting protein	ENSMUSG000000032504
Q8CIH5	P1ca2	158171	Spnb2	spectrin beta 2	ENSMUSG000000020315
Q8CIH5	P1ca2	133180	Bach2	BTB and CNC homology 2	ENSMUSG000000040270
Q8CIH5	P1ca2	165357	Hax1	HCLS1 associated X-1	ENSMUSG000000027944
Q8CIH5	P1ca2	158588	Tox4	TOX high mobility group box family member 4	ENSMUSG000000016831
Q8CIH5	P1ca2	190107	Phc2	polyhomeotic-like 2 (Drosophila)	ENSMUSG000000028796
Q8CIH5	P1ca2	164322	Zbtb7b	zinc finger and BTB domain containing 7B	ENSMUSG000000028042
Q8CIH5	P1ca2	605271	Dynl1b	dynein light chain Tctex-type 1D	ENSMUSG000000091454
Q8CIH5	P1ca2	178553	Inpp5d	inositol polyphosphate-5-phosphatase D	ENSMUSG000000026288
Q8CIH5	P1ca2	182475	Sh3kbp1	SH3-domain kinase binding protein 1	ENSMUSG000000040990
Q8CIH5	P1ca2	135050	Reps1	RalBP1 associated Eps domain containing protein	ENSMUSG000000019854
Q8CIH5	P1ca2	212256	Nbr1	neighbor of Brca1 gene 1	ENSMUSG000000017119
Q8CIH5	P1ca2	142378	Epor	erythropoietin receptor	ENSMUSG00000006235
Q8CIH5	P1ca2	205853	Errf1	ERBB receptor feedback inhibitor 1	ENSMUSG000000028967
Q8CIH5	P1ca2	144636	Sos2	son of sevenless homolog 2 (Drosophila)	ENSMUSG000000034801
Q8CIH5	P1ca2	139703	Epb4.1l2	erythrocyte protein band 4.1-like 2	ENSMUSG000000019978
Q8CIH5	P1ca2	149554	Fhl2	four and a half LIM domains 2	ENSMUSG00000008136
Q8CIH5	P1ca2	164070	Cryab	crystallin, alpha B	ENSMUSG000000032060
Q8CIH5	P1ca2	205458	Mertk	c-mer proto-oncogene tyrosine kinase	ENSMUSG000000014361
Q8CIH5	P1ca2	165316	Blnk	B-cell linker	ENSMUSG000000061132
Q8CIH5	P1ca2	152695	Sykb	spleen tyrosine kinase	ENSMUSG000000021457
Q8CIH5	P1ca2	171427	Btk	Bruton agammaglobulinemia tyrosine kinase	ENSMUSG000000031264
Q8CIH5	P1ca2	128365	Lyn	Yamaquchi sarcoma viral (v-yes-1) oncogene homolog	ENSMUSG000000042228
Q8CIH5	P1ca2	172522	Blk	B lymphoid kinase	ENSMUSG000000014453
Q8CIH5	P1ca2	144629	Fyn	Fyn proto-oncogene	ENSMUSG000000019843
Q8CIH5	P1ca2	53268	CSF1R	colony stimulating factor 1 receptor	ENSG00000182578
Q8CIH5	P1ca2	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG000000028717
Q7TS11	Plekhh1	165583	Itk	IL2-inducible T-cell kinase	ENSMUSG000000020395
Q9JIY0	Plekho1	212192	Ifi35	interferon-induced protein 35	ENSMUSG000000010358
Q9JIY0	Plekho1	169260	Nmi	N-myc (and STAT) interactor	ENSMUSG000000026946
Q8CGN5	Plin1	205933	Abhd5	abhydrolase domain containing 5	ENSMUSG000000032540
P43883	Plin2	141537	Foxa1	forkhead box A1	ENSMUSG000000035451
P43883	Plin2	205933	Abhd5	abhydrolase domain containing 5	ENSMUSG000000032540
P70206	Plxna1	201210	Plxnb1	plexin B1	ENSMUSG000000053646
P70206	Plxna1	189765	A530064D06R1	RIKEN cDNA A530064D06 gene	ENSMUSG000000043939
P70206	Plxna1	168769	Tyrobp	TYRO protein tyrosine kinase binding protein	ENSMUSG000000030579
P70206	Plxna1	160044	Nrp2	neuropilin 2	ENSMUSG000000025969
P70206	Plxna1	167260	Npr1	natriuretic peptide receptor 1	ENSMUSG000000027931
P70206	Plxna1	201088	Nrp1	neuropilin 1	ENSMUSG000000025810
Q9QY40	Plxnb3	157390	Arhgef11	Rho guanine nucleotide exchange factor (GEF) 11	ENSMUSG000000041977
Q8BZH4	Pogz	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG000000026380
Q8BZH4	Pogz	189469	Cbx5	chromobox homolog 5 (Drosophila HP1a)	ENSMUSG000000009575
Q6R3M4	Poli	146762	Rev1	REV1 homolog (S. cerevisiae)	ENSMUSG000000026082
Q6R3M4	Poli	64029	UBC	ubiquitin C	ENSG00000150991
Q6R3M4	Poli	50801	PCNA	proliferating cell nuclear antigen	ENSG00000132646
P70700	Polr1b	212569	Ubtf	upstream binding transcription factor, RNA polymerase I	ENSMUSG000000020923
P70700	Polr1b	129513	Crebbp	CREB binding protein	ENSMUSG000000022521
P70700	Polr1b	15872	RRN3	RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae)	ENSG000000085721
P70700	Polr1b	143810	Polr1e	polymerase (RNA) I polypeptide E	ENSMUSG000000028318
P70700	Polr1b	134078	Rrn3	RRN3 RNA polymerase I transcription factor homolog (yeast)	ENSMUSG000000022682
P70700	Polr1b	214048	Gmeb2	glucocorticoid modulatory element binding protein 2	ENSMUSG000000038705
P70700	Polr1b	207470	Actb	actin, beta	ENSMUSG000000029580
Q8K202	Polr1e	212569	Ubtf	upstream binding transcription factor, RNA polymerase I	ENSMUSG000000020923
Q8K202	Polr1e	205730	Polr1b	polymerase (RNA) I polypeptide B	ENSMUSG000000027395
Q8K329	Pom121	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUSG000000021047
Q9JJJ7	Porcn	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG000000040400
Q9JJJ7	Porcn	182694	Wnt5b	wingless-related MMTV integration site 5B	ENSMUSG000000030170
Q9JJJ7	Porcn	170090	Wnt7a	wingless-related MMTV integration site 7A	ENSMUSG000000030093
Q9JJJ7	Porcn	198435	Wnt4	wingless-related MMTV integration site 4	ENSMUSG000000036856
Q9JJJ7	Porcn	213058	Wnt3	wingless-related MMTV integration site 3	ENSMUSG00000000125
Q9JJJ7	Porcn	141666	Wnt5a	wingless-related MMTV integration site 5A	ENSMUSG000000021994
Q9JJJ7	Porcn	168736	Wnt6	wingless-related MMTV integration site 6	ENSMUSG000000033227
Q9JJJ7	Porcn	178528	Wnt3a	wingless-related MMTV integration site 3A	ENSMUSG000000009900
Q9JJJ7	Porcn	181251	Wnt1	wingless-related MMTV integration site 1	ENSMUSG000000022997

Q91J17	Porcn	170604	Wnt7b	wingless-related MMTV integration site 7B	ENSMUSG00000022382
P60469	Ppfa3	161623	Stxbp1	syntaxin binding protein 1	ENSMUSG00000026797
P60469	Ppfa3	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
P60469	Ppfa3	195526	Lin7c	lin-7 homolog C (C. elegans)	ENSMUSG000000027162
P60469	Ppfa3	207019	Cltc	clathrin, heavy polypeptide (Hc)	ENSMUSG000000047126
P60469	Ppfa3	191187	Apba2	amyloid beta (A4) precursor protein-binding, family A, member 2	ENSMUSG000000030519
P60469	Ppfa3	182740	Lin7b	lin-7 homolog B (C. elegans)	ENSMUSG00000003872
P60469	Ppfa3	140932	Dst	dystonin	ENSMUSG000000026131
P60469	Ppfa3	188759	Ppfa2	protein tyrosine phosphatase, receptor type, f polypeptide	ENSMUSG000000053825
P60469	Ppfa3	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG000000043091
P60469	Ppfa3	133241	Cask	calcium/calmodulin-dependent serine protein kinase (MAC kinase)	ENSMUSG000000031012
P60469	Ppfa3	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG000000062825
P60469	Ppfa3	163852	Calm1	calmodulin 1	ENSMUSG000000001175
P60469	Ppfa3	211468	Cnp	2',3'-cyclic nucleotide 3' phosphodiesterase	ENSMUSG000000006782
P60469	Ppfa3	207470	Actb	actin, beta	ENSMUSG000000029580
P60469	Ppfa3	135538	Syn1	synapsin I	ENSMUSG000000037217
Q8BVQ5	Ppme1	101377	ATP1A1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	ENSG00000163399
Q62415	Ppp1r13b	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG000000028717
Q6R891	Ppp1r9b	197102	Rgs2	regulator of G-protein signaling 2	ENSMUSG000000026360
Q6R891	Ppp1r9b	196509	Irf8	interferon regulatory factor 8	ENSMUSG000000041515
Q6R891	Ppp1r9b	184986	Gnb5	guanine nucleotide binding protein (G protein), beta 5	ENSMUSG000000032192
Q6R891	Ppp1r9b	213785	Rgs9	regulator of G-protein signaling 9	ENSMUSG000000020599
Q6R891	Ppp1r9b	129419	Adrbk1	adrenergic receptor kinase, beta 1	ENSMUSG000000024858
Q6R891	Ppp1r9b	130147	Oprm1	opioid receptor, mu 1	ENSMUSG000000007666
Q6R891	Ppp1r9b	105451	RGS2	regulator of G-protein signaling 2, 24kDa	ENSG00000116741
Q60996	Ppp2r5c	163399	Ccnq1	cyclin G1	ENSMUSG000000020326
Q60996	Ppp2r5c	180701	Ccnq2	cyclin G2	ENSMUSG000000029385
P63328	Ppp3ca	38336	FKBP8	FK506 binding protein 8, 38kDa	ENSG00000105701
P63328	Ppp3ca	39495	FKBP1A	FK506 binding protein 1A, 12kDa	ENSG00000088832
P63328	Ppp3ca	189544	Nfatc3	nuclear factor of activated T-cells, cytoplasmic, calcineurin dependent 3	ENSMUSG0000000031902
P63328	Ppp3ca	150003	Myoz3	myozenin 3	ENSMUSG000000049173
P63328	Ppp3ca	135551	Myoz1	myozenin 1	ENSMUSG000000068697
P63328	Ppp3ca	163739	Gabbr2	gamma-aminobutyric acid (GABA) A receptor, subunit beta 2	ENSMUSG000000007653
P63328	Ppp3ca	192048	Myoz2	myozenin 2	ENSMUSG000000028116
P63328	Ppp3ca	163565	Gabra1	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 1	ENSMUSG000000010803
P63328	Ppp3ca	163458	Gabbr2	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 2	ENSMUSG000000020436
P63328	Ppp3ca	161232	Cpeb3	cytoplasmic polyadenylation element binding protein 3	ENSMUSG000000039652
P63328	Ppp3ca	174557	Neur11a	neuronal homolog 1A (Drosophila)	ENSMUSG000000006435
P63328	Ppp3ca	157046	Hk1	hexokinase 1	ENSMUSG000000037012
P63328	Ppp3ca	183300	Epn2	epsin 2	ENSMUSG000000001036
P63328	Ppp3ca	145820	Camk2b	calcium/calmodulin-dependent protein kinase II, beta	ENSMUSG000000057897
P63328	Ppp3ca	200728	Uqcrc1	ubiquinol-cytochrome c reductase core protein 1	ENSMUSG000000025651
P63328	Ppp3ca	185482	Hsp90ab1	heat shock protein 90 alpha (cytosolic), class B member 1	ENSMUSG000000023944
P63328	Ppp3ca	144904	Grin1	glutamate receptor, ionotropic, NMDA1 (zeta 1)	ENSMUSG000000026959
Q60636	Prdm1	144556	Myc	myelocytomatosis oncogene	ENSMUSG000000022346
Q60636	Prdm1	190689	Nfat5	nuclear factor of activated T-cells 5	ENSMUSG000000003847
Q60636	Prdm1	194120	Dusp16	dual specificity phosphatase 16	ENSMUSG000000030203
Q60636	Prdm1	158538	Fos	FBJ osteosarcoma oncogene	ENSMUSG000000021250
Q60636	Prdm1	141793	Irf4	interferon regulatory factor 4	ENSMUSG000000021356
Q60636	Prdm1	55681	IRF4	interferon regulatory factor 4	ENSG00000137265
Q60636	Prdm1	190697	Il10	interleukin 10	ENSMUSG000000016529
Q9WUQ2	Preb	37210	PREB	prolactin regulatory element binding	ENSG00000138073
Q9WUQ2	Preb	78488	TGFBR1	transforming growth factor, beta receptor 1	ENSG00000106799
Q9WUQ2	Preb	163580	Ssbp4	single stranded DNA binding protein 4	ENSMUSG000000070003
Q9WUQ2	Preb	166578	Trip13	thyroid hormone receptor interactor 13	ENSMUSG000000021569
Q9DBC7	Prkar1a	205438	Taf15	TAF15 RNA polymerase II, TATA box binding protein (TBP) associated factor 15	ENSMUSG000000020680
Q9DBC7	Prkar1a	163061	Uqcrb	ubiquinol-cytochrome c reductase binding protein	ENSMUSG000000021520
Q9DBC7	Prkar1a	167243	Itqb2	integrin beta 2	ENSMUSG000000000290
Q9DBC7	Prkar1a	149554	Fhl2	four and a half LIM domains 2	ENSMUSG000000008136
Q9DBC7	Prkar1a	153066	Ranbp2	RAN binding protein 2	ENSMUSG000000003226
Q9DBC7	Prkar1a	157560	Ylpm1	YLP motif containing 1	ENSMUSG000000021244
Q9DBC7	Prkar1a	62465	COX5B	cytochrome c oxidase subunit Vb	ENSG00000135940
Q9DBC7	Prkar1a	46976	CBFA2T3	core-binding factor, runt domain, alpha subunit 2; translocator-associated with A	ENSG00000129993
Q9DBC7	Prkar1a	128910	Akap4	A kinase (PRKA) anchor protein 4	ENSMUSG000000050089
Q9DBC7	Prkar1a	173105	Prkaca	protein kinase, cAMP dependent, catalytic, alpha	ENSMUSG000000005469
POC605	Prkq1	189483	Ppp1r12a	protein phosphatase 1, regulatory (inhibitor) subunit 12A	ENSMUSG000000019907
POC605	Prkq1	158039	Gkap1	G kinase anchoring protein 1	ENSMUSG000000021552
P48437	Prox1	140814	Hdac3	histone deacetylase 3	ENSMUSG000000024454
P15331	Prph	22709	AKT1	v-akt murine thymoma viral oncogene homolog 1	ENSG00000142208
P15331	Prph	184743	Myo5a	myosin VA	ENSMUSG000000034593
O55234	Psmb5	160992	Lmna	lamin A	ENSMUSG000000028063
O55234	Psmb5	201307	Ubc	ubiquitin C	ENSMUSG000000008348
O55234	Psmb5	170858	Ppp2ca	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	ENSMUSG000000020349
O55234	Psmb5	176640	Csnk2b	casein kinase 2, beta polypeptide	ENSMUSG000000024387
O55234	Psmb5	175798	Ppp2r2a	protein phosphatase 2 (formerly 2A), regulatory subunit 2	ENSMUSG000000022052
O55234	Psmb5	141714	Ppp2r1a	protein phosphatase 2 (formerly 2A), regulatory subunit 1	ENSMUSG000000007564
O55234	Psmb5	173105	Prkaca	protein kinase, cAMP dependent, catalytic, alpha	ENSMUSG000000005469
O55234	Psmb5	207213	Psmal1	proteasome (prosome, macropain) subunit, alpha type 1	ENSMUSG000000030751
O55234	Psmb5	131624	Psmal2	proteasome (prosome, macropain) subunit, alpha type 2	ENSMUSG000000015671
O55234	Psmb5	146271	Psmal3	proteasome (prosome, macropain) subunit, alpha type 3	ENSMUSG000000006073
O55234	Psmb5	186688	Psmal5	proteasome (prosome, macropain) subunit, alpha type 5	ENSMUSG000000068749
O55234	Psmb5	167326	Psmal4	proteasome (prosome, macropain) subunit, alpha type 4	ENSMUSG000000032301
O55234	Psmb5	213730	Psmal7	proteasome (prosome, macropain) subunit, alpha type 7	ENSMUSG000000027566
O55234	Psmb5	140647	Psmal6	proteasome (prosome, macropain) subunit, alpha type 6	ENSMUSG000000021024
O55234	Psmb5	139866	Psmbl1	proteasome (prosome, macropain) subunit, beta type 1	ENSMUSG000000014769
O55234	Psmb5	189115	Psmbl2	proteasome (prosome, macropain) subunit, beta type 2	ENSMUSG000000028837
O55234	Psmb5	210309	Psmbl3	proteasome (prosome, macropain) subunit, beta type 3	ENSMUSG000000069744
O55234	Psmb5	189173	Psmbl10	proteasome (prosome, macropain) subunit, beta type 10	ENSMUSG000000031897
O55234	Psmb5	170564	Psmbl9	proteasome (prosome, macropain) subunit, beta type 9 (liver)	ENSMUSG000000024337

O55234	Psmb5	170702	Psmb8	proteasome (prosome, macropain) subunit, beta type 8 (ENSMUSG00000024338
O55234	Psmb5	166732	Psmb7	proteasome (prosome, macropain) subunit, beta type 7	ENSMUSG00000026750
O55234	Psmb5	194623	Psmb6	proteasome (prosome, macropain) subunit, beta type 6	ENSMUSG00000018286
O55234	Psmb5	170872	Psmb4	proteasome (prosome, macropain) subunit, beta type 4	ENSMUSG00000005779
Q91Z31	Ptbp2	156493	Mylk	myosin, light polypeptide kinase	ENSMUSG00000022836
Q91Z31	Ptbp2	185563	Aicda	activation-induced cytidine deaminase	ENSMUSG00000040627
Q91Z31	Ptbp2	174830	Trip12	thyroid hormone receptor interactor 12	ENSMUSG00000026219
Q91Z31	Ptbp2	150449	Wapal	wings apart-like homolog (Drosophila)	ENSMUSG00000041408
Q91Z31	Ptbp2	129416	Dnase1	deoxyribonuclease I	ENSMUSG00000005980
Q91Z31	Ptbp2	197552	Smarcc2	SWI/SNF related, matrix associated, actin dependent regu	ENSMUSG00000025369
Q91Z31	Ptbp2	179125	Pold1	polymerase (DNA directed), delta 1, catalytic subunit	ENSMUSG00000038644
Q91Z31	Ptbp2	132917	Cct5	chaperonin containing Tcp1, subunit 5 (epsilon)	ENSMUSG00000022234
Q91Z31	Ptbp2	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
Q91Z31	Ptbp2	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q91Z31	Ptbp2	130609	Glyr1	glyoxylate reductase 1 homolog (Arabidopsis)	ENSMUSG00000022536
Q91Z31	Ptbp2	168861	Nfkbid	nuclear factor of kappa light polypeptide gene enhancer in	ENSMUSG00000036931
Q91Z31	Ptbp2	176913	Pdcd4	programmed cell death 4	ENSMUSG00000024975
Q91Z31	Ptbp2	204629	Cct6b	chaperonin containing Tcp1, subunit 6b (zeta)	ENSMUSG00000020698
Q91Z31	Ptbp2	188705	Actr3	ARP3 actin-related protein 3 homolog (yeast)	ENSMUSG00000026341
Q91Z31	Ptbp2	190814	Rbbp4	retinoblastoma binding protein 4	ENSMUSG00000057236
Q91Z31	Ptbp2	196636	Metap1	methionyl aminopeptidase 1	ENSMUSG00000005813
Q91Z31	Ptbp2	214779	Actp1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
Q91Z31	Ptbp2	139206	Orc5	origin recognition complex, subunit 5	ENSMUSG00000029012
Q91Z31	Ptbp2	159868	Pdk3	pyruvate dehydrogenase kinase, isoenzyme 3	ENSMUSG00000035232
Q91Z31	Ptbp2	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUSG00000021047
Q06180	Ptpn2	216094	Cebpd	CCAAT/enhancer binding protein (C/EBP), delta	ENSMUSG00000071637
Q06180	Ptpn2	211618	Stat5a	signal transducer and activator of transcription 5A	ENSMUSG00000004043
Q06180	Ptpn2	211594	Stat5b	signal transducer and activator of transcription 5B	ENSMUSG00000020919
P18052	Ptpra	173444	Chl1	cell adhesion molecule with homology to L1CAM	ENSMUSG00000030077
P18052	Ptpra	74081	SRC	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene hom	ENSG00000197122
P18052	Ptpra	141714	Ppp2r1a	protein phosphatase 2 (formerly 2A), regulatory subunit A	ENSMUSG00000007564
P18052	Ptpra	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG00000059923
P18052	Ptpra	208976	Prkcb	protein kinase C, beta	ENSMUSG00000052889
Q80U78	Pum1	202439	Mfap1a	microfibrillar-associated protein 1A	ENSMUSG00000068479
Q80U78	Pum1	210259	Srcin1	SRC kinase signaling inhibitor 1	ENSMUSG00000038453
Q80U78	Pum1	163852	Calm1	calmodulin 1	ENSMUSG00000001175
Q80U78	Pum1	155439	Afq3l2	AFG3(ATPase family gene 3)-like 2 (yeast)	ENSMUSG00000024527
Q80U78	Pum1	214779	Actp1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
Q80U78	Pum1	144350	Tubb2c	tubulin, beta 2C	ENSMUSG00000036752
Q80U78	Pum1	174739	Sv2a	synaptic vesicle glycoprotein 2 a	ENSMUSG00000038486
Q80U78	Pum1	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG00000043091
Q80U78	Pum1	145005	Asap1	ArfGAP with SH3 domain, ankyrin repeat and PH domain1	ENSMUSG00000022377
Q80U78	Pum1	191734	Lyz2	lysozyme 2	ENSMUSG00000069516
Q80U78	Pum1	176809	Pak3	p21 protein (Cdc42/Rac)-activated kinase 3	ENSMUSG00000031284
Q80U78	Pum1	132947	Arhgef7	Rho guanine nucleotide exchange factor (GEF7)	ENSMUSG000000031511
Q80U78	Pum1	201554	Git1	G protein-coupled receptor kinase-interactor 1	ENSMUSG00000011877
P42669	Pura	149366	Fmr1	fragile X mental retardation syndrome 1 homolog	ENSMUSG00000000838
P42669	Pura	160472	Cdk1	cyclin-dependent kinase 1	ENSMUSG00000019942
P42669	Pura	175446	Ccne1	cyclin E1	ENSMUSG00000002068
P42669	Pura	138776	Ccna2	cyclin A2	ENSMUSG00000027715
P42669	Pura	212973	Ccnd1	cyclin D1	ENSMUSG00000070348
P42669	Pura	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
P42669	Pura	170398	Ccnh	cyclin H	ENSMUSG000000021548
P42669	Pura	194056	Cdk4	cyclin-dependent kinase 4	ENSMUSG00000006728
P42669	Pura	178679	Ccnb1	cyclin B1	ENSMUSG000000041431
P42669	Pura	210416	E2f1	E2F transcription factor 1	ENSMUSG00000027490
P42669	Pura	198142	Cdk2	cyclin-dependent kinase 2	ENSMUSG00000025358
P42669	Pura	137249	Hist1h1a	histone cluster 1, H1a	ENSMUSG00000049539
P42669	Pura	141112	Cdk5	cyclin-dependent kinase 5	ENSMUSG00000028969
Q8CE46	Pus7l	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q8BX57	Pxk	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q05144	Rac2	199974	Pak1	p21 protein (Cdc42/Rac)-activated kinase 1	ENSMUSG00000030774
Q05144	Rac2	203203	Nos2	nitric oxide synthase 2, inducible	ENSMUSG00000020826
Q05144	Rac2	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q05144	Rac2	3485	SMAD4	SMAD family member 4	ENSG00000141646
P60764	Rac3	195168	Arhgdib	Rho, GDP dissociation inhibitor (GDI) beta	ENSMUSG00000030220
P60764	Rac3	214842	Arhgdia	Rho GDP dissociation inhibitor (GDI) alpha	ENSMUSG00000025132
P60764	Rac3	191571	Khdrbs1	KH domain containing, RNA binding, signal transduction a	ENSMUSG00000028790
Q61550	Rad21	192196	Irfnq	interferon gamma	ENSMUSG000000055170
Q61550	Rad21	33417	RAD21	RAD21 homolog (S. pombe)	ENSG00000164754
Q61550	Rad21	89416	SMC3	structural maintenance of chromosomes 3	ENSG00000108055
Q61550	Rad21	80903	WAPAL	wings apart-like homolog (Drosophila)	ENSG00000062650
Q61550	Rad21	14730	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (S.	ENSG00000121892
Q61550	Rad21	69775	SMC1A	structural maintenance of chromosomes 1A	ENSG00000072501
Q61550	Rad21	57884	STAG1	stromal antigen 1	ENSG00000118007
Q61550	Rad21	23233	PDS5B	PDS5, regulator of cohesion maintenance, homolog B (S.	ENSG00000083642
Q61550	Rad21	85176	STAG2	stromal antigen 2	ENSG00000101972
P21784	Raq2	193190	Raq1	recombination activating gene 1	ENSMUSG000000061311
P21784	Raq2	136895	Myb	myeloblastosis oncogene	ENSMUSG00000019982
P21784	Raq2	143469	Pax5	paired box gene 5	ENSMUSG000000014030
P21784	Raq2	194292	Lef1	lymphoid enhancer binding factor 1	ENSMUSG00000027985
P21784	Raq2	195445	Nfkb1	nuclear factor of kappa light polypeptide gene enhancer in	ENSMUSG00000028163
P21784	Raq2	132298	Rela	v-rel reticuloendotheliosis viral oncogene homolog A (avia	ENSMUSG00000024927
P21784	Raq2	155648	Rel	reticuloendotheliosis oncogene	ENSMUSG00000020275
P21784	Raq2	155739	Prf1	perforin 1 (pore forming protein)	ENSMUSG000000037202
P21784	Raq2	128953	Skp2	S-phase kinase-associated protein 2 (p45)	ENSMUSG00000054115
P21784	Raq2	175693	Smad3	MAD homolog 3 (Drosophila)	ENSMUSG00000032402
P69566	Ranbp9	196500	Grm2	glutamate receptor, metabotropic 2	ENSMUSG00000023192
P69566	Ranbp9	130430	Grm8	glutamate receptor, metabotropic 8	ENSMUSG00000024211

P69566	Ranbp9	167476	Lrp1b	low density lipoprotein-related protein 1B (deleted in tumor)	ENSMUSG00000049252
P69566	Ranbp9	191212	Lrp4	low density lipoprotein receptor-related protein 4	ENSMUSG00000027253
P69566	Ranbp9	149366	Fmr1	fragile X mental retardation syndrome 1 homolog	ENSMUSG00000000838
Q9EQZ6	Rapgef4	16878	HRAS	v-Ha-ras Harvey rat sarcoma viral oncogene homolog	ENSG00000174775
Q9EQZ6	Rapgef4	191995	Rap1b	RAS related protein 1b	ENSMUSG00000052681
Q9EQZ6	Rapgef4	135873	Pclo	piccolo (presynaptic cytomatrix protein)	ENSMUSG00000061601
Q9EQZ6	Rapgef4	136900	Rims2	regulating synaptic membrane exocytosis 2	ENSMUSG00000037386
P18911	Rarg	79741	NCOA3	nuclear receptor coactivator 3	ENSG00000124151
Q77PD6	Raver2	171065	Ptbp1	polypyrimidine tract binding protein 1	ENSMUSG00000006498
Q77PD6	Raver2	12848	PTBP1	polypyrimidine tract binding protein 1	ENSG00000011304
Q8R4X3	Rbm12	209475	Cd19	CD19 antigen	ENSMUSG00000030724
Q8R4X3	Rbm12	128365	Lyn	Yamaquchi sarcoma viral (v-yes-1) oncogene homolog	ENSMUSG00000042228
Q8CGC6	Rbm28	156674	Tcf4	transcription factor 4	ENSMUSG00000053477
Q8CGC6	Rbm28	205243	Ctnnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
Q8CGC6	Rbm28	134833	Tnik	TRAF2 and NCK interacting kinase	ENSMUSG00000027692
Q8CGC6	Rbm28	180861	Zc3h13	zinc finger CCH type containing 13	ENSMUSG00000022000
Q8CGC6	Rbm28	186169	Zfp326	zinc finger protein 326	ENSMUSG00000029290
Q8CGC6	Rbm28	139346	Mllt10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog)	ENSMUSG00000026743
Q8CGC6	Rbm28	201862	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of transcription 1	ENSMUSG00000032481
Q8CGC6	Rbm28	267922	Smarcd2	SWI/SNF related, matrix associated, actin dependent regulator of transcription 2	ENSMUSG00000078619
Q8CGC6	Rbm28	181503	Flii	flightless I homolog (Drosophila)	ENSMUSG00000002812
Q8CGC6	Rbm28	143983	Trim28	tripartite motif-containing 28	ENSMUSG00000005566
Q8CGC6	Rbm28	129915	Rbm14	RNA binding motif protein 14	ENSMUSG00000006456
Q8CGC6	Rbm28	196765	Mybbp1a	MYB binding protein (P160) 1a	ENSMUSG000000040463
Q8CGC6	Rbm28	137755	Wtpap	Wilms' tumour 1-associating protein	ENSMUSG000000060475
Q8CGC6	Rbm28	135895	Ubr5	ubiquitin protein ligase E3 component n-recognin 5	ENSMUSG00000037487
Q8CGC6	Rbm28	175749	Dot1l	DOT1-like, histone H3 methyltransferase (S. cerevisiae)	ENSMUSG00000061589
Q8CGC6	Rbm28	169383	Rif1	Rap1 interacting factor 1 homolog (yeast)	ENSMUSG00000036202
Q8CGC6	Rbm28	197552	Smarcc2	SWI/SNF related, matrix associated, actin dependent regulator of transcription 2	ENSMUSG00000025369
Q8CGC6	Rbm28	207801	Atad3a	ATPase family, AAA domain containing 3A	ENSMUSG000000029036
Q8CGC6	Rbm28	176882	Chd1l	chromodomain helicase DNA binding protein 1-like	ENSMUSG00000028089
Q8CGC6	Rbm28	140748	Carm1	coactivator-arginine methyltransferase 1	ENSMUSG00000032185
Q8CGC6	Rbm28	195347	Arid1a	AT rich interactive domain 1A (SWI-like)	ENSMUSG00000007880
Q8CGC6	Rbm28	187693	Wdr47	WD repeat domain 47	ENSMUSG000000040389
Q8CGC6	Rbm28	171022	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of transcription 5	ENSMUSG000000031715
Q8CGC6	Rbm28	177837	Tcf7l2	transcription factor 7-like 2, T-cell specific, HMG-box	ENSMUSG00000024985
Q8CFE3	Rcor1	171511	Nr4a2	nuclear receptor subfamily 4, group A, member 2	ENSMUSG00000026826
Q8CFE3	Rcor1	198084	Kdm1a	lysine (K)-specific demethylase 1A	ENSMUSG00000036940
Q8CFE3	Rcor1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q8CFE3	Rcor1	191058	Hdac1	histone deacetylase 1	ENSMUSG00000028800
Q8CFE3	Rcor1	203203	Nos2	nitric oxide synthase 2, inducible	ENSMUSG00000020826
Q8CFE3	Rcor1	177358	Tnf	tumor necrosis factor	ENSMUSG00000024401
Q8CFE3	Rcor1	152546	Gfi1b	growth factor independent 1B	ENSMUSG00000026815
Q8CFE3	Rcor1	138489	Rcor2	REST corepressor 2	ENSMUSG00000024968
Q8CFE3	Rcor1	143980	Hdac2	histone deacetylase 2	ENSMUSG000000019777
Q8CFE3	Rcor1	208942	Rcor3	REST corepressor 3	ENSMUSG00000037395
Q6PGA0	Rcor3	152546	Gfi1b	growth factor independent 1B	ENSMUSG00000026815
Q6PGA0	Rcor3	172449	Rcor1	REST corepressor 1	ENSMUSG00000037896
Q6PGA0	Rcor3	138489	Rcor2	REST corepressor 2	ENSMUSG00000024968
Q6PGA0	Rcor3	191058	Hdac1	histone deacetylase 1	ENSMUSG00000028800
Q6PGA0	Rcor3	198084	Kdm1a	lysine (K)-specific demethylase 1A	ENSMUSG00000036940
Q6PGA0	Rcor3	143980	Hdac2	histone deacetylase 2	ENSMUSG00000019777
Q75NR7	Recq4	107800	HNRNPU	heterogeneous nuclear ribonucleoprotein U (scaffold attachment site 1)	ENSG00000153187
Q75NR7	Recq4	23949	GNAI1	guanine nucleotide binding protein (G protein), alpha inhibitory 1	ENSG00000127955
Q75NR7	Recq4	100849	GNAI3	guanine nucleotide binding protein (G protein), alpha inhibitory 3	ENSG000000065135
Q75NR7	Recq4	83517	STOM	stomatatin	ENSG00000148175
Q75NR7	Recq4	85398	ATAD3A	ATPase family, AAA domain containing 3A	ENSG00000197785
Q75NR7	Recq4	37588	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	ENSG00000135486
Q75NR7	Recq4	35659	HNRNPA1L2	heterogeneous nuclear ribonucleoprotein A1-like 2	ENSG00000139675
Q75NR7	Recq4	41960	CHCHD3	coiled-coil-helix-coiled-coil-helix domain containing 3	ENSG00000106554
Q75NR7	Recq4	36105	GNAI2	guanine nucleotide binding protein (G protein), alpha inhibitory 2	ENSG00000114353
Q75NR7	Recq4	41326	RECQL4	RecQ protein-like 4	ENSG00000160957
Q8BGH4	Reep1	186039	Olfir992	olfactory receptor 992	ENSMUSG00000075221
Q8VEL9	Rem2	30919	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSG00000164924
Q8VEL9	Rem2	135418	Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000022285
Q80XA6	Reps2	35667	ASAP1	ArfGAP with SH3 domain, ankyrin repeat and PH domain	ENSG00000153317
Q80XA6	Reps2	27381	ASAP2	ArfGAP with SH3 domain, ankyrin repeat and PH domain	ENSG00000151693
Q80XA6	Reps2	60317	PXN	paxillin	ENSG00000089159
Q80XA6	Reps2	145005	Asap1	ArfGAP with SH3 domain, ankyrin repeat and PH domain	ENSMUSG00000022377
Q8VIG1	Rest	179756	Sp3	trans-acting transcription factor 3	ENSMUSG00000027109
Q8VIG1	Rest	185735	Nanoq	Nanoq homeobox	ENSMUSG00000012396
Q8VIG1	Rest	144115	Ewsr1	Ewing sarcoma breakpoint region 1	ENSMUSG00000009079
Q8VIG1	Rest	159027	Nr0b1	nuclear receptor subfamily 0, group B, member 1	ENSMUSG00000025056
Q8VIG1	Rest	156033	Htt	huntingtin	ENSMUSG00000029104
Q9R1A8	Rfwd2	209676	Trib3	tribbles homolog 3 (Drosophila)	ENSMUSG00000032715
Q9R1A8	Rfwd2	144324	Trib1	tribbles homolog 1 (Drosophila)	ENSMUSG00000032501
Q9R1A8	Rfwd2	129207	Trib2	tribbles homolog 2 (Drosophila)	ENSMUSG00000020601
P48379	Rfx2	214446	Foxj1	forkhead box J1	ENSMUSG00000034227
P48379	Rfx2	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG00000024406
P48379	Rfx2	135641	Mynn	myoneurin	ENSMUSG00000037730
Q61193	Rgl2	180975	Nras	neuroblastoma ras oncogene	ENSMUSG00000027852
Q61193	Rgl2	61868	CCND1	cyclin D1	ENSG00000110092
Q3UYI5	Rgl3	28871	SMURF1	SMAD specific E3 ubiquitin protein ligase 1	ENSG00000198742
Q3UYI5	Rgl3	212024	Hras1	Harvey rat sarcoma virus oncogene 1	ENSMUSG00000025499
Q3UYI5	Rgl3	161685	Rit1	Ras-like without CAAX 1	ENSMUSG00000028057
Q35730	Ring1	214665	Cbx2	chromobox homolog 2 (Drosophila Pc class)	ENSMUSG00000025577
Q35730	Ring1	172988	Rybp	RING1 and YY1 binding protein	ENSMUSG00000072872
Q35730	Ring1	214668	Cbx8	chromobox homolog 8 (Drosophila Pc class)	ENSMUSG00000025578
O35730	Ring1	198910	Kdm2b	lysine (K)-specific demethylase 2B	ENSMUSG00000029475

O35730	Rinq1	198115	Rnf2	ring finger protein 2	ENSMUSG00000026484
O35730	Rinq1	190107	Phc2	polyhomeotic-like 2 (Drosophila)	ENSMUSG00000028796
O35730	Rinq1	210296	Pcwf2	polycomb group ring finger 2	ENSMUSG00000018537
O35730	Rinq1	139744	Bmi1	Bmi1 polycomb ring finger oncogene	ENSMUSG00000026739
O35730	Rinq1	29751	E2F6	E2F transcription factor 6	ENSG00000169016
Q60855	Ripk1	156458	Ikbkq	inhibitor of kappaB kinase gamma	ENSMUSG00000004221
Q60855	Ripk1	189844	Tnfrsf1a	tumor necrosis factor receptor superfamily, member 1a	ENSMUSG00000030341
Q60855	Ripk1	134122	Optn	optineurin	ENSMUSG00000026672
Q60855	Ripk1	156729	Tlr4	toll-like receptor 4	ENSMUSG00000039005
Q60855	Ripk1	135792	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	ENSMUSG00000019850
Q60855	Ripk1	210517	Itch	itchy, E3 ubiquitin protein ligase	ENSMUSG00000027598
Q60855	Ripk1	127807	Map3k8	mitogen-activated protein kinase kinase kinase 8	ENSMUSG00000024235
Q60855	Ripk1	146254	Traf2	TNF receptor-associated factor 2	ENSMUSG00000026942
Q60855	Ripk1	212910	Fadd	Fas (TNFRSF6)-associated via death domain	ENSMUSG00000031077
Q60855	Ripk1	165974	Ripk3	receptor-interacting serine-threonine kinase 3	ENSMUSG00000022221
Q60855	Ripk1	167393	Ppp6c	protein phosphatase 6, catalytic subunit	ENSMUSG00000026753
Q60855	Ripk1	213345	Map3k3	mitogen-activated protein kinase kinase kinase 3	ENSMUSG00000020700
Q60855	Ripk1	69075	BIRC2	baculoviral IAP repeat containing 2	ENSG00000110330
Q60855	Ripk1	82385	ZBP1	Z-DNA binding protein 1	ENSG00000124256
Q60855	Ripk1	213369	Zbp1	Z-DNA binding protein 1	ENSMUSG000000036712
Q60855	Ripk1	145432	Atg12	autophagy-related 12 (yeast)	ENSMUSG00000032905
Q60855	Ripk1	148568	Atg5	autophagy-related 5 (yeast)	ENSMUSG00000038160
Q60855	Ripk1	62144	FADD	Fas (TNFRSF6)-associated via death domain	ENSG00000168040
Q60855	Ripk1	24923	TRIM21	tripartite motif containing 21	ENSG00000132109
Q60855	Ripk1	157464	Casp8	caspace 8	ENSMUSG00000026029
Q60855	Ripk1	186918	Tradd	TNFRSF1A-associated via death domain	ENSMUSG00000031887
Q60855	Ripk1	178701	Atg16l1	autophagy-related 16-like 1 (yeast)	ENSMUSG00000026289
Q60855	Ripk1	173742	Tank	TRAF family member-associated NF-kappa B activator	ENSMUSG00000064289
Q60855	Ripk1	177358	Tnf	tumor necrosis factor	ENSMUSG00000024401
Q60855	Ripk1	179176	Cyld	cylindromatosis (turban tumor syndrome)	ENSMUSG000000036712
Q60855	Ripk1	201307	Ubc	ubiquitin C	ENSMUSG00000008348
Q60855	Ripk1	191571	Khdrbs1	KH domain containing, RNA binding, signal transduction a	ENSMUSG00000028790
Q60855	Ripk1	168358	Sqstm1	sequestosome 1	ENSMUSG00000015837
Q60855	Ripk1	57753	HTRA2	HtrA serine peptidase 2	ENSG00000115317
Q60855	Ripk1	133125	Birc2	baculoviral IAP repeat-containing 2	ENSMUSG000000057367
Q9QZL0	Ripk3	143710	Ripk1	receptor (TNFRSF)-interacting serine-threonine kinase 1	ENSMUSG00000021408
Q9QZL0	Ripk3	212910	Fadd	Fas (TNFRSF6)-associated via death domain	ENSMUSG00000031077
Q9QZL0	Ripk3	82385	ZBP1	Z-DNA binding protein 1	ENSG00000124256
Q9QZL0	Ripk3	191912	Ticam1	toll-like receptor adaptor molecule 1	ENSMUSG00000047123
Q9QZL0	Ripk3	193153	Mkl1	mixed lineage kinase domain-like	ENSMUSG000000012519
Q9ERK0	Ripk4	63432	MAP3K3	mitogen-activated protein kinase kinase kinase 3	ENSG00000198909
P70336	Rock2	179428	Raf1	v-raf-leukemia viral oncogene 1	ENSMUSG00000000441
P70336	Rock2	146219	Pfn2	profilin 2	ENSMUSG00000027805
P70336	Rock2	199633	Rhoa	ras homolog gene family, member A	ENSMUSG00000007815
Q8BHD7	Rod1	196509	Irf8	interferon regulatory factor 8	ENSMUSG000000041515
Q8BHD7	Rod1	138828	Raver1	ribonucleoprotein, PTB-binding 1	ENSMUSG00000010205
Q92139	Ror1	160245	Maqed1	melanoma antigen, family D, 1	ENSMUSG00000025151
P47963	Rpl13	210657	Tia1	Tia1 cytotoxic granule-associated RNA binding protein-like	ENSMUSG00000030846
P47963	Rpl13	187507	Rpl5	ribosomal protein L5	ENSMUSG00000058558
P47963	Rpl13	157406	Rpl8	ribosomal protein L8	ENSMUSG00000003970
P47963	Rpl13	181665	Rpl13a	ribosomal protein L13A	ENSMUSG00000074129
P47963	Rpl13	205215	Rpl14	ribosomal protein L14	ENSMUSG00000025794
P47963	Rpl13	184234	Rpl18	ribosomal protein L18	ENSMUSG00000059070
P47963	Rpl13	206668	Rpl22	ribosomal protein L22	ENSMUSG00000028936
P47963	Rpl13	210357	Rpl23	ribosomal protein L23	ENSMUSG00000071415
P47963	Rpl13	147503	Rpl31	ribosomal protein L31	ENSMUSG00000073702
P47963	Rpl13	194240	Rpl34	ribosomal protein L34	ENSMUSG00000062006
P47963	Rpl13	200714	Rps3	ribosomal protein S3	ENSMUSG00000030744
P47963	Rpl13	164942	Rps4x	ribosomal protein S4, X-linked	ENSMUSG00000031320
P47963	Rpl13	179529	Rps8	ribosomal protein S8	ENSMUSG000000047675
P47963	Rpl13	128423	Rps20	ribosomal protein S20	ENSMUSG00000028234
P47963	Rpl13	157319	Rps25	ribosomal protein S25	ENSMUSG00000009927
P47963	Rpl13	212569	Ubtf	upstream binding transcription factor, RNA polymerase I	ENSMUSG00000020923
P47963	Rpl13	157719	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	ENSMUSG00000020075
P47963	Rpl13	213550	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	ENSMUSG00000020719
P47963	Rpl13	167580	Hnrnpm	heterogeneous nuclear ribonucleoprotein M	ENSMUSG00000059208
P47963	Rpl13	133734	Rpl15	ribosomal protein L15	ENSMUSG00000012405
P47963	Rpl13	147305	Gm10240	predicted gene 10240	ENSMUSG00000068397
P47963	Rpl13	163323	Rpl30-ps8	ribosomal protein L30, pseudogene 8	ENSMUSG00000062582
P47963	Rpl13	207877	Srsf1	serine/arginine-rich splicing factor 1	ENSMUSG00000018379
P62889	Rpl30-ps8	210657	Tia1	Tia1 cytotoxic granule-associated RNA binding protein-like	ENSMUSG00000030846
P62889	Rpl30-ps8	187507	Rpl5	ribosomal protein L5	ENSMUSG00000058558
P62889	Rpl30-ps8	157406	Rpl8	ribosomal protein L8	ENSMUSG00000003970
P62889	Rpl30-ps8	198268	Rpl13	ribosomal protein L13	ENSMUSG00000000740
P62889	Rpl30-ps8	181665	Rpl13a	ribosomal protein L13A	ENSMUSG000000074129
P62889	Rpl30-ps8	205215	Rpl14	ribosomal protein L14	ENSMUSG00000025794
P62889	Rpl30-ps8	184234	Rpl18	ribosomal protein L18	ENSMUSG00000059070
P62889	Rpl30-ps8	206668	Rpl22	ribosomal protein L22	ENSMUSG00000028936
P62889	Rpl30-ps8	210357	Rpl23	ribosomal protein L23	ENSMUSG00000071415
P62889	Rpl30-ps8	147503	Rpl31	ribosomal protein L31	ENSMUSG00000073702
P62889	Rpl30-ps8	194240	Rpl34	ribosomal protein L34	ENSMUSG00000062006
P62889	Rpl30-ps8	200714	Rps3	ribosomal protein S3	ENSMUSG00000030744
P62889	Rpl30-ps8	164942	Rps4x	ribosomal protein S4, X-linked	ENSMUSG00000031320
P62889	Rpl30-ps8	179529	Rps8	ribosomal protein S8	ENSMUSG000000047675
P62889	Rpl30-ps8	128423	Rps20	ribosomal protein S20	ENSMUSG00000028234
P62889	Rpl30-ps8	157319	Rps25	ribosomal protein S25	ENSMUSG00000009927
P62889	Rpl30-ps8	212569	Ubtf	upstream binding transcription factor, RNA polymerase I	ENSMUSG00000020923
P62889	Rpl30-ps8	157719	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	ENSMUSG00000020075
P62889	Rpl30-ps8	213550	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	ENSMUSG00000020719

P62889	Rpl30-ps8	167580	Hnrnpm	heterogeneous nuclear ribonucleoprotein M	ENSMUSG00000059208
P62889	Rpl30-ps8	133734	Rpl15	ribosomal protein L15	ENSMUSG00000012405
P62889	Rpl30-ps8	147305	Gm10240	predicted gene 10240	ENSMUSG000000068397
P62889	Rpl30-ps8	207877	Srsf1	serine/arginine-rich splicing factor 1	ENSMUSG00000018379
Q9D1R9	Rpl34	210657	Tial1	Tia1 cytotoxic granule-associated RNA binding protein-like	ENSMUSG00000030846
Q9D1R9	Rpl34	187507	Rpl5	ribosomal protein L5	ENSMUSG00000058558
Q9D1R9	Rpl34	157406	Rpl8	ribosomal protein L8	ENSMUSG00000003970
Q9D1R9	Rpl34	198268	Rpl13	ribosomal protein L13	ENSMUSG00000000740
Q9D1R9	Rpl34	181665	Rpl13a	ribosomal protein L13A	ENSMUSG00000074129
Q9D1R9	Rpl34	205215	Rpl14	ribosomal protein L14	ENSMUSG000000025794
Q9D1R9	Rpl34	184234	Rpl18	ribosomal protein L18	ENSMUSG00000059070
Q9D1R9	Rpl34	206668	Rpl22	ribosomal protein L22	ENSMUSG00000028936
Q9D1R9	Rpl34	210357	Rpl23	ribosomal protein L23	ENSMUSG00000071415
Q9D1R9	Rpl34	147503	Rpl31	ribosomal protein L31	ENSMUSG00000073702
Q9D1R9	Rpl34	200714	Rps3	ribosomal protein S3	ENSMUSG000000030744
Q9D1R9	Rpl34	164942	Rps4x	ribosomal protein S4, X-linked	ENSMUSG00000031320
Q9D1R9	Rpl34	179529	Rps8	ribosomal protein S8	ENSMUSG00000047675
Q9D1R9	Rpl34	128423	Rps20	ribosomal protein S20	ENSMUSG00000028234
Q9D1R9	Rpl34	157319	Rps25	ribosomal protein S25	ENSMUSG00000009927
Q9D1R9	Rpl34	212569	Ubtf	upstream binding transcription factor, RNA polymerase I	ENSMUSG00000020923
Q9D1R9	Rpl34	157719	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	ENSMUSG00000020075
Q9D1R9	Rpl34	213550	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	ENSMUSG00000020719
Q9D1R9	Rpl34	167580	Hnrnpm	heterogeneous nuclear ribonucleoprotein M	ENSMUSG00000059208
Q9D1R9	Rpl34	133734	Rpl15	ribosomal protein L15	ENSMUSG00000012405
Q9D1R9	Rpl34	147305	Gm10240	predicted gene 10240	ENSMUSG000000068397
Q9D1R9	Rpl34	163323	Rpl30-ps8	ribosomal protein L30, pseudogene 8	ENSMUSG00000062582
Q9D1R9	Rpl34	207877	Srsf1	serine/arginine-rich splicing factor 1	ENSMUSG00000018379
O88667	Rrad	207763	Rac1	RAS-related C3 botulinum substrate 1	ENSMUSG00000001847
O88667	Rrad	135418	Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000022285
O88667	Rrad	141434	Tpm2	tropomyosin 2, beta	ENSMUSG00000028464
B2RS91	Rrn3	130935	Taf1b	TATA box binding protein (Tbp)-associated factor, RNA pol	ENSMUSG00000059669
B2RS91	Rrn3	205730	Polr1b	polymerase (RNA) I polypeptide B	ENSMUSG00000027395
Q9WTM5	Ruvbl2	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380
Q9WTM5	Ruvbl2	166976	Ruvbl1	RuvB-like protein 1	ENSMUSG00000030079
Q9WTM5	Ruvbl2	185177	Leo1	Leo1, Paf1/RNA polymerase II complex component, homo	ENSMUSG00000042487
Q9WTM5	Ruvbl2	160219	Wdr1	WD repeat domain 1	ENSMUSG00000005103
Q9WTM5	Ruvbl2	206751	Ctr9	Ctr9, Paf1/RNA polymerase II complex component, homo	ENSMUSG00000005609
Q9WTM5	Ruvbl2	213166	Sall4	sal-like 4 (Drosophila)	ENSMUSG00000027547
P28700	Rxra	151419	Relb	avian reticuloendotheliosis viral (v-rel) oncogene related	ENSMUSG00000002983
P28700	Rxra	36616	SP1	Sp1 transcription factor	ENSG00000185591
P28700	Rxra	136387	Trim24	tripartite motif-containing 24	ENSMUSG00000029833
P28700	Rxra	75619	NONO	non-POU domain containing, octamer-binding	ENSG00000147140
P28700	Rxra	23397	SIN3A	SIN3 homolog A, transcription regulator (yeast)	ENSG00000169375
P28700	Rxra	210748	Thra	thyroid hormone receptor alpha	ENSMUSG00000058756
P28700	Rxra	133569	Thrb	thyroid hormone receptor beta	ENSMUSG000000021779
P28700	Rxra	63568	MED25	mediator complex subunit 25	ENSG00000104973
P28700	Rxra	180153	Med25	mediator of RNA polymerase II transcription, subunit 25 H	ENSMUSG00000002968
P28700	Rxra	47411	RARA	retinoic acid receptor, alpha	ENSG00000131759
P28700	Rxra	96092	SFPQ	splicing factor proline/glutamine-rich	ENSG00000116560
P28700	Rxra	151888	Hes1	hairly and enhancer of split 1 (Drosophila)	ENSMUSG00000022528
P28700	Rxra	191058	Hdac1	histone deacetylase 1	ENSMUSG00000028800
P28700	Rxra	205564	Cyp3a13	cytochrome P450, family 3, subfamily a, polypeptide 13	ENSMUSG00000029727
P28700	Rxra	205549	Ccl6	chemokine (C-C motif) ligand 6	ENSMUSG00000018927
P28700	Rxra	205529	Ccl9	chemokine (C-C motif) ligand 9	ENSMUSG00000019122
P28700	Rxra	190792	Nr1h3	nuclear receptor subfamily 1, group H, member 3	ENSMUSG00000002108
P28700	Rxra	133480	Rarb	retinoic acid receptor, beta	ENSMUSG00000017491
P28700	Rxra	178353	Zfp423	zinc finger protein 423	ENSMUSG00000045333
P28700	Rxra	210842	Rara	retinoic acid receptor, alpha	ENSMUSG00000037992
P28700	Rxra	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG000000028717
P28700	Rxra	95333	MECR	mitochondrial trans-2-enoyl-CoA reductase	ENSG00000116353
P28700	Rxra	132359	Pcmt1	protein-L-isospartate (D-aspartate) O-methyltransferase	ENSMUSG00000019795
P28700	Rxra	170640	Ppara	peroxisome proliferator activated receptor alpha	ENSMUSG00000022383
P28700	Rxra	184281	Nr1h4	nuclear receptor subfamily 1, group H, member 4	ENSMUSG000000047638
P28700	Rxra	155072	Nsd1	nuclear receptor-binding SET-domain protein 1	ENSMUSG00000021488
P28700	Rxra	158082	Ppard	peroxisome proliferator activator receptor delta	ENSMUSG00000002250
P28700	Rxra	49450	SMARCD3	SWI/SNF related, matrix associated, actin dependent regu	ENSG00000082014
P28704	Rxb	100140	GTF2B	general transcription factor IIB	ENSG00000137947
P28704	Rxb	788	NRIP1	nuclear receptor interacting protein 1	ENSG00000180530
Q9QX96	Sall2	209608	Ngfr	nerve growth factor receptor (TNFR superfamily, member	ENSMUSG000000001020
Q9QX96	Sall2	213166	Sall4	sal-like 4 (Drosophila)	ENSMUSG00000027547
Q8BIH0	Sap130	176265	Csn1s1	casein alpha s1	ENSMUSG00000070702
P26638	Sars	170858	Ppp2ca	protein phosphatase 2 (formerly 2A), catalytic subunit, al	ENSMUSG00000020349
Q8K2B3	Sdha	204104	Sdhc	succinate dehydrogenase complex, subunit C, integral me	ENSMUSG000000058076
Q8K2B3	Sdha	201440	Sdhb	succinate dehydrogenase complex, subunit B, iron sulfur	ENSMUSG00000009863
Q8BH34	Sema3d	201088	Nrp1	neuropilin 1	ENSMUSG000000025810
Q91ZX6	Senp2	191852	Mdm2	transformed mouse 3T3 cell double minute 2	ENSMUSG00000020184
Q91ZX6	Senp2	99221	JUN	jun proto-oncogene	ENSG00000177606
Q91ZX6	Senp2	9064	RANGAP1	Ran GTPase activating protein 1	ENSG00000100401
Q91ZX6	Senp2	21462	PML	promyelocytic leukemia	ENSG00000140464
Q9CY58	Serbp1	180907	Prmt1	protein arginine N-methyltransferase 1	ENSMUSG000000052429
Q9CY58	Serbp1	161405	Prmt5	protein arginine N-methyltransferase 5	ENSMUSG00000023110
Q9CY58	Serbp1	160992	Lmna	lamin A	ENSMUSG00000028063
Q9D7D2	Serpina9	196509	Irf8	interferon regulatory factor 8	ENSMUSG000000041515
Q8VIJ6	Sfpq	98367	ELAVL4	ELAV (embryonic lethal, abnormal vision, Drosophila)-like	ENSG00000162374
Q8VIJ6	Sfpq	175322	G3bp1	Ras-GTPase-activating protein SH3-domain binding protei	ENSMUSG000000018583
Q8VIJ6	Sfpq	209747	Igf2bp1	insulin-like growth factor 2 mRNA binding protein 1	ENSMUSG000000013415
Q8VIJ6	Sfpq	171611	Hnrnp2	heterogeneous nuclear ribonucleoprotein H2	ENSMUSG000000045427
Q8VIJ6	Sfpq	206751	Ctr9	Ctr9, Paf1/RNA polymerase II complex component, homo	ENSMUSG00000005609
Q8VIJ6	Sfpq	141000	Smarca4	SWI/SNF related, matrix associated, actin dependent regu	ENSMUSG00000032187

Q8VIJ6	Sfpq	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
Q8VIJ6	Sfpq	155600	Smarca2	SWI/SNF related, matrix associated, actin dependent regul	ENSMUSG00000024921
P21841	Sftpc	183743	Nedd4	neurial precursor cell expressed, developmentally down-re	ENSMUSG00000032216
P21841	Sftpc	64029	Ubc	ubiquitin C	ENSG00000150991
P50404	Sftpd	38028	NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin	ENSG00000072736
Q9JUJ8	Sh3baryl	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q91X43	Sh3d19	132723	Sh3yl1	Sh3 domain YSC-like 1	ENSMUSG00000020669
Q69Z11	Sh3rf1	161456	Akt2	thymoma viral proto-oncogene 2	ENSMUSG00000004056
Q69Z11	Sh3rf1	30112	SIAH1	seven in absentia homolog 1 (Drosophila)	ENSG00000196470
Q69Z11	Sh3rf1	175760	Bnip3l	BCL2/adenovirus E1B interacting protein 3-like	ENSMUSG00000022051
Q69Z11	Sh3rf1	184437	Siah1b	seven in absentia 1B	ENSMUSG00000040749
Q69Z11	Sh3rf1	146539	Siah2	seven in absentia 2	ENSMUSG00000036432
Q69Z11	Sh3rf1	178087	Siah1a	seven in absentia 1A	ENSMUSG00000036840
Q69Z11	Sh3rf1	32209	RACGAP1	Rac GTPase activating protein 1	ENSG00000161800
Q69Z11	Sh3rf1	132706	Map3k11	mitogen-activated protein kinase kinase 11	ENSMUSG00000004054
Q8BMC3	Shc2	63979	ABI1	abl-interactor 1	ENSG00000136754
Q77PQ3	Shprh	14944	RAD18	RAD18 homolog (S. cerevisiae)	ENSG00000070950
Q77PQ3	Shprh	64029	Ubc	ubiquitin C	ENSG00000150991
Q77PQ3	Shprh	88504	POLH	polymerase (DNA directed), eta	ENSG00000170734
Q77PQ3	Shprh	60482	HLTF	helicase-like transcription factor	ENSG00000071794
Q77PQ3	Shprh	29209	POLK	polymerase (DNA directed) kappa	ENSG00000122008
Q61045	Sim1	172055	Hsp90aa1	heat shock protein 90, alpha (cytosolic), class A member	ENSMUSG00000021270
Q61045	Sim1	172688	Arnt	aryl hydrocarbon receptor nuclear translocator	ENSMUSG00000015522
Q61045	Sim1	102199	ARNT	aryl hydrocarbon receptor nuclear translocator	ENSG00000143437
Q61045	Sim1	25737	ARNT2	aryl-hydrocarbon receptor nuclear translocator 2	ENSG00000172379
P97797	Sirpa	187635	Ptpn6	protein tyrosine phosphatase, non-receptor type 6	ENSMUSG00000004266
P97797	Sirpa	165137	Cd47	CD47 antigen (Rh-related antigen, integrin-associated sig	ENSMUSG00000055447
P97797	Sirpa	164495	Shc1	src homology 2 domain-containing transforming protein C	ENSMUSG00000042626
P97797	Sirpa	196834	Ptpn11	protein tyrosine phosphatase, non-receptor type 11	ENSMUSG00000043733
P97797	Sirpa	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypep	ENSMUSG00000041417
P97797	Sirpa	175126	Ptk2b	PTK2 protein tyrosine kinase 2 beta	ENSMUSG00000059456
P97797	Sirpa	209950	Skap1	src family associated phosphoprotein 1	ENSMUSG00000057058
P97797	Sirpa	128115	Fyb	FYN binding protein	ENSMUSG00000022148
P97797	Sirpa	177258	Siglece	sialic acid binding Ig-like lectin E	ENSMUSG00000030474
P97797	Sirpa	159342	Dok1	docking protein 1	ENSMUSG000000068335
P97797	Sirpa	199566	Gab2	growth factor receptor bound protein 2-associated protein	ENSMUSG00000004508
P97797	Sirpa	162900	Btla	B and T lymphocyte associated	ENSMUSG00000052013
Q60698	Ski	131686	Gli3	GLI-Kruppel family member GLI3	ENSMUSG00000021318
Q60665	Skil	132962	Map3k7	mitogen-activated protein kinase kinase kinase 7	ENSMUSG00000028284
Q60665	Skil	201307	Ubc	ubiquitin C	ENSMUSG00000008348
Q60665	Skil	235293	CPNE1	copine I	ENSG00000214078
Q60665	Skil	56698	CPNE4	copine IV	ENSG00000196353
Q60665	Skil	213588	Smurf2	SMAD specific E3 ubiquitin protein ligase 2	ENSMUSG00000018363
Q60665	Skil	32962	CPNE2	copine II	ENSG00000140848
Q60665	Skil	171712	Pml	promyelocytic leukemia	ENSMUSG000000036986
Q60665	Skil	191036	Trp53	transformation related protein 53	ENSMUSG00000059552
Q924N4	Slc12a6	175590	Stk39	serine/threonine kinase 39, STE20/SPS1 homolog (yeast)	ENSMUSG00000027030
Q924N4	Slc12a6	204530	Oxsr1	oxidative-stress responsive 1	ENSMUSG00000036737
Q924N4	Slc12a6	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q9JIP7	Slc15a1	201437	Epcam	epithelial cell adhesion molecule	ENSMUSG000000045394
Q9JIP7	Slc15a1	179812	Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	ENSMUSG00000033161
Q9JIP7	Slc15a1	188705	Actr3	ARP3 actin-related protein 3 homolog (yeast)	ENSMUSG000000026341
Q9JIP7	Slc15a1	202513	Atp1b1	ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide	ENSMUSG00000026576
P51906	Slc1a1	185903	Hccs	holocytochrome c synthetase	ENSMUSG00000031352
P56564	Slc1a3	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor	ENSG00000145335
P48962	Slc25a4	96919	BCLAF1	BCL2-associated transcription factor 1	ENSG00000029363
P48962	Slc25a4	33127	ARL2BP	ADP-ribosylation factor-like 2 binding protein	ENSG00000102931
P51881	Slc25a5	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
Q8BTY2	Slc4a7	129229	Cftr	cystic fibrosis transmembrane conductance regulator hom	ENSMUSG00000041301
P63115	Slc7a10	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
P63115	Slc7a10	140475	Slc3a2	solute carrier family 3 (activators of dibasic and neutral a	ENSMUSG00000010095
Q80TR4	Slit1	188640	Ntn1	netrin 1	ENSMUSG00000020902
Q6P9Z1	Smarca3	201862	Smarca1	SWI/SNF related, matrix associated, actin dependent regul	ENSMUSG00000032481
Q6P9Z1	Smarca3	203632	Baz1b	bromodomain adjacent to zinc finger domain, 1B	ENSMUSG00000002748
Q6P9Z1	Smarca3	141000	Smarca4	SWI/SNF related, matrix associated, actin dependent regul	ENSMUSG000000032187
Q6P9Z1	Smarca3	155600	Smarca2	SWI/SNF related, matrix associated, actin dependent regul	ENSMUSG00000024921
Q6P9Z1	Smarca3	144501	Pbrm1	polybromo 1	ENSMUSG00000042323
Q6P9Z1	Smarca3	197552	Smarca2	SWI/SNF related, matrix associated, actin dependent regul	ENSMUSG00000025369
Q6P9Z1	Smarca3	164658	Rbpj	recombination signal binding protein for immunoglobulin	ENSMUSG00000039191
Q6P9Z1	Smarca3	157503	Smad4	MAD homolog 4 (Drosophila)	ENSMUSG000000024515
Q6P9Z1	Smarca3	172452	Gata4	GATA binding protein 4	ENSMUSG00000021944
Q6P9Z1	Smarca3	149571	Notch1	Notch gene homolog 1 (Drosophila)	ENSMUSG00000026923
Q6P9Z1	Smarca3	170516	Smad1	MAD homolog 1 (Drosophila)	ENSMUSG000000031681
Q9CU62	Smc1a	166501	Atrx	alpha thalassemia/mental retardation syndrome X-linked	ENSMUSG000000031229
Q9CU62	Smc1a	176737	Smc3	structural maintenance of chromosomes 3	ENSMUSG000000024974
Q9CU62	Smc1a	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG000000024406
Q9CU62	Smc1a	154983	Mecp2	methyl CpG binding protein 2	ENSMUSG000000031393
Q9CU62	Smc1a	183499	Sycp3	synaptonemal complex protein 3	ENSMUSG00000020059
Q8R570	Snap47	137550	Nova1	neuro-oncological ventral antigen 1	ENSMUSG00000021047
P62315	Snrpd1	14171	GEMIN4	gem (nuclear organelle) associated protein 4	ENSG00000179409
P62315	Snrpd1	26826	SMN1	survival of motor neuron 1, telomeric	ENSG00000172062
Q61234	Snta1	158412	Dmd	dystrophin, muscular dystrophy	ENSMUSG00000045103
Q61234	Snta1	26059	SCN5A	sodium channel, voltage-gated, type V, alpha subunit	ENSG00000183873
Q61234	Snta1	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG00000059923
Q61234	Snta1	193105	Atp2b4	ATPase, Ca ⁺⁺ transporting, plasma membrane 4	ENSMUSG00000026463
Q61234	Snta1	204746	Scn5a	sodium channel, voltage-gated, type V, alpha	ENSMUSG00000032511
Q61234	Snta1	194926	Nos1	nitric oxide synthase 1, neuronal	ENSMUSG00000029361
Q61234	Snta1	141842	Sntb1	syntrophin, basic 1	ENSMUSG00000060429
Q61234	Snta1	131149	Dtna	dystrobrevin alpha	ENSMUSG00000024302

Q61235	Sntb2	177819	Mast2	microtubule associated serine/threonine kinase 2	ENSMUSG00000003810
Q61235	Sntb2	175299	Mast1	microtubule associated serine/threonine kinase 1	ENSMUSG000000053693
Q61235	Sntb2	141842	Sntb1	synthrophin, basic 1	ENSMUSG000000060429
Q61235	Sntb2	133665	Utrn	utrophin	ENSMUSG000000019820
Q61235	Sntb2	158412	Dmd	dystrophin, muscular dystrophy	ENSMUSG000000045103
Q9CSN1	Snw1	168138	Daxx	Fas death domain-associated protein	ENSMUSG00000002307
Q9CSN1	Snw1	96746	PPIE	peptidylprolyl isomerase E (cyclophilin E)	ENSG000000084072
Q9CSN1	Snw1	85090	PP1L1	peptidylprolyl isomerase (cyclophilin)-like 1	ENSG000000137168
Q9CSN1	Snw1	23046	XAB2	XPA binding protein 2	ENSG000000076924
Q9CSN1	Snw1	61602	SNRNP200	small nuclear ribonucleoprotein 200kDa (U5)	ENSG000000144028
Q9CSN1	Snw1	63055	RSRC1	arginine/serine-rich coiled-coil 1	ENSG000000174891
Q9CSN1	Snw1	39136	HOMER3	homer homolog 3 (Drosophila)	ENSG000000051128
Q9CSN1	Snw1	54412	EFTUD2	elongation factor Tu GTP binding domain containing 2	ENSG000000108883
Q9CSN1	Snw1	58090	CRNKL1	crooked neck pre-mRNA splicing factor-like 1 (Drosophila)	ENSG000000101343
Q9CSN1	Snw1	159027	Nr0b1	nuclear receptor subfamily 0, group B, member 1	ENSMUSG000000025056
Q9CSN1	Snw1	31002	HOMER1	homer homolog 1 (Drosophila)	ENSG000000152413
Q9CSN1	Snw1	105992	SNRPE	small nuclear ribonucleoprotein polypeptide E	ENSG000000182004
Q9CSN1	Snw1	94274	SYF2	SYF2 homolog, RNA splicing factor (S. cerevisiae)	ENSG000000117614
Q9CSN1	Snw1	95411	SNRNP40	small nuclear ribonucleoprotein 40kDa (U5)	ENSG000000060688
Q9CSN1	Snw1	1817	GCFC1	GC-rich sequence DNA-binding factor 1	ENSG000000159086
Q9CSN1	Snw1	11833	DHX15	DEAH (Asp-Glu-Ala-His) box polypeptide 15	ENSG000000109606
Q9CSN1	Snw1	2890	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide 18kDa	ENSG000000100028
Q9CSN1	Snw1	89604	CDC5L	CDC5 cell division cycle 5-like (S. pombe)	ENSG000000096401
Q9CSN1	Snw1	15306	PRPF8	PRP8 pre-mRNA processing factor 8 homolog (S. cerevisiae)	ENSG000000174231
Q9CSN1	Snw1	34490	SAAL1	serum amyloid A-like 1	ENSG000000166788
Q9CSN1	Snw1	95222	CDC40	cell division cycle 40 homolog (S. cerevisiae)	ENSG000000168438
Q9CSN1	Snw1	42004	PLRG1	pleiotropic regulator 1	ENSG000000171566
Q9CSN1	Snw1	31038	CCDC12	coiled-coil domain containing 12	ENSG000000160799
Q9CSN1	Snw1	14100	SNW1	SNW domain containing 1	ENSG000000100603
Q9CSN1	Snw1	5692	AQR	aquarius homolog (mouse)	ENSG000000021776
Q9CSN1	Snw1	72393	C20orf4	chromosome 20 open reading frame 4	ENSG000000131043
Q9CSN1	Snw1	57903	SNRPD2	small nuclear ribonucleoprotein D2 polypeptide 16.5kDa	ENSG000000125743
Q9CSN1	Snw1	49436	PRPF19	PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae)	ENSG000000110107
Q9CSN1	Snw1	1426	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide 16kDa	ENSG000000167088
Q9CSN1	Snw1	68415	CWC15	CWC15 spliceosome-associated protein homolog (S. cerevisiae)	ENSG000000150316
Q9CSN1	Snw1	159441	Sirt1	sirtuin 1 (silent mating type information regulation 2, homolog 1)	ENSMUSG000000020063
Q9CSN1	Snw1	210842	Rara	retinoic acid receptor, alpha	ENSMUSG000000037992
O35717	Socs2	29281	EPOR	erythropoietin receptor	ENSG000000187266
O35717	Socs2	167734	Lepr	leptin receptor	ENSMUSG000000057722
O35717	Socs2	132667	Socs1	suppressor of cytokine signaling 1	ENSMUSG000000038037
O35717	Socs2	197065	Cish	cytokine inducible SH2-containing protein	ENSMUSG000000032578
O35717	Socs2	10956	TCEB2	transcription elongation factor B (SIII), polypeptide 2 (18kDa)	ENSG000000103363
O35717	Socs2	166023	Cul5	cullin 5	ENSMUSG000000032030
O35717	Socs2	25766	TCEB1	transcription elongation factor B (SIII), polypeptide 1 (15kDa)	ENSG000000154582
Q3UTJ2	Sorbs2	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG000000020849
P48432	Sox2	143980	Hdac2	histone deacetylase 2	ENSMUSG000000019777
P48432	Sox2	191058	Hdac1	histone deacetylase 1	ENSMUSG000000028800
P48432	Sox2	169269	Sin3a	transcriptional regulator, SIN3A (yeast)	ENSMUSG000000042557
P48432	Sox2	168721	Xpo4	exportin 4	ENSMUSG000000021952
P48432	Sox2	192631	Alx4	aristaless-like homeobox 4	ENSMUSG000000040310
P48432	Sox2	205243	Ctnnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
P48432	Sox2	179250	Erq	avian erythroblastosis virus E-26 (v-ets) oncogene related protein 1	ENSMUSG000000040732
P48432	Sox2	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG000000024406
P48432	Sox2	151396	Ube2i	ubiquitin-conjugating enzyme E2I	ENSMUSG000000015120
P48432	Sox2	185735	Nanog	Nanog homeobox	ENSMUSG000000012396
P48432	Sox2	146412	Sae1	SUMO1 activating enzyme subunit 1	ENSMUSG000000052833
P48432	Sox2	201307	Ubc	ubiquitin C	ENSMUSG000000008348
P48432	Sox2	194974	Pax6	paired box gene 6	ENSMUSG000000027168
P48432	Sox2	173092	Uba2	ubiquitin-like modifier activating enzyme 2	ENSMUSG000000052997
P48432	Sox2	151490	Max	Max protein	ENSMUSG000000059436
P48432	Sox2	175693	Smad3	MAD homolog 3 (Drosophila)	ENSMUSG000000032402
P48432	Sox2	207372	Lefty1	left right determination factor 1	ENSMUSG000000038793
P48432	Sox2	170258	Xpc	xeroderma pigmentosum, complementation group C	ENSMUSG000000030094
P48432	Sox2	151407	Cetn2	centrin 2	ENSMUSG000000031347
P48432	Sox2	148611	Rad23b	RAD23b homolog (S. cerevisiae)	ENSMUSG000000028426
Q9JM73	Srf	166203	Sreb2	sterol regulatory element binding factor 2	ENSMUSG000000022463
Q9JM73	Srf	149514	Six5	sine oculis-related homeobox 5 homolog (Drosophila)	ENSMUSG000000040841
Q9JM73	Srf	182872	Elf1	E74-like factor 1	ENSMUSG000000036461
Q9JM73	Srf	136414	Egr1	early growth response 1	ENSMUSG000000038418
Q9JM73	Srf	47191	EGR1	early growth response 1	ENSG000000120738
Q9JM73	Srf	68724	NCOA6	nuclear receptor coactivator 6	ENSG000000198646
Q9JM73	Srf	127970	Epc1	enhancer of polycomb homolog 1 (Drosophila)	ENSMUSG000000024240
O54781	Srp2	60601	SRSF1	serine/arginine-rich splicing factor 1	ENSG000000136450
O08943	Ssrp1	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG000000024406
P30873	Sstr1	193317	Dlg4	discs, large homolog 4 (Drosophila)	ENSMUSG000000020886
P30873	Sstr1	198905	Dlg2	discs, large homolog 2 (Drosophila)	ENSMUSG000000052572
Q64687	St8sia1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG000000028717
Q9WWL2	Stat2	189118	Ndel1	nuclear distribution gene E-like homolog 1 (A. nidulans)	ENSMUSG000000018736
Q9WWL2	Stat2	183285	Cops4	COP9 (constitutive photomorphogenic) homolog, subunit 4	ENSMUSG000000035297
Q9WWL2	Stat2	164579	Irf9	interferon regulatory factor 9	ENSMUSG000000002325
Q9WWL2	Stat2	192256	Cand1	cullin associated and neddylation disassociated 1	ENSMUSG000000020114
Q9WWL2	Stat2	214627	Cytl1	cytohesin 1	ENSMUSG000000017132
Q9WWL2	Stat2	180303	Appl2	adaptor protein, phosphotyrosine interaction, PH domain containing 2	ENSMUSG000000020263
Q9WWL2	Stat2	194486	Stx12	syntaxin 12	ENSMUSG000000028879
Q9WWL2	Stat2	193577	Bcar1	breast cancer anti-estrogen resistance 1	ENSMUSG000000031955
Q9WWL2	Stat2	144730	Ssna1	Sioqren's syndrome nuclear autoantigen 1	ENSMUSG000000026966
Q9WWL2	Stat2	171841	Septin8	septin 8	ENSMUSG000000018398
Q9WWL2	Stat2	168462	Rcn2	reticulocalbin 2	ENSMUSG000000032320
Q9WWL2	Stat2	606500	Purb	purine rich element binding protein B	ENSMUSG000000091207

Q9WVL2	Stat2	203055	Pdcd6ip	programmed cell death 6 interacting protein	ENSMUSG00000032504
Q9WVL2	Stat2	163345	Zfp36	zinc finger protein 36	ENSMUSG00000044786
Q9WVL2	Stat2	44867	EIF2AK2	eukaryotic translation initiation factor 2-alpha kinase 2	ENSG00000055332
Q9WVL2	Stat2	164782	Ep300	E1A binding protein p300	ENSMUSG00000055024
Q9WVL2	Stat2	153162	Stat1	signal transducer and activator of transcription 1	ENSMUSG00000026104
Q9WVL2	Stat2	179916	Cxcl10	chemokine (C-X-C motif) ligand 10	ENSMUSG00000034855
Q9WVL2	Stat2	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG00000004040
Q9WVL2	Stat2	164791	Adar	adenosine deaminase, RNA-specific	ENSMUSG00000027951
Q9WVL2	Stat2	191036	Trp53	transformation related protein 53	ENSMUSG00000059552
Q9WVL2	Stat2	8992	EP300	E1A binding protein p300	ENSG00000100393
Q9WVL2	Stat2	195818	Tlr9	toll-like receptor 9	ENSMUSG00000045322
Q9WVL2	Stat2	195445	Nfkb1	nuclear factor of kappa light polypeptide gene enhancer in	ENSMUSG00000028163
Q9WVL2	Stat2	202909	Trim21	tripartite motif-containing 21	ENSMUSG00000030966
Q9WVL2	Stat2	170616	Tap1	transporter 1, ATP-binding cassette, sub-family B (MDR/T	ENSMUSG00000037321
Q9WVL2	Stat2	171492	Il15	interleukin 15	ENSMUSG00000031712
Q9WVL2	Stat2	197330	Gbp2	guanylate binding protein 2	ENSMUSG00000028270
Q9WVL2	Stat2	131701	Cmpk2	cytidine monophosphate (UMP-CMP) kinase 2, mitochondri	ENSMUSG00000020638
Q9WVL2	Stat2	262893	Ifi47	interferon gamma inducible protein 47	ENSMUSG00000078920
Q9WVL2	Stat2	182249	Dusp28	dual specificity phosphatase 28	ENSMUSG00000047067
Q9WVL2	Stat2	131692	Tcea1	transcription elongation factor A (SII) 1	ENSMUSG00000033813
Q9WVL2	Stat2	157249	Cd274	CD274 antigen	ENSMUSG00000016496
Q9WVL2	Stat2	214638	Lgals3bp	lectin, galactoside-binding, soluble, 3 binding protein	ENSMUSG00000033880
Q9WVL2	Stat2	196676	Oas1a	2'-5' oligoadenylate synthetase 1A	ENSMUSG00000052776
Q9WVL2	Stat2	196543	Oas1b	2'-5' oligoadenylate synthetase 1B	ENSMUSG00000029605
Q9WVL2	Stat2	212081	Irf7	interferon regulatory factor 7	ENSMUSG00000025498
Q9WTK7	Stk11	64029	UBC	ubiquitin C	ENSG00000150991
Q9WTK7	Stk11	171698	Stk11ip	serine/threonine kinase 11 interacting protein	ENSMUSG00000026213
Q9WTK7	Stk11	191855	Nuak2	NUAK family, SNF1-like kinase, 2	ENSMUSG00000009772
O55106	Strn	86408	MST4	Serine/threonine-protein kinase MST4	ENSG00000134602
O55106	Strn	1301	CCT8	chaperonin containing TCP1, subunit 8 (theta)	ENSG00000156261
O55106	Strn	101319	SIKE1	suppressor of IKBKE 1	ENSG00000052723
O55106	Strn	64018	PDCD10	programmed cell death 10	ENSG00000114209
O55106	Strn	17442	CCT6A	chaperonin containing TCP1, subunit 6A (zeta 1)	ENSG00000146731
O55106	Strn	53426	CCT4	chaperonin containing TCP1, subunit 4 (delta)	ENSG00000115484
O55106	Strn	41431	SLMAP	sarcolemma associated protein	ENSG00000163681
O55106	Strn	40853	CCT6B	chaperonin containing TCP1, subunit 6B (zeta 2)	ENSG00000132141
O55106	Strn	37897	CTTNBP2	cortactin binding protein 2	ENSG00000077063
O55106	Strn	58963	STRN4	striatin, calmodulin binding protein 4	ENSG00000090372
O55106	Strn	47181	CCT2	chaperonin containing TCP1, subunit 2 (beta)	ENSG00000166226
O55106	Strn	101107	CTTNBP2NL	CTTNBP2 N-terminal like	ENSG00000143079
O55106	Strn	70936	PPP2R1B	protein phosphatase 2, regulatory subunit A, beta	ENSG00000137713
O55106	Strn	4317	STRN3	striatin, calmodulin binding protein 3	ENSG00000196792
O55106	Strn	78011	MOB4	MOB family member 4, phocein	ENSG00000115540
O55106	Strn	66700	PPP2R1A	protein phosphatase 2, regulatory subunit A, alpha	ENSG00000105568
O55106	Strn	103469	CCT3	chaperonin containing TCP1, subunit 3 (gamma)	ENSG00000163468
O55106	Strn	85164	STK25	serine/threonine kinase 25	ENSG00000115694
O55106	Strn	44849	STK24	serine/threonine kinase 24	ENSG00000102572
O55106	Strn	56424	CCT7	chaperonin containing TCP1, subunit 7 (eta)	ENSG00000135624
O55106	Strn	24333	FGFR1OP2	FGFR1 oncogene partner 2	ENSG00000111790
O55106	Strn	44693	PPP2CA	protein phosphatase 2, catalytic subunit, alpha isozyme	ENSG00000113575
O55106	Strn	98570	TCP1	t-complex 1	ENSG00000120438
O55106	Strn	12328	CCT5	chaperonin containing TCP1, subunit 5 (epsilon)	ENSG00000150753
O55106	Strn	100940	FAM40A	family with sequence similarity 40, member A	ENSG00000143093
O55106	Strn	40839	FAM40B	family with sequence similarity 40, member B	ENSG00000128578
O35526	Stx1a	207465	Chgb	chromogranin B	ENSMUSG000000027350
O35526	Stx1a	165906	Chqa	chromogranin A	ENSMUSG00000021194
O35526	Stx1a	1609	SOD1	superoxide dismutase 1, soluble	ENSG00000142168
O35526	Stx1a	194117	Syt2	synaptotagmin II	ENSMUSG00000026452
O35526	Stx1a	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG00000027273
O35526	Stx1a	207019	Cltc	clathrin, heavy polypeptide (Hc)	ENSMUSG000000047126
O35526	Stx1a	175573	Gria1	glutamate receptor, ionotropic, AMPA1 (alpha 1)	ENSMUSG00000020524
O35526	Stx1a	193317	Dlq4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
O35526	Stx1a	150657	Camk2a	calcium/calmodulin-dependent protein kinase II alpha	ENSMUSG00000024617
O35526	Stx1a	210393	Stx1b	syntaxin 1B	ENSMUSG00000030806
O35526	Stx1a	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor	ENSG00000145335
O35526	Stx1a	137748	Kcnma1	potassium large conductance calcium-activated channel, s	ENSMUSG00000063142
O35526	Stx1a	159551	Dnm1	dynamitin 1	ENSMUSG00000026825
O35526	Stx1a	161623	Stxbp1	syntaxin binding protein 1	ENSMUSG00000026797
O35526	Stx1a	189759	Vamp2	vesicle-associated membrane protein 2	ENSMUSG00000020894
O35526	Stx1a	129240	Syp	synaptophysin	ENSMUSG000000031144
O35526	Stx1a	170932	Atp4a	ATPase, H+/K+ exchanging, gastric, alpha polypeptide	ENSMUSG00000005553
O35526	Stx1a	179812	Atp1a1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	ENSMUSG00000033161
O35526	Stx1a	156172	Atp1a3	ATPase, Na+/K+ transporting, alpha 3 polypeptide	ENSMUSG000000040907
O35526	Stx1a	205352	Atp1a2	ATPase, Na+/K+ transporting, alpha 2 polypeptide	ENSMUSG00000007097
O35526	Stx1a	147527	Slc30a3	solute carrier family 30 (zinc transporter), member 3	ENSMUSG000000029151
O35526	Stx1a	187917	Atp6v0d1	ATPase, H+ transporting, lysosomal V0 subunit D1	ENSMUSG00000013160
O35526	Stx1a	181138	Gnao1	guanine nucleotide binding protein, alpha O	ENSMUSG00000031748
O35526	Stx1a	207606	Gnb1	guanine nucleotide binding protein (G protein), beta 1	ENSMUSG00000029064
O35526	Stx1a	188200	Gnb3	guanine nucleotide binding protein (G protein), beta 3	ENSMUSG00000023439
O35526	Stx1a	209032	Napb	N-ethylmaleimide sensitive fusion protein attachment pro	ENSMUSG000000027438
O35526	Stx1a	155754	Gpm6a	glycoprotein m6a	ENSMUSG00000031517
O35526	Stx1a	138466	Stx7	syntaxin 7	ENSMUSG00000019998
O35526	Stx1a	201307	Ubc	ubiquitin C	ENSMUSG000000008348
O35526	Stx1a	152558	Snca	synuclein, alpha	ENSMUSG000000025889
O35526	Stx1a	206436	Vps16	vacuolar protein sorting 16 (yeast)	ENSMUSG000000027411
O35526	Stx1a	213066	Nsf	N-ethylmaleimide sensitive fusion protein	ENSMUSG00000034187
O35526	Stx1a	27257	LRRK2	leucine-rich repeat kinase 2	ENSG00000188906
O35526	Stx1a	175625	Lrrk2	leucine-rich repeat kinase 2	ENSMUSG000000036273
P61264	Stx1b	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG00000027273

P61264	Stx1b	203389	Stx1a	syntaxin 1A (brain)	ENSMUSG00000007207
P61264	Stx1b	207019	Cltc	clathrin, heavy polypeptide (Hc)	ENSMUSG000000047126
P61264	Stx1b	175573	Gria1	glutamate receptor, ionotropic, AMPA1 (alpha 1)	ENSMUSG00000020524
P61264	Stx1b	193317	Dlq4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
P61264	Stx1b	150657	Camk2a	calcium/calmodulin-dependent protein kinase II alpha	ENSMUSG00000024617
P61264	Stx1b	189759	Vamp2	vesicle-associated membrane protein 2	ENSMUSG00000020894
P61264	Stx1b	159551	Dnm1	dynamitin 1	ENSMUSG00000026825
P61264	Stx1b	129240	Syp	synaptophysin	ENSMUSG00000031144
P61264	Stx1b	170932	Atp4a	ATPase, H+/K+ exchanging, gastric, alpha polypeptide	ENSMUSG00000005553
P61264	Stx1b	179812	Atp1a1	ATPase, Na+/K+ transporting, alpha 1 polypeptide	ENSMUSG00000033161
P61264	Stx1b	156172	Atp1a3	ATPase, Na+/K+ transporting, alpha 3 polypeptide	ENSMUSG00000040907
P61264	Stx1b	205352	Atp1a2	ATPase, Na+/K+ transporting, alpha 2 polypeptide	ENSMUSG00000007097
P61264	Stx1b	147527	Slc30a3	solute carrier family 30 (zinc transporter), member 3	ENSMUSG00000029151
P61264	Stx1b	187917	Atp6v0d1	ATPase, H+ transporting, lysosomal V0 subunit D1	ENSMUSG00000013160
P61264	Stx1b	181138	Gnao1	guanine nucleotide binding protein, alpha O	ENSMUSG00000031748
P61264	Stx1b	207606	Gnb1	guanine nucleotide binding protein (G protein), beta 1	ENSMUSG00000029064
P61264	Stx1b	188200	Gnb3	guanine nucleotide binding protein (G protein), beta 3	ENSMUSG00000023439
P61264	Stx1b	209032	Napb	N-ethylmaleimide sensitive fusion protein attachment protein	ENSMUSG00000027438
P61264	Stx1b	155754	Gpm6a	glycoprotein m6a	ENSMUSG00000031517
P61264	Stx1b	138466	Stx7	syntaxin 7	ENSMUSG00000019998
P61264	Stx1b	174739	Sv2a	synaptic vesicle glycoprotein 2 a	ENSMUSG00000038486
P61264	Stx1b	205183	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	ENSMUSG00000035152
P61264	Stx1b	180315	Ap2a1	adaptor protein complex AP-2, alpha 1 subunit	ENSMUSG00000060279
P61264	Stx1b	143791	Ap1b1	adaptor protein complex AP-1, beta 1 subunit	ENSMUSG00000009090
P61264	Stx1b	135538	Syn1	synapsin I	ENSMUSG00000037217
P61264	Stx1b	189699	Snap91	synaptosomal-associated protein 91	ENSMUSG00000033419
P61264	Stx1b	213066	Nsf	N-ethylmaleimide sensitive fusion protein	ENSMUSG00000034187
P61264	Stx1b	27257	LRRK2	leucine-rich repeat kinase 2	ENSG00000188906
P61264	Stx1b	159493	Acta2	actin, alpha 2, smooth muscle, aorta	ENSMUSG00000035783
P61264	Stx1b	132306	Cadps	Ca2+-dependent secretion activator	ENSMUSG00000054423
Q64332	Syn2	146219	Pfn2	profilin 2	ENSMUSG00000027805
Q64332	Syn2	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
P46096	Syt1	22989	SCAMP5	secretory carrier membrane protein 5	ENSG00000198794
P46096	Syt1	194117	Syt2	synaptotagmin II	ENSMUSG00000026452
P46096	Syt1	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG000000043091
P46096	Syt1	211715	Atp6v0a1	ATPase, H+ transporting, lysosomal V0 subunit A1	ENSMUSG00000019302
P46096	Syt1	163852	Calm1	calmodulin 1	ENSMUSG00000001175
P46096	Syt1	155394	Thy1	thymus cell antigen 1, theta	ENSMUSG000000032011
P46096	Syt1	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG00000027273
P46096	Syt1	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
P46096	Syt1	186203	Gnat2	guanine nucleotide binding protein, alpha transducing 2	ENSMUSG00000009108
P46096	Syt1	193462	Slc1a2	solute carrier family 1 (glial high affinity glutamate transporter)	ENSMUSG00000005089
P46096	Syt1	144350	Tubb2c	tubulin, beta 2C	ENSMUSG00000036752
P46096	Syt1	189759	Vamp2	vesicle-associated membrane protein 2	ENSMUSG00000020894
P46096	Syt1	129240	Syp	synaptophysin	ENSMUSG00000031144
P46096	Syt1	177962	Pip5k1c	phosphatidylinositol-4-phosphate 5-kinase, type 1 gamma	ENSMUSG00000034902
Q9R0N4	Syt10	181512	Syt6	synaptotagmin VI	ENSMUSG00000027849
Q9R0N4	Syt10	178707	Syt3	synaptotagmin III	ENSMUSG00000030731
Q9R0N4	Syt10	205388	Syt9	synaptotagmin IX	ENSMUSG00000062542
Q9R0Q1	Syt4	167493	Rab8a	RAB8A, member RAS oncogene family	ENSMUSG00000003037
Q9R0Q1	Syt4	164008	Rab3a	RAB3A, member RAS oncogene family	ENSMUSG00000031840
Q9R0Q1	Syt4	184264	Rab27a	RAB27A, member RAS oncogene family	ENSMUSG00000032202
Q9R0Q1	Syt4	156998	Rab27b	RAB27B, member RAS oncogene family	ENSMUSG00000024511
Q8R2K4	Taf6l	211539	Kat2a	K(lysine) acetyltransferase 2A	ENSMUSG00000020918
Q8R2K4	Taf6l	205939	Tada2a	transcriptional adaptor 2A	ENSMUSG00000018651
Q8R2K4	Taf6l	132631	Atxn7	ataxin 7	ENSMUSG00000021738
Q8R2K4	Taf6l	134374	Atxn7l1	ataxin 7-like 1	ENSMUSG00000020564
Q8R2K4	Taf6l	212566	Atxn7l3	ataxin 7-like 3	ENSMUSG00000059995
Q8R2K4	Taf6l	208472	Csrp2bp	cysteine and glycine-rich protein 2 binding protein	ENSMUSG00000027425
Q8R2K4	Taf6l	141131	Mbpip	MAP3K12 binding inhibitory protein 1	ENSMUSG00000021028
Q8R2K4	Taf6l	210500	Med1	mediator complex subunit 1	ENSMUSG00000018160
Q8R2K4	Taf6l	253359	Med12	mediator of RNA polymerase II transcription, subunit 12 H	ENSMUSG00000079487
Q8R2K4	Taf6l	206853	Med13	mediator complex subunit 13	ENSMUSG00000034297
Q8R2K4	Taf6l	132282	Med14	mediator complex subunit 14	ENSMUSG00000064127
Q8R2K4	Taf6l	139947	Med15	mediator complex subunit 15	ENSMUSG00000012114
Q8R2K4	Taf6l	171451	Med16	mediator complex subunit 16	ENSMUSG00000013833
Q8R2K4	Taf6l	135069	Med17	mediator complex subunit 17	ENSMUSG00000031935
Q8R2K4	Taf6l	194008	Med18	mediator of RNA polymerase II transcription, subunit 18 H	ENSMUSG00000066042
Q8R2K4	Taf6l	198395	Med21	mediator complex subunit 21	ENSMUSG00000030291
Q8R2K4	Taf6l	139123	Med23	mediator complex subunit 23	ENSMUSG00000019984
Q8R2K4	Taf6l	210636	Med24	mediator complex subunit 24	ENSMUSG00000017210
Q8R2K4	Taf6l	168279	Med26	mediator complex subunit 26	ENSMUSG00000045248
Q8R2K4	Taf6l	153778	Med27	mediator complex subunit 27	ENSMUSG00000026799
Q8R2K4	Taf6l	162461	Med28	mediator of RNA polymerase II transcription, subunit 28 H	ENSMUSG00000015804
Q8R2K4	Taf6l	196398	Med31	mediator of RNA polymerase II transcription, subunit 31 H	ENSMUSG00000020801
Q8R2K4	Taf6l	180055	Med4	mediator of RNA polymerase II transcription, subunit 4 H	ENSMUSG00000022109
Q8R2K4	Taf6l	154516	Med6	mediator of RNA polymerase II transcription, subunit 6 H	ENSMUSG00000002679
Q8R2K4	Taf6l	181342	Med8	mediator of RNA polymerase II transcription, subunit 8 H	ENSMUSG00000006392
Q8R2K4	Taf6l	187799	Dr1	down-regulator of transcription 1	ENSMUSG00000029265
Q8R2K4	Taf6l	191826	Polr2a	polymerase (RNA) II (DNA directed) polypeptide A	ENSMUSG00000005198
Q8R2K4	Taf6l	174132	Polr2b	polymerase (RNA) II (DNA directed) polypeptide B	ENSMUSG00000029250
Q8R2K4	Taf6l	209697	Ccdc101	coiled-coil domain containing 101	ENSMUSG00000030714
Q8R2K4	Taf6l	209007	Spata20	spermatogenesis associated 20	ENSMUSG00000020867
Q8R2K4	Taf6l	207998	Sptlc3	serine palmitoyltransferase, long chain base subunit 3	ENSMUSG00000039092
Q8R2K4	Taf6l	203046	Tada1	transcriptional adaptor 1	ENSMUSG00000026563
Q8R2K4	Taf6l	176433	Tada3	transcriptional adaptor 3	ENSMUSG00000048930
Q8R2K4	Taf6l	204983	Taf10	TAF10 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG000000043866
Q8R2K4	Taf6l	193751	Taf12	TAF12 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG00000028899
Q8R2K4	Taf6l	199943	Taf5l	TAF5-like RNA polymerase II, p300/CBP-associated factor	ENSMUSG00000038697

Q8R2K4	Taf6l	178346	Taf9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-	ENSMUSG00000052293
Q8R2K4	Taf6l	208186	Tirrap	transformation/transcription domain-associated protein	ENSMUSG00000045482
Q8R2K4	Taf6l	182297	Usp22	ubiquitin specific peptidase 22	ENSMUSG00000042506
Q8R2K4	Taf6l	151154	Wdr5	WD repeat domain 5	ENSMUSG00000026917
Q8R2K4	Taf6l	143426	Yeats2	YEATS domain containing 2	ENSMUSG00000041215
Q8R2K4	Taf6l	200277	Zzz3	zinc finger, ZZ domain containing 3	ENSMUSG00000039068
Q8R2K4	Taf6l	186515	Atxn7l2	ataxin 7-like 2	ENSMUSG00000048997
Q8R2K4	Taf6l	606312	Med20	mediator complex subunit 20	ENSMUSG00000092558
P37804	Tagln	175693	Smad3	MAD homolog 3 (Drosophila)	ENSMUSG00000032402
Q8VD31	Tappbp	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q3UKC1	Tax1bp1	164495	Shc1	src homology 2 domain-containing transforming protein C	ENSMUSG00000042626
Q3UKC1	Tax1bp1	210517	Itch	itchy, E3 ubiquitin protein ligase	ENSMUSG00000027598
Q3UKC1	Tax1bp1	195143	Ralbp1	ralA binding protein 1	ENSMUSG00000024096
Q3UKC1	Tax1bp1	135792	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	ENSMUSG00000019850
Q3UKC1	Tax1bp1	174575	Rnf11	ring finger protein 11	ENSMUSG00000028557
Q3UKC1	Tax1bp1	193222	Traf6	TNF receptor-associated factor 6	ENSMUSG00000027164
Q3UKC1	Tax1bp1	146254	Traf2	TNF receptor-associated factor 2	ENSMUSG00000026942
Q3UKC1	Tax1bp1	187167	Ube2n	ubiquitin-conjugating enzyme E2N	ENSMUSG00000074781
Q3UKC1	Tax1bp1	269073	Ube2d3	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, y	ENSMUSG00000078578
Q3UKC1	Tax1bp1	169132	Chuk	conserved helix-loop-helix ubiquitous kinase	ENSMUSG00000025199
O70306	Tbx15	161051	Tlx3	T-cell leukemia, homeobox 3	ENSMUSG00000040610
P70326	Tbx5	203632	Baz1b	bromodomain adjacent to zinc finger domain, 1B	ENSMUSG00000002748
P70326	Tbx5	141000	Smarca4	SWI/SNF related, matrix associated, actin dependent regu	ENSMUSG00000032187
Q61286	Tcf12	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q61286	Tcf12	131550	Id2	inhibitor of DNA binding 2	ENSMUSG00000020644
Q61286	Tcf12	209844	Id1	inhibitor of DNA binding 1	ENSMUSG00000042745
Q61286	Tcf12	197682	Id3	inhibitor of DNA binding 3	ENSMUSG00000007872
Q61286	Tcf12	175912	Hand1	heart and neural crest derivatives expressed transcript 1	ENSMUSG00000037335
Q61286	Tcf12	197911	Cbfa2t3	core-binding factor, runt domain, alpha subunit 2, translo	ENSMUSG00000006362
Q921J1	Tcf7l1	163730	Traf1	TNF receptor-associated factor 1	ENSMUSG00000026875
Q921J1	Tcf7l1	94257	RUNX3	runt-related transcription factor 3	ENSG00000020633
Q921J1	Tcf7l1	197682	Id3	inhibitor of DNA binding 3	ENSMUSG00000007872
P48301	Tead2	146013	Wwtr1	WW domain containing transcription regulator 1	ENSMUSG00000027803
P48301	Tead2	159280	Mpdz	multiple PDZ domain protein	ENSMUSG00000028402
P48301	Tead2	133275	Yap1	yes-associated protein 1	ENSMUSG00000053110
Q62296	Tead4	210153	Tbx21	T-box 21	ENSMUSG00000014444
Q62296	Tead4	146013	Wwtr1	WW domain containing transcription regulator 1	ENSMUSG00000027803
Q62296	Tead4	133275	Yap1	yes-associated protein 1	ENSMUSG00000053110
Q02858	Tek	210622	Grb7	growth factor receptor bound protein 7	ENSMUSG00000019312
Q02858	Tek	179481	Dok2	docking protein 2	ENSMUSG00000022102
Q02858	Tek	174439	Grb14	growth factor receptor bound protein 14	ENSMUSG00000026888
Q02858	Tek	137812	Anqpt1	angiopoietin 1	ENSMUSG00000022309
Q02858	Tek	137356	Anqpt2	angiopoietin 2	ENSMUSG00000031465
Q02858	Tek	211637	Stat3	signal transducer and activator of transcription 3	ENSMUSG00000004040
Q02858	Tek	46213	GRB7	growth factor receptor-bound protein 7	ENSG00000141738
Q02858	Tek	68262	GRB2	growth factor receptor-bound protein 2	ENSG00000177885
Q02858	Tek	25037	PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)	ENSG00000145675
Q02858	Tek	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG00000059923
Q02858	Tek	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypep	ENSMUSG00000041417
Q02858	Tek	196834	Ptpn11	protein tyrosine phosphatase, non-receptor type 11	ENSMUSG00000043733
Q02858	Tek	186824	Cbfb	core binding factor beta	ENSMUSG00000031885
Q02858	Tek	182846	Dok4	docking protein 4	ENSMUSG00000040631
Q9DC40	Telo2	204403	Mtor	mechanistic target of rapamycin (serine/threonine kinase)	ENSMUSG00000028991
Q9DC40	Telo2	165511	Atm	ataxia telangiectasia mutated homolog (human)	ENSMUSG00000034218
O70372	Tert	144556	Myc	myelocytomatosis oncogene	ENSMUSG000000022346
O70372	Tert	190689	Nfat5	nuclear factor of activated T-cells 5	ENSMUSG00000003847
O70372	Tert	201307	Ubc	ubiquitin C	ENSMUSG00000008348
O70372	Tert	173010	Pinx1	PIN2/TERF1 interacting, telomerase inhibitor 1	ENSMUSG00000021958
P40630	Tfam	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor	ENSG00000145335
Q62219	Tgfb11	37147	PTK2	PTK2 protein tyrosine kinase 2	ENSG00000169398
Q62219	Tgfb11	11161	SLC6A3	solute carrier family 6 (neurotransmitter transporter, dopa	ENSG00000142319
Q62219	Tgfb11	161051	Tlx3	T-cell leukemia, homeobox 3	ENSMUSG00000040610
Q62219	Tgfb11	201554	Git1	G protein-coupled receptor kinase-interactor 1	ENSMUSG00000011877
Q62312	Tgfb2	189923	Nfya	nuclear transcription factor-Y alpha	ENSMUSG00000023994
Q62312	Tgfb2	164495	Shc1	src homology 2 domain-containing transforming protein C	ENSMUSG00000042626
Q62312	Tgfb2	185502	Acvrl1	activin A receptor, type II-like 1	ENSMUSG00000000530
Q62312	Tgfb2	185038	Cdh5	cadherin 5	ENSMUSG00000031871
Q62312	Tgfb2	160783	Enq	endoglin	ENSMUSG00000026814
Q62312	Tgfb2	146050	Tgfb1	transforming growth factor, beta receptor I	ENSMUSG00000007613
Q62312	Tgfb2	132962	Map3k7	mitogen-activated protein kinase kinase kinase 7	ENSMUSG00000028284
Q62312	Tgfb2	40102	TRAF6	TNF receptor-associated factor 6	ENSG00000175104
Q62312	Tgfb2	194461	Elf3	E74-like factor 3	ENSMUSG00000003051
Q62312	Tgfb2	159220	Nes	nestin	ENSMUSG00000004891
Q62312	Tgfb2	192095	Cntn2	contactin 2	ENSMUSG00000053024
Q62312	Tgfb2	158292	Tgfb1	transforming growth factor, beta 1	ENSMUSG00000002603
Q62314	Tgln1	1609	SOD1	superoxide dismutase 1, soluble	ENSG00000142168
P35441	Thbs1	134620	Dmtf1	cyclin D binding myb-like transcription factor 1	ENSMUSG00000042508
P35441	Thbs1	138710	Thbs2	thrombospondin 2	ENSMUSG00000023885
Q06806	Tie1	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypep	ENSMUSG00000041417
Q90XY1	Tjp3	150373	Cldn1	claudin 1	ENSMUSG000000022512
Q90XY1	Tjp3	212780	Gjc1	gap junction protein, gamma 1	ENSMUSG00000034520
Q08122	Tle3	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q6R5P0	Tlr11	196509	Irf8	interferon regulatory factor 8	ENSMUSG00000041515
Q6R5P0	Tlr11	194461	Elf3	E74-like factor 3	ENSMUSG00000003051
Q6R5P0	Tlr11	193807	Ehf	ets homologous factor	ENSMUSG00000012350
Q61033	Tmpo	617	LAMA1	laminin, alpha 1	ENSG00000101680
Q61033	Tmpo	165010	Gmcl1	germ cell-less homolog 1 (Drosophila)	ENSMUSG00000001157
Q9D2E2	Toe1	185563	Aicda	activation-induced cytidine deaminase	ENSMUSG00000040627
Q9D2E2	Toe1	148105	Wdfy4	WD repeat and FYVE domain containing 4	ENSMUSG00000051506

Q9D2E2	Toe1	198150	Fam129a	family with sequence similarity 129, member A	ENSMUSG00000026483
Q9D2E2	Toe1	149105	Sympk	symplekin	ENSMUSG00000023118
Q9D2E2	Toe1	171593	Dync1h1	dynein cytoplasmic 1 heavy chain 1	ENSMUSG00000018707
Q9D2E2	Toe1	129626	Pdia6	protein disulfide isomerase associated 6	ENSMUSG00000020571
Q9D2E2	Toe1	134704	Mre11a	meiotic recombination 11 homolog A (S. cerevisiae)	ENSMUSG00000031928
Q9D2E2	Toe1	194403	Ddx47	DEAD (Asp-Glu-Ala-Asp) box polypeptide 47	ENSMUSG00000030204
Q9D2E2	Toe1	214390	Galk1	galactokinase 1	ENSMUSG00000020766
Q9D2E2	Toe1	176026	Rpl4	ribosomal protein L4	ENSMUSG00000032399
Q9D2E2	Toe1	142542	Serpinb1a	serine (or cysteine) peptidase inhibitor, clade B, member	ENSMUSG00000044734
Q9CZW5	Tomm70a	145251	Pdpk1	3-phosphoinositide dependent protein kinase 1	ENSMUSG00000024122
Q9CZW5	Tomm70a	197148	Rgs13	regulator of G-protein signaling 13	ENSMUSG00000051079
O70157	Top3a	8521	RPA3	replication protein A3, 14kDa	ENSG00000106399
O70157	Top3a	95078	RPA2	replication protein A2, 32kDa	ENSG00000117748
O70157	Top3a	44535	SSBP1	single-stranded DNA binding protein 1	ENSG00000106028
O70157	Top3a	30365	BLM	Bloom syndrome, RecQ helicase-like	ENSG00000197299
O70157	Top3a	14585	RM12	RM12, RecQ mediated genome instability 2, homolog (S. d	ENSG00000175643
O70157	Top3a	74108	RM11	RM11, RecQ mediated genome instability 1, homolog (S. d	ENSG00000178966
O70157	Top3a	45367	C2orf56	chromosome 2 open reading frame 56	ENSG00000003509
O70157	Top3a	33849	TOP3A	topoisomerase (DNA) III alpha	ENSG00000177302
O70157	Top3a	404450	PGAM5	phosphoglycerate mutase family member 5	ENSG00000247077
Q9R1R2	Trim3	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor	ENSG00000145333
Q9R1R2	Trim3	7492	ZFYVE28	zinc finger, FYVE domain containing 28	ENSG00000159735
Q80V11	Trim56	47893	TMEM173	transmembrane protein 173	ENSG00000184584
Q37X08	Trmt1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q9QZC1	Trpc3	67841	PRKCG	protein kinase C, gamma	ENSG00000126583
Q8K424	Trpv3	16933	EGFR	epidermal growth factor receptor	ENSG00000146648
P69744	Trpv5	148350	Slc9a3r2	solute carrier family 9 (sodium/hydrogen exchanger), me	ENSMUSG00000002504
P68368	Tuba4a	152695	Sykb	spleen tyrosine kinase	ENSMUSG00000021457
P68368	Tuba4a	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor	ENSG00000145333
P68368	Tuba4a	207842	Snap25	synaptosomal-associated protein 25	ENSMUSG00000027273
P68368	Tuba4a	183835	Nckap1	NCK-associated protein 1	ENSMUSG00000027002
P68368	Tuba4a	179812	Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	ENSMUSG00000033161
P68368	Tuba4a	168772	Kif5c	kinesin family member 5C	ENSMUSG00000026764
P68368	Tuba4a	127944	Kif5b	kinesin family member 5B	ENSMUSG00000006740
P68368	Tuba4a	180315	Ap2a1	adaptor protein complex AP-2, alpha 1 subunit	ENSMUSG00000060279
P68368	Tuba4a	131026	Pacs1	phosphofurin acidic cluster sorting protein 1	ENSMUSG00000024855
P68368	Tuba4a	205183	Ap2b1	adaptor-related protein complex 2, beta 1 subunit	ENSMUSG00000035152
P68368	Tuba4a	200612	Mtap6	microtubule-associated protein 6	ENSMUSG00000055407
P68368	Tuba4a	181984	Tuba1a	tubulin, alpha 1A	ENSMUSG00000072235
P68368	Tuba4a	198630	Hspg2	perlecan (heparan sulfate proteoglycan 2)	ENSMUSG00000028763
P68368	Tuba4a	262062	Gm3272	predicted pseudogene 3272	ENSMUSG00000078967
P68368	Tuba4a	129240	Syp	synaptophysin	ENSMUSG00000031144
P68368	Tuba4a	143914	Tubb2a	tubulin, beta 2A	ENSMUSG00000058672
P68368	Tuba4a	191004	Zfhx3	zinc finger homeobox 3	ENSMUSG00000038872
P68368	Tuba4a	187917	Atp6v0d1	ATPase, H ⁺ transporting, lysosomal V0 subunit D1	ENSMUSG00000013160
P68368	Tuba4a	179144	Tubb5	tubulin, beta 5	ENSMUSG00000001525
P68368	Tuba4a	214779	Actg1	actin, gamma, cytoplasmic 1	ENSMUSG00000062825
P68368	Tuba4a	191734	Lyz2	lysozyme 2	ENSMUSG00000069516
P68368	Tuba4a	182053	Tuba1c	tubulin, alpha 1C	ENSMUSG00000043091
P68368	Tuba4a	190248	Kcna1	potassium voltage-gated channel, shaker-related subfam	ENSMUSG00000047976
P68368	Tuba4a	211468	Cnp	2',3'-cyclic nucleotide 3' phosphodiesterase	ENSMUSG00000006782
P68368	Tuba4a	204179	Ywhag	tyrosine 3-monoxygenase/tryptophan 5-monoxygenase	ENSMUSG00000051391
P68368	Tuba4a	163852	Calm1	calmodulin 1	ENSMUSG00000001175
P68368	Tuba4a	162948	Lgi1	leucine-rich repeat LGI family, member 1	ENSMUSG00000067242
P68368	Tuba4a	135538	Syn1	synapsin I	ENSMUSG00000037217
P68368	Tuba4a	152459	Gda	guanine deaminase	ENSMUSG00000058624
P68368	Tuba4a	144350	Tubb2c	tubulin, beta 2C	ENSMUSG00000036752
P68368	Tuba4a	159551	Dnm1	dynamamin 1	ENSMUSG00000026825
P68368	Tuba4a	185044	Kcna2	potassium voltage-gated channel, shaker-related subfam	ENSMUSG00000040724
P68368	Tuba4a	133249	Adam22	a disintegrin and metallopeptidase domain 22	ENSMUSG00000004537
P68368	Tuba4a	206719	Kcnab2	potassium voltage-gated channel, shaker-related subfam	ENSMUSG00000028931
P68368	Tuba4a	193317	Dlq4	discs, large homolog 4 (Drosophila)	ENSMUSG00000020886
P68368	Tuba4a	144904	Grin1	glutamate receptor, ionotropic, NMDA1 (zeta 1)	ENSMUSG00000026959
Q921G8	Tubgcp2	161623	Stxbp1	syntaxin binding protein 1	ENSMUSG00000026797
Q921G8	Tubgcp2	154521	Tnk2	tyrosine kinase, non-receptor, 2	ENSMUSG00000022791
Q921G8	Tubgcp2	130893	Klc2	kinesin light chain 2	ENSMUSG00000024862
Q921G8	Tubgcp2	186957	Eef1a1	eukaryotic translation elongation factor 1 alpha 1	ENSMUSG00000037742
Q921G8	Tubgcp2	168772	Kif5c	kinesin family member 5C	ENSMUSG00000026764
Q921G8	Tubgcp2	159551	Dnm1	dynamamin 1	ENSMUSG00000026825
Q921G8	Tubgcp2	133375	Tubgcp3	tubulin, gamma complex associated protein 3	ENSMUSG00000000759
Q921G8	Tubgcp2	173074	Actr1a	ARP1 actin-related protein 1 homolog A, centractin alpha	ENSMUSG00000025228
Q921G8	Tubgcp2	153613	Hspa8	heat shock protein 8	ENSMUSG00000015656
Q921G8	Tubgcp2	211869	Tubg1	tubulin, gamma 1	ENSMUSG00000035198
Q921G8	Tubgcp2	137748	Kcnma1	potassium large conductance calcium-activated channel, s	ENSMUSG00000063142
Q921G8	Tubgcp2	191571	Khdrbs1	KH domain containing, RNA binding, signal transduction a	ENSMUSG00000028790
Q921G8	Tubgcp2	132410	Pik3c3	phosphoinositide-3-kinase, class 3	ENSMUSG00000033628
Q921G8	Tubgcp2	156172	Atp1a3	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide	ENSMUSG00000040907
Q921G8	Tubgcp2	205352	Atp1a2	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide	ENSMUSG0000007097
Q921G8	Tubgcp2	186932	A830010M20R1	RIKEN cDNA A830010M20 gene	ENSMUSG00000044060
Q921G8	Tubgcp2	144990	Actr1b	ARP1 actin-related protein 1 homolog B, centractin beta (ENSMUSG00000037351
Q921G8	Tubgcp2	195461	Pik3r4	phosphatidylinositol 3 kinase, regulatory subunit, polypep	ENSMUSG00000032571
Q921G8	Tubgcp2	179812	Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide	ENSMUSG00000033161
Q921G8	Tubgcp2	201853	Tubgcp4	tubulin, gamma complex associated protein 4	ENSMUSG00000027263
Q921G8	Tubgcp2	186141	Ampd2	adenosine monophosphate deaminase 2	ENSMUSG00000027889
Q921G8	Tubgcp2	51668	TUBGCP3	tubulin, gamma complex associated protein 3	ENSG00000126216
Q921G8	Tubgcp2	51267	TUBG1	tubulin, gamma 1	ENSG00000131462
Q921G8	Tubgcp2	69689	MZT2B	mitotic spindle organizing protein 2B	ENSG00000152082
Q921G8	Tubgcp2	93655	TUBGCP2	tubulin, gamma complex associated protein 2	ENSG00000130640
P26369	U2af2	156709	Clk1	CDC-like kinase 1	ENSMUSG00000026034

Q99NB8	Ubqln4	187207	Tcfcp211	transcription factor CP2-like 1	ENSMUSG00000026380
Q99NB8	Ubqln4	637438	UBB	ubiquitin B	ENSBTAG0000017246
O70481	Ubr1	199949	Sos1	son of sevenless homolog 1 (Drosophila)	ENSMUSG00000024241
O70481	Ubr1	165283	Use1	unconventional SNARE in the ER 1 homolog (S. cerevisiae)	ENSMUSG00000002395
Q8BL48	Unk	155851	Arhgef1	Rho guanine nucleotide exchange factor (GEF) 1	ENSMUSG000000040940
Q9CR68	Uqcrrf1	30077	SNCA	synuclein, alpha (non A4 component of amyloid precursor protein)	ENSG00000145335
Q9ES64	Ush1c	162009	Pcdh15	protocadherin 15	ENSMUSG00000052613
Q9ES64	Ush1c	154608	Cdh23	cadherin 23 (otocadherin)	ENSMUSG00000012819
Q9ES64	Ush1c	200041	Myo7a	myosin VIIA	ENSMUSG00000030761
Q9ES64	Ush1c	191181	Shbg	sex hormone binding globulin	ENSMUSG00000005202
O88623	Usp2	13236	NEDD4	neural precursor cell expressed, developmentally down-regulated	ENSG00000069869
O88623	Usp2	183743	Nedd4	neural precursor cell expressed, developmentally down-regulated	ENSMUSG00000032216
P35123	Usp4	40102	TRAF6	TNF receptor-associated factor 6	ENSG00000175104
P35123	Usp4	193222	Traf6	TNF receptor-associated factor 6	ENSMUSG00000027164
P70460	Vasp	141341	Apbb1ip	amyloid beta (A4) precursor protein-binding, family B, member 1	ENSMUSG00000026786
P70460	Vasp	146219	Pfn2	profilin 2	ENSMUSG00000027805
P70460	Vasp	140703	Diap1	diaphanous homolog 1 (Drosophila)	ENSMUSG00000024456
P27870	Vav1	68262	GRB2	growth factor receptor-bound protein 2	ENSG00000177885
P27870	Vav1	214339	Grb2	growth factor receptor bound protein 2	ENSMUSG00000059923
P27870	Vav1	195821	Ptpnc	protein tyrosine phosphatase, receptor type, C	ENSMUSG00000026395
P27870	Vav1	199949	Sos1	son of sevenless homolog 1 (Drosophila)	ENSMUSG00000024241
P27870	Vav1	170464	Rasa1	RAS p21 protein activator 1	ENSMUSG00000021549
P27870	Vav1	191117	Lck	lymphocyte protein tyrosine kinase	ENSMUSG00000000409
P27870	Vav1	152740	Haus7	HAUS augmin-like complex, subunit 7	ENSMUSG00000031371
P27870	Vav1	129304	Plp2	proteolipid protein 2	ENSMUSG00000031146
P27870	Vav1	158280	Hnrnpk	heterogeneous nuclear ribonucleoprotein K	ENSMUSG00000021546
P27870	Vav1	144629	Fyn	Fyn proto-oncogene	ENSMUSG00000019843
P27870	Vav1	161461	Lcp2	lymphocyte cytosolic protein 2	ENSMUSG00000002699
P27870	Vav1	136196	Prkcc	protein kinase C, theta	ENSMUSG00000026778
P27870	Vav1	165705	Cblb	Casitas B-lineage lymphoma b	ENSMUSG00000022637
P27870	Vav1	178868	Pik3r1	phosphatidylinositol 3-kinase, regulatory subunit, polypeptide chain gamma	ENSMUSG00000041417
P27870	Vav1	8115	RAC1	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP-binding protein)	ENSG00000136238
P27870	Vav1	155337	Sh3bp2	SH3-domain binding protein 2	ENSMUSG000000054520
P27870	Vav1	211273	Src	Rous sarcoma oncogene	ENSMUSG00000027646
P27870	Vav1	152695	Sykb	spleen tyrosine kinase	ENSMUSG00000021457
P27870	Vav1	155970	Cbl	Casitas B-lineage lymphoma	ENSMUSG00000033432
P27870	Vav1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
P27870	Vav1	187635	Ptpn6	protein tyrosine phosphatase, non-receptor type 6	ENSMUSG00000004266
P20152	Vim	199974	Pak1	p21 protein (Cdc42/Rac)-activated kinase 1	ENSMUSG00000030774
P20152	Vim	59899	DSP	desmoplakin	ENSG00000096696
P20152	Vim	35299	KRT18	keratin 18	ENSG00000111057
P20152	Vim	130873	Ppl	periaklin	ENSMUSG00000039457
P20152	Vim	200741	Arrb1	arrestin, beta 1	ENSMUSG00000018909
P20152	Vim	201164	Prkce	protein kinase C, epsilon	ENSMUSG00000045038
P20152	Vim	146193	Tsga10	testis specific 10	ENSMUSG000000060771
P20152	Vim	129229	Cftr	cystic fibrosis transmembrane conductance regulator homolog	ENSMUSG00000041301
Q8R307	Vps18	206436	Vps16	vacuolar protein sorting 16 (yeast)	ENSMUSG00000027411
Q8R307	Vps18	13870	C14orf133	chromosome 14 open reading frame 133	ENSG00000151445
Q8R307	Vps18	30774	VPS33B	vacuolar protein sorting 33 homolog B (yeast)	ENSG00000184056
Q62481	Vps72	187207	Tcfcp211	transcription factor CP2-like 1	ENSMUSG00000026380
Q8CI28	Vwf	185526	Mfap5	microfibrillar associated protein 5	ENSMUSG00000030116
Q8CGF6	Wdr47	156674	Tcf4	transcription factor 4	ENSMUSG00000053477
Q8CGF6	Wdr47	205243	Ctnnb1	catenin (cadherin associated protein), beta 1	ENSMUSG00000006932
Q8CGF6	Wdr47	134833	Tnik	TRAF2 and NCK interacting kinase	ENSMUSG00000027692
Q8CGF6	Wdr47	180861	Zc3h13	zinc finger CCH type containing 13	ENSMUSG00000022000
Q8CGF6	Wdr47	186169	Zfp326	zinc finger protein 326	ENSMUSG00000029290
Q8CGF6	Wdr47	139346	Mllt10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog)	ENSMUSG00000026743
Q8CGF6	Wdr47	201862	Smarcc1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily 1 member C	ENSMUSG00000032481
Q8CGF6	Wdr47	267922	Smarcd2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily 2 member D	ENSMUSG00000078619
Q8CGF6	Wdr47	181503	Flii	flightless I homolog (Drosophila)	ENSMUSG00000002812
Q8CGF6	Wdr47	143983	Trim28	tripartite motif-containing 28	ENSMUSG00000005566
Q8CGF6	Wdr47	129915	Rbm14	RNA binding motif protein 14	ENSMUSG00000006456
Q8CGF6	Wdr47	196765	Mybbp1a	MYB binding protein (P160) 1a	ENSMUSG00000040463
Q8CGF6	Wdr47	137755	Wtap	Wilms' tumour 1-associating protein	ENSMUSG00000060475
Q8CGF6	Wdr47	135895	Ubr5	ubiquitin protein ligase E3 component n-recognin 5	ENSMUSG000000037487
Q8CGF6	Wdr47	175749	Dot1l	DOT1-like, histone H3 methyltransferase (S. cerevisiae)	ENSMUSG00000061589
Q8CGF6	Wdr47	169383	Rif1	Rap1 interacting factor 1 homolog (yeast)	ENSMUSG00000036202
Q8CGF6	Wdr47	197552	Smarcc2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily 2 member C	ENSMUSG00000025369
Q8CGF6	Wdr47	207801	Atad3a	ATPase family, AAA domain containing 3A	ENSMUSG00000029036
Q8CGF6	Wdr47	130805	Rbm28	RNA binding motif protein 28	ENSMUSG000000029701
Q8CGF6	Wdr47	176882	Chd1l	chromodomain helicase DNA binding protein 1-like	ENSMUSG00000028089
Q8CGF6	Wdr47	140748	Carm1	coactivator-associated arginine methyltransferase 1	ENSMUSG00000032185
Q8CGF6	Wdr47	195347	Arid1a	AT rich interactive domain 1A (SWI-like)	ENSMUSG00000007880
Q8CGF6	Wdr47	171022	Smarca5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily 5 member A	ENSMUSG00000031715
Q8CGF6	Wdr47	177837	Tcf7l2	transcription factor 7-like 2, T-cell specific, HMG-box	ENSMUSG000000024985
Q8BH57	Wdr48	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activator protein 1	ENSMUSG00000020849
P56695	Wfs1	208404	Smurf1	SMAD specific E3 ubiquitin protein ligase 1	ENSMUSG00000038780
Q8K117	Wipf1	193200	Nck1	non-catalytic region of tyrosine kinase adaptor protein 1	ENSMUSG000000032475
Q8K117	Wipf1	212876	Cttn	cortactin	ENSMUSG00000031078
Q8K117	Wipf1	133881	Pik3cq	phosphoinositide-3-kinase, catalytic, gamma polypeptide	ENSMUSG00000020573
Q8K117	Wipf1	130090	Was	Wiskott-Aldrich syndrome homolog (human)	ENSMUSG00000031165
Q8K117	Wipf1	62310	CTTN	cortactin	ENSG00000085733
Q8K117	Wipf1	152695	Sykb	spleen tyrosine kinase	ENSMUSG000000021457
Q8K117	Wipf1	196509	Irf8	interferon regulatory factor 8	ENSMUSG000000041515
Q80UE6	Wnk4	147450	Kcnj1	potassium inwardly-rectifying channel, subfamily J, member 1	ENSMUSG000000041248
Q80UE6	Wnk4	192929	Cldn7	claudin 7	ENSMUSG00000018569
Q80UE6	Wnk4	175590	Stk39	serine/threonine kinase 39, STE20/SPS1 homolog (yeast)	ENSMUSG00000027030
Q80UE6	Wnk4	32527	SLC12A3	solute carrier family 12 (sodium/chloride transporters), member 3	ENSG00000070915
P04426	Wnt1	209670	Kl	klotho	ENSMUSG00000058488

P04426	Wnt1	201449	Wls	wntless homolog (Drosophila)	ENSMUSG00000028173
P04426	Wnt1	213058	Wnt3	wingless-related MMTV integration site 3	ENSMUSG00000000125
P04426	Wnt1	141666	Wnt5a	wingless-related MMTV integration site 5A	ENSMUSG00000021994
P04426	Wnt1	128188	Fzd8	frizzled homolog 8 (Drosophila)	ENSMUSG00000036904
P04426	Wnt1	194033	Lrp6	low density lipoprotein receptor-related protein 6	ENSMUSG00000030201
P04426	Wnt1	132454	Fzd1	frizzled homolog 1 (Drosophila)	ENSMUSG00000044674
P04426	Wnt1	130301	Porcn	porcupine homolog (Drosophila)	ENSMUSG00000031169
P04426	Wnt1	194079	Ryk	receptor-like tyrosine kinase	ENSMUSG00000032547
P04426	Wnt1	158189	Dkk1	dickkopf homolog 1 (Xenopus laevis)	ENSMUSG00000024868
P04426	Wnt1	128306	Lrp5	low density lipoprotein receptor-related protein 5	ENSMUSG00000024913
Q91XU0	Wrrnip1	147033	Wrn	Werner syndrome homolog (human)	ENSMUSG00000031583
Q91WL8	Wwox	73479	MAPK8	mitogen-activated protein kinase 8	ENSG00000107643
Q91WL8	Wwox	191036	Trp53	transformation related protein 53	ENSMUSG00000059552
Q91WL8	Wwox	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q8BZZ3	Wwp1	180986	Hoxd12	homeobox D12	ENSMUSG00000001823
Q60989	Xiap	149571	Notch1	Notch gene homolog 1 (Drosophila)	ENSMUSG00000026923
Q60989	Xiap	62263	DIABLO	diablo, IAP-binding mitochondrial protein	ENSG00000184047
Q60989	Xiap	185903	Hccs	holocytochrome c synthetase	ENSMUSG00000031352
Q60989	Xiap	154747	Irak1	interleukin-1 receptor-associated kinase 1	ENSMUSG00000031392
Q60989	Xiap	199693	Diablo	diablo homolog (Drosophila)	ENSMUSG00000029433
Q60989	Xiap	57753	HTRA2	HtrA serine peptidase 2	ENSG00000115317
Q60989	Xiap	146050	Tgfb1	transforming growth factor, beta receptor I	ENSMUSG00000007613
Q60989	Xiap	158878	Pten	phosphatase and tensin homolog	ENSMUSG00000013663
Q60989	Xiap	133552	Map3k2	mitogen-activated protein kinase kinase kinase 2	ENSMUSG00000024383
Q60989	Xiap	159586	Htra2	HtrA serine peptidase 2	ENSMUSG000000068329
Q60596	Xrcc1	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380
Q60596	Xrcc1	178408	Pou5f1	POU domain, class 5, transcription factor 1	ENSMUSG00000024406
Q9DBR1	Xrn2	18226	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit	ENSG00000132356
P62960	Ybx1	160840	Npm1	nucleophosmin 1	ENSMUSG00000057113
P62960	Ybx1	181902	Ebna1b1p2	EBNA1 binding protein 2	ENSMUSG00000028729
P62960	Ybx1	147779	Dhx36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	ENSMUSG00000027770
P62960	Ybx1	193395	Csda	cold shock domain protein A	ENSMUSG00000030189
P62960	Ybx1	183109	Mov10	Moloney leukemia virus 10	ENSMUSG00000002227
P62960	Ybx1	195575	Lin28a	lin-28 homolog A (C. elegans)	ENSMUSG00000050966
P62960	Ybx1	177350	Ssb	Siogren syndrome antigen B	ENSMUSG00000068882
P62960	Ybx1	148994	Lin28b	lin-28 homolog B (C. elegans)	ENSMUSG00000063804
P62960	Ybx1	209747	Igf2bp1	insulin-like growth factor 2 mRNA binding protein 1	ENSMUSG00000013415
P62960	Ybx1	172864	Zcchc11	zinc finger, CCHC domain containing 11	ENSMUSG00000034610
P62960	Ybx1	157719	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	ENSMUSG00000020075
P62960	Ybx1	135334	Pabpc1	poly(A) binding protein, cytoplasmic 1	ENSMUSG00000022283
P62960	Ybx1	185079	Pabpc4	poly(A) binding protein, cytoplasmic 4	ENSMUSG00000011257
P62960	Ybx1	101151	MOV10	Mov10, Moloney leukemia virus 10, homolog (mouse)	ENSG00000155363
P62960	Ybx1	86774	MRPL43	mitochondrial ribosomal protein L43	ENSG00000055950
P62960	Ybx1	24767	MRPS35	mitochondrial ribosomal protein S35	ENSG00000061794
P62960	Ybx1	14467	NOP2	NOP2 nucleolar protein homolog (yeast)	ENSG00000111641
P62960	Ybx1	103603	MRPL24	mitochondrial ribosomal protein L24	ENSG00000143314
P62960	Ybx1	42070	NOP56	NOP56 ribonucleoprotein homolog (yeast)	ENSG00000101361
P62960	Ybx1	66351	MRPL47	mitochondrial ribosomal protein L47	ENSG00000113652
P62960	Ybx1	17070	CLPX	ClpX caseinolytic peptidase X homolog (E. coli)	ENSG00000166855
P62960	Ybx1	26545	YARS2	tyrosyl-tRNA synthetase 2, mitochondrial	ENSG00000139131
P62960	Ybx1	14949	RSL1D1	ribosomal L1 domain containing 1	ENSG00000171490
P62960	Ybx1	78852	NOP58	NOP58 ribonucleoprotein homolog (yeast)	ENSG00000055044
P62960	Ybx1	231947	HNRNPUL2	heterogeneous nuclear ribonucleoprotein U-like 2	ENSG00000214753
P62960	Ybx1	30847	PABPC1	poly(A) binding protein, cytoplasmic 1	ENSG00000070756
P62960	Ybx1	60841	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B	ENSG00000119745
P62960	Ybx1	68708	TRA2B	transformer 2 beta homolog (Drosophila)	ENSG00000136527
P62960	Ybx1	76689	FAM120A	family with sequence similarity 120A	ENSG00000048828
P62960	Ybx1	105280	DHX9	DEAH (Asp-Glu-Ala-His) box polypeptide 9	ENSG00000135829
P62960	Ybx1	45275	MRPS26	mitochondrial ribosomal protein S26	ENSG00000125901
P62960	Ybx1	93845	HNRNPR	heterogeneous nuclear ribonucleoprotein R	ENSG00000125944
P62960	Ybx1	74582	SSB	Siogren syndrome antigen B (autoantigen La)	ENSG00000138385
P62960	Ybx1	47535	MATR3	matrin 3	ENSG00000015479
P62960	Ybx1	58802	MRPS22	mitochondrial ribosomal protein S22	ENSG00000175110
P62960	Ybx1	74966	RALY	RNA binding protein, autoantigenic (hnRNP-associated with	ENSG00000125970
P62960	Ybx1	34614	LARP7	La ribonucleoprotein domain family, member 7	ENSG00000174720
P62960	Ybx1	96711	PABPC4	poly(A) binding protein, cytoplasmic 4 (inducible form)	ENSG00000090621
P62960	Ybx1	73948	HNRNPK	heterogeneous nuclear ribonucleoprotein K	ENSG00000165119
P62960	Ybx1	48642	MRPL16	mitochondrial ribosomal protein L16	ENSG00000166902
P62960	Ybx1	31963	DHX30	DEAH (Asp-Glu-Ala-His) box polypeptide 30	ENSG00000132153
P62960	Ybx1	9268	MRPS34	mitochondrial ribosomal protein S34	ENSG00000074071
P62960	Ybx1	26969	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like	ENSG00000152795
P62960	Ybx1	64774	DDX5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	ENSG00000108654
P62960	Ybx1	50843	FBL	fibrillarin	ENSG00000105202
P62960	Ybx1	84543	RRP12	ribosomal RNA processing 12 homolog (S. cerevisiae)	ENSG00000052749
P62960	Ybx1	100201	ZNF326	zinc finger protein 326	ENSG00000162664
P62960	Ybx1	71348	HNRNPF	heterogeneous nuclear ribonucleoprotein F	ENSG00000169813
P62960	Ybx1	92073	DKC1	dyskeratosis congenita 1, dyskerin	ENSG00000130826
P62960	Ybx1	72582	SLC25A10;MRP	solute carrier family 25 (mitochondrial carrier; dicarboxylate	ENSG00000183048
P62960	Ybx1	68185	MRPS7	mitochondrial ribosomal protein S7	ENSG00000125445
P62960	Ybx1	75837	HNRNPA3	heterogeneous nuclear ribonucleoprotein A3	ENSG00000170144
P62960	Ybx1	98576	MRPL18	mitochondrial ribosomal protein L18	ENSG00000112110
P62960	Ybx1	14600	ZFR	zinc finger RNA binding protein	ENSG00000056097
P62960	Ybx1	37948	DDX28	DEAD (Asp-Glu-Ala-Asp) box polypeptide 28	ENSG00000182810
P62960	Ybx1	87732	RBMX	RNA binding motif protein, X-linked	ENSG00000147274
P62960	Ybx1	94027	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting prote	ENSG00000135316
P62960	Ybx1	107800	HNRNPU	heterogeneous nuclear ribonucleoprotein U (scaffold attac	ENSG00000153187
P62960	Ybx1	59626	PTCD3	Pentatricopeptide repeat domain 3	ENSG00000132300
P62960	Ybx1	29914	POP1	processing of precursor 1, ribonuclease P/MRP subunit (S	ENSG00000104356
P62960	Ybx1	54950	LARP1	La ribonucleoprotein domain family, member 1	ENSG00000155506

P62960	Ybx1	9675	IGF2BP3	insulin-like growth factor 2 mRNA binding protein 3	ENSG00000136231
P62960	Ybx1	76283	DDX21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	ENSG00000165732
P62960	Ybx1	27975	ILF3	interleukin enhancer binding factor 3, 90kDa	ENSG00000129351
P62960	Ybx1	200597	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	ENSMUSG00000020849
P62960	Ybx1	57431	IGF2BP1	insulin-like growth factor 2 mRNA binding protein 1	ENSG00000159217
P62960	Ybx1	87885	TRUB2	TruB pseudouridine (psi) synthase homolog 2 (E. coli)	ENSG00000167112
P62960	Ybx1	76419	MRPS18B	mitochondrial ribosomal protein S18B	ENSG00000204568
P62960	Ybx1	46207	HNRNPA0	heterogeneous nuclear ribonucleoprotein A0	ENSG00000177733
Q9CX30	Yif1b	199250	Rgs16	regulator of G-protein signaling 16	ENSMUSG00000026475
Q9CX30	Yif1b	194715	Wasf2	WAS protein family, member 2	ENSMUSG00000028868
Q80X44	Zbtb24	144115	Ewsr1	Ewing sarcoma breakpoint region 1	ENSMUSG00000009079
Q3U133	Zfp746	136351	Park2	Parkinson disease (autosomal recessive, juvenile) 2, park	ENSMUSG00000023826
Q3U133	Zfp746	163551	Pparqc1a	peroxisome proliferative activated receptor, gamma, coact	ENSMUSG00000029167
Q8K327	Zfp828	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380
Q35615	Zfpm1	129965	Gata1	GATA binding protein 1	ENSMUSG00000031162
Q35615	Zfpm1	179829	Rb1	retinoblastoma 1	ENSMUSG00000022105
Q35615	Zfpm1	197705	E2f2	E2F transcription factor 2	ENSMUSG00000018983
Q35615	Zfpm1	175763	Tal1	T-cell acute lymphocytic leukemia 1	ENSMUSG00000028717
Q35615	Zfpm1	211193	Ctbp2	C-terminal binding protein 2	ENSMUSG00000030970
Q35615	Zfpm1	142016	Mta2	metastasis-associated gene family, member 2	ENSMUSG00000021646
Q35615	Zfpm1	128600	Rbbp8	retinoblastoma binding protein 8	ENSMUSG00000041238
Q35615	Zfpm1	143980	Hdac2	histone deacetylase 2	ENSMUSG00000019777
Q35615	Zfpm1	198084	Kdm1a	lysine (K)-specific demethylase 1A	ENSMUSG00000036940
Q35615	Zfpm1	175870	Mta1	metastasis associated 1	ENSMUSG00000021144
Q35615	Zfpm1	183758	Rbbp7	retinoblastoma binding protein 7	ENSMUSG00000031353
Q35615	Zfpm1	152845	Ctbp1	C-terminal binding protein 1	ENSMUSG00000037373
Q35615	Zfpm1	191058	Hdac1	histone deacetylase 1	ENSMUSG00000028800
Q35615	Zfpm1	153460	Tacc3	transforming, acidic coiled-coil containing protein 3	ENSMUSG00000037313
Q8C0C0	Zhx2	211315	Dock1	dedicator of cytokinesis 1	ENSMUSG00000058325
Q8C0C0	Zhx2	155648	Rel	reticulendotheliosis oncogene	ENSMUSG00000020275
A2A791	Zmym4	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380
P20239	Zp2	174668	Acr	acrosin prepropeptide	ENSMUSG00000022622
O54692	Zw10	35069	RINT1	RAD50 interactor 1	ENSG00000135249
O54692	Zw10	14632	C19orf25	chromosome 19 open reading frame 25	ENSG00000119559
O54692	Zw10	62630	KNTC1	kinetochore associated 1	ENSG00000184445
O54692	Zw10	18211	ZWILCH	Zwilch, kinetochore associated, homolog (Drosophila)	ENSG00000174442
O54692	Zw10	71807	ZW10	ZW10, kinetochore associated, homolog (Drosophila)	ENSG00000086827
O54692	Zw10	42318	CKAP5	cytoskeleton associated protein 5	ENSG00000175216
O54692	Zw10	18380	SCFD2	sec1 family domain containing 2	ENSG00000184178
O54692	Zw10	30503	NBAS	neuroblastoma amplified sequence	ENSG00000151779
Q9CQU5	Zwint	29429	PRKCSH	protein kinase C substrate 80K-H	ENSG00000130175
Q9CQU5	Zwint	95987	HSF2	heat shock transcription factor 2	ENSG00000025156
Q9CQU5	Zwint	28915	SPC24	SPC24, NDC80 kinetochore complex component, homolog	ENSG00000161888
Q9CQU5	Zwint	73404	DSN1	DSN1, MIND kinetochore complex component, homolog (S	ENSG00000149636
Q9CQU5	Zwint	33815	KIFC3	kinetochore family member C3	ENSG00000140859
Q9CQU5	Zwint	40498	HSF1	heat shock transcription factor 1	ENSG00000185122
Q9CQU5	Zwint	6877	TACC3	transforming, acidic coiled-coil containing protein 3	ENSG00000138110
Q9CQU5	Zwint	87806	GOLGA2	golgin A2	ENSG00000167110
Q9CQU5	Zwint	391	NDC80	NDC80 homolog, kinetochore complex component (S. cere	ENSG00000080986
Q9CQU5	Zwint	76196	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-	ENSG00000147162
Q9CQU5	Zwint	81397	NUP62CL	nucleoporin 62kDa C-terminal like	ENSG00000198088
Q9CQU5	Zwint	51371	GANAB	glucosidase, alpha; neutral AB	ENSG00000089597
Q9CQU5	Zwint	35513	EPS15L1	epidermal growth factor receptor pathway substrate 15-li	ENSG00000127527
Q9CQU5	Zwint	6485	CASC5	cancer susceptibility candidate 5	ENSG00000137812
Q9CQU5	Zwint	37408	THAP11	THAP domain containing 11	ENSG00000168286
Q9CQU5	Zwint	105359	EDEM3	ER degradation enhancer, mannosidase alpha-like 3	ENSG00000116406
Q9CQU5	Zwint	246910	NUP62	nucleoporin 62kDa	ENSG00000213024
Q9CQU5	Zwint	104442	NUF2	NUF2, NDC80 kinetochore complex component, homolog	ENSG00000143228
Q9CQU5	Zwint	98484	EPS15	epidermal growth factor receptor pathway substrate 15	ENSG00000085832
Q6KAQ7	Zzz3	205939	Tada2a	transcriptional adaptor 2A	ENSMUSG00000018651
Q6KAQ7	Zzz3	143426	Yeats2	YEATS domain containing 2	ENSMUSG00000041215
Q6KAQ7	Zzz3	151154	Wdr5	WD repeat domain 5	ENSMUSG00000026917
Q6KAQ7	Zzz3	176433	Tada3	transcriptional adaptor 3	ENSMUSG00000048930
Q6KAQ7	Zzz3	209697	Ccdc101	coiled-coil domain containing 101	ENSMUSG00000030714
Q6KAQ7	Zzz3	190822	Kat2b	K(lysine) acetyltransferase 2B	ENSMUSG00000000708
Q6KAQ7	Zzz3	187799	Dr1	down-regulator of transcription 1	ENSMUSG00000029265
Q6KAQ7	Zzz3	141131	Mbip	MAP3K12 binding inhibitory protein 1	ENSMUSG00000021028
Q6KAQ7	Zzz3	208472	Csrp2bp	cysteine and glycine-rich protein 2 binding protein	ENSMUSG00000027425
Q6KAQ7	Zzz3	211539	Kat2a	K(lysine) acetyltransferase 2A	ENSMUSG00000020918
Q6KAQ7	Zzz3	132631	Atxn7	ataxin 7	ENSMUSG000000021738
Q6KAQ7	Zzz3	134374	Atxn7l1	ataxin 7-like 1	ENSMUSG00000020564
Q6KAQ7	Zzz3	212566	Atxn7l3	ataxin 7-like 3	ENSMUSG00000059995
Q6KAQ7	Zzz3	210500	Med1	mediator complex subunit 1	ENSMUSG00000018160
Q6KAQ7	Zzz3	253359	Med12	mediator of RNA polymerase II transcription, subunit 12 h	ENSMUSG00000079487
Q6KAQ7	Zzz3	206853	Med13	mediator complex subunit 13	ENSMUSG00000034297
Q6KAQ7	Zzz3	132282	Med14	mediator complex subunit 14	ENSMUSG00000064127
Q6KAQ7	Zzz3	139947	Med15	mediator complex subunit 15	ENSMUSG00000012114
Q6KAQ7	Zzz3	171451	Med16	mediator complex subunit 16	ENSMUSG00000013833
Q6KAQ7	Zzz3	135069	Med17	mediator complex subunit 17	ENSMUSG00000031935
Q6KAQ7	Zzz3	194008	Med18	mediator of RNA polymerase II transcription, subunit 18 h	ENSMUSG00000066042
Q6KAQ7	Zzz3	198395	Med21	mediator complex subunit 21	ENSMUSG00000030291
Q6KAQ7	Zzz3	139123	Med23	mediator complex subunit 23	ENSMUSG00000019984
Q6KAQ7	Zzz3	210636	Med24	mediator complex subunit 24	ENSMUSG00000017210
Q6KAQ7	Zzz3	168279	Med26	mediator complex subunit 26	ENSMUSG00000045248
Q6KAQ7	Zzz3	153778	Med27	mediator complex subunit 27	ENSMUSG00000026799
Q6KAQ7	Zzz3	162461	Med28	mediator of RNA polymerase II transcription, subunit 28 h	ENSMUSG00000015804
Q6KAQ7	Zzz3	196398	Med31	mediator of RNA polymerase II transcription, subunit 31 h	ENSMUSG00000020801
Q6KAQ7	Zzz3	180055	Med4	mediator of RNA polymerase II transcription, subunit 4 h	ENSMUSG00000022109
Q6KAQ7	Zzz3	154516	Med6	mediator of RNA polymerase II transcription, subunit 6 h	ENSMUSG00000002679

Q6KAQ7	Zzz3	181342	Med8	mediator of RNA polymerase II transcription, subunit 8 h	ENSMUSG00000006392
Q6KAQ7	Zzz3	191826	Polr2a	polymerase (RNA) II (DNA directed) polypeptide A	ENSMUSG00000005198
Q6KAQ7	Zzz3	174132	Polr2b	polymerase (RNA) II (DNA directed) polypeptide B	ENSMUSG00000029250
Q6KAQ7	Zzz3	209007	Spata20	spermatogenesis associated 20	ENSMUSG00000020867
Q6KAQ7	Zzz3	207998	Sptlc3	serine palmitoyltransferase, long chain base subunit 3	ENSMUSG00000039092
Q6KAQ7	Zzz3	203046	Tada1	transcriptional adaptor 1	ENSMUSG00000026563
Q6KAQ7	Zzz3	204983	Taf10	TAF10 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG000000043866
Q6KAQ7	Zzz3	193751	Taf12	TAF12 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG00000028899
Q6KAQ7	Zzz3	199943	Taf5l	TAF5-like RNA polymerase II, p300/CBP-associated factor	ENSMUSG00000038697
Q6KAQ7	Zzz3	140953	Taf6l	TAF6-like RNA polymerase II, p300/CBP-associated factor	ENSMUSG0000003680
Q6KAQ7	Zzz3	178346	Taf9	TAF9 RNA polymerase II, TATA box binding protein (TBP)	ENSMUSG00000052293
Q6KAQ7	Zzz3	208186	Trrap	transformation/transcription domain-associated protein	ENSMUSG000000045482
Q6KAQ7	Zzz3	182297	Usp22	ubiquitin specific peptidase 22	ENSMUSG00000042506
Q6KAQ7	Zzz3	186515	Atxn7l2	ataxin 7-like 2	ENSMUSG000000048997
Q6KAQ7	Zzz3	606312	Med20	mediator complex subunit 20	ENSMUSG00000092558
Q6KAQ7	Zzz3	187207	Tcfcp2l1	transcription factor CP2-like 1	ENSMUSG00000026380

Table S3. Cellular pathways/processes over-represented within the pathogen response network (P<0.05)
Analysis is shown for three networks - INOH, KEGG and REACTOME

	Pathway Name	Pathway #	Uploaded Pathway Genes #	Genes in InnateDB for this pathway #	Genes Ratio	p-value
INOH Database	1 JAK-STAT pathway and regulation pathway	10320	132	229	58%	1.12941E-45
	2 VEGF signaling pathway	9573	86	153	56%	1.93624E-28
	3 HGF signaling pathway	9545	28	31	90%	4.62645E-18
	4 TGF-beta super family signaling pathway(canonical)	9541	48	85	56%	3.53799E-16
	5 Insulin receptor signaling	9660	41	69	59%	5.63966E-15
	6 AKT-mTOR signaling	9721	22	29	76%	2.10957E-11
	7 Signaling with Wnt (Canonical)	9585	30	54	56%	3.88786E-10
	8 Integrin signaling pathway	9503	43	97	44%	4.50978E-10
	9 TNFR1 signaling pathway	9856	19	28	68%	1.25389E-08
	10 NGF signaling pathway	10222	15	19	79%	2.39284E-08
	11 IL-1 signaling(through IKK-NFkB cascade)	10137	15	24	63%	2.41193E-06
	12 Toll-like receptor signaling pathway (through LPS, TLR4, MyD88, IRAK, TAK)	9680	15	24	63%	2.41193E-06
	13 Stabilization and accumulation of cytoplasmic beta-catenin	9635	13	21	62%	1.52533E-05
	14 IKK-NFkB cascade (TNFR1 signaling pathway)	10149	9	11	82%	1.57352E-05
	15 Toll-like receptor signaling pathway (through JNK cascade)	9514	14	24	58%	1.57387E-05
	16 Toll-like receptor signaling pathway (through p38 cascade)	9499	14	25	56%	2.84739E-05
	17 IKK activation signaling (through PKC beta and CARMA1:BCL10:MALT1)	9646	10	14	71%	2.99776E-05
	18 IL-6 signaling pathway	10204	6	6	100%	7.82359E-05
	19 Heterotrimeric GPCR signaling pathway (through glutamate, G alpha q and	10270	14	27	52%	8.37097E-05
	20 Fas signaling pathway	10228	11	18	61%	8.42532E-05
	21 Heterotrimeric GPCR signaling pathway (through Adenosine G alpha s)	9618	14	28	50%	0.000136269
	22 TGF beta signaling pathway (through TAK1)	10329	11	20	55%	0.000282566
	23 ERK cascade (Integrin signaling pathway)	9674	5	5	100%	0.000391416
	24 Toll-like receptor signaling pathway (through ECSIT, MEKK1, MKKs, JNK cas	9735	11	21	52%	0.00047191
	25 Heterotrimeric GPCR signaling pathway (through G alpha s ACs PKA BRaf an	9754	58	234	25%	0.001150829
	26 Toll-like receptor signaling pathway (through NF-kappaB)	10067	7	11	64%	0.001530876
	27 ERK cascade (JAK-STAT pathway)	9759	5	6	83%	0.001628804
	28 IL-23 signaling pathway(JAK2 TYK2 STAT3 STAT4)	9655	5	6	83%	0.001628804
	29 Heterotrimeric GPCR signaling pathway (through G alpha s ACs Epac BRaf a	9827	55	229	24%	0.002972262
	30 IL-12 signaling pathway	9528	5	7	71%	0.00432736
	31 Negative regulation of gene expression (Insulin receptor signaling)	10043	5	7	71%	0.00432736
	32 B-Raf activation signaling (GPCR Adenosine A2A receptor signaling pathwa	10194	6	10	60%	0.004988334
	33 Negative regulation of JAK STAT pathway	10295	4	5	80%	0.006863086
	34 IL-13 signaling pathway(JAK1 TYK2 STAT6) (IL-13 signaling(JAK1 TYK2 ST	9837	5	8	63%	0.008876222
	35 P38 cascade (IL-1 signaling pathway)	10056	6	12	50%	0.014305802
	36 Rap1 activation signaling (through cAMP, PKA, Cbl and C3G)	10267	5	9	56%	0.016132761
	37 AKT-GSK3beta signaling	9833	4	6	67%	0.016156253
	38 IL-10 signaling pathway	9829	4	6	67%	0.016156253
	39 Heterotrimeric GTP-binding protein coupled receptor signaling pathway (thr	9794	49	221	22%	0.021413313
	40 Beta catenin degradation signaling (Canonical Wnt signaling pathway Diagr	9535	4	7	57%	0.030138138
	41 Raf activation signaling (through RasGRP)	9848	4	7	57%	0.030138138
	42 Caspase3 activation signaling (TNFR1 signaling pathway)	10054	2	2	100%	0.046762678
	43 Caspase8 activation signaling (TNFR1 signaling pathway)	9819	2	2	100%	0.046762678
	44 Regulation of target gene expression by NF-kB	9696	2	2	100%	0.046762678
	45 JNK cascade (TNFR1 signaling pathway)	9792	4	8	50%	0.048578563
	46 Hedgehog signaling pathway	10082	8	24	33%	0.052093656
	47 Notch degradation signaling (Notch signaling pathway Diagram)	10019	3	5	60%	0.05376897
	48 IFN alpha signaling pathway	9520	5	12	42%	0.054643652
KEGG Database	1 Pathways in cancer	4393	162	318	51%	1.46074E-46
	2 Osteoclast differentiation	10372	74	116	64%	3.0312E-29
	3 Chronic myeloid leukemia	777	56	72	78%	4.34443E-29
	4 Neurotrophin signaling pathway	4369	74	126	59%	3.89963E-26
	5 Prostate cancer	773	59	89	66%	1.01804E-24
	6 T cell receptor signaling pathway	692	64	108	59%	7.22657E-23
	7 Hepatitis C	10396	73	136	54%	1.5177E-22
	8 B cell receptor signaling pathway	790	51	75	68%	3.73379E-22
	9 Chagas disease (American trypanosomiasis)	10401	58	102	57%	1.66943E-19
	10 Cell cycle	717	64	121	53%	2.59044E-19
	11 Acute myeloid leukemia	671	41	57	72%	3.05256E-19
	12 Focal adhesion	788	85	197	43%	2.52813E-18
	13 Chemokine signaling pathway	4351	78	173	45%	3.43869E-18
	14 ErbB signaling pathway	627	51	87	59%	4.72618E-18
	15 Jak-STAT signaling pathway	651	71	150	47%	4.86359E-18
	16 MAPK signaling pathway	728	102	266	38%	1.22791E-17
	17 Colorectal cancer	702	41	62	66%	2.9317E-17
	18 Toll-like receptor signaling pathway	699	54	100	54%	5.8244E-17
	19 Wnt signaling pathway	698	69	149	46%	6.14458E-17
	20 Insulin signaling pathway	664	64	134	48%	1.47603E-16
	21 Pancreatic cancer	795	43	70	61%	2.2762E-16
	22 Small cell lung cancer	747	47	83	57%	5.5559E-16

23	Renal cell carcinoma	620	42	70	60%	1.46836E-15
24	Glioma	740	39	62	63%	1.7908E-15
25	Non-small cell lung cancer	787	36	54	67%	1.80449E-15
26	Endometrial cancer	609	35	52	67%	3.16777E-15
27	Fc gamma R-mediated phagocytosis	4349	47	87	54%	6.48613E-15
28	Fc epsilon RI signaling pathway	708	42	78	54%	2.59007E-13
29	Bacterial invasion of epithelial cells	10403	39	69	57%	2.60149E-13
30	Toxoplasmosis	10393	55	121	45%	3.01498E-13
31	Adherens junction	741	40	73	55%	4.73993E-13
32	Melanogenesis	694	46	97	47%	5.79398E-12
33	Apoptosis	759	42	84	50%	6.29912E-12
34	RIG-I-like receptor signaling pathway	5715	37	69	54%	9.65369E-12
35	NOD-like receptor signaling pathway	8111	33	61	54%	1.18142E-10
36	Regulation of actin cytoskeleton	724	73	212	34%	3.36245E-10
37	Leishmaniasis	10360	33	64	52%	5.66875E-10
38	Natural killer cell mediated cytotoxicity	716	55	142	39%	5.67209E-10
39	Type II diabetes mellitus	641	28	49	57%	6.62803E-10
40	Adipocytokine signaling pathway	758	34	68	50%	8.42947E-10
41	Tight junction	607	49	131	37%	2.2888E-08
42	Leukocyte transendothelial migration	755	45	117	38%	3.59851E-08
43	Aldosterone-regulated sodium reabsorption	8108	24	44	55%	4.83209E-08
44	VEGF signaling pathway	645	33	74	45%	5.74247E-08
45	Thyroid cancer	704	19	30	63%	6.37896E-08
46	Progesterone-mediated oocyte maturation	5709	36	85	42%	6.38028E-08
47	Bladder cancer	616	23	42	55%	8.41295E-08
48	Gap junction	700	36	86	42%	8.66549E-08
49	Basal cell carcinoma	663	27	55	49%	9.80502E-08
50	TGF-beta signaling pathway	633	35	83	42%	1.0685E-07
51	Melanoma	713	31	71	44%	2.63292E-07
52	Endocytosis	4385	64	212	30%	1.05325E-06
53	Amyotrophic lateral sclerosis (ALS)	2811	25	54	46%	1.19632E-06
54	Long-term potentiation	729	28	66	42%	2.11294E-06
55	Ubiquitin mediated proteolysis	632	45	134	34%	2.69858E-06
56	MTOR signaling pathway	743	24	53	45%	3.30836E-06
57	P53 signaling pathway	666	27	65	42%	5.32623E-06
58	GnRH signaling pathway	723	34	95	36%	1.26652E-05
59	Axon guidance	612	42	129	33%	1.48924E-05
60	Proteasome	630	20	43	47%	1.56534E-05
61	Oocyte meiosis	8114	36	106	34%	2.28154E-05
62	Cytosolic DNA-sensing pathway	8116	23	55	42%	2.45712E-05
63	Arrhythmogenic right ventricular cardiomyopathy (ARVC)	4368	28	74	38%	2.4832E-05
64	Carbohydrate digestion and absorption	10378	17	37	46%	8.42326E-05
65	Malaria	10373	20	50	40%	0.000183042
66	Long-term depression	775	25	70	36%	0.000198074
67	Phagosome	10382	46	163	28%	0.000230554
68	Prion diseases	4363	15	33	45%	0.000273115
69	Huntington's disease	4374	47	169	28%	0.000281532
70	Cytokine-cytokine receptor interaction	604	64	252	25%	0.000308535
71	African trypanosomiasis	10402	13	29	45%	0.000852823
72	Hematopoietic cell lineage	682	26	81	32%	0.000894686
73	Notch signaling pathway	657	18	48	38%	0.000922223
74	Primary immunodeficiency	2817	14	34	41%	0.001354056
75	Dorso-ventral axis formation	4372	10	22	45%	0.003079643
76	Gastric acid secretion	10371	21	70	30%	0.006321168
77	Amoebiasis	10368	30	113	27%	0.00706257
78	Ribosome	756	22	76	29%	0.00779761
79	Alzheimer's disease	675	38	157	24%	0.011678893
80	Dilated cardiomyopathy	5708	24	89	27%	0.013403108
81	Vascular smooth muscle contraction	4355	30	124	24%	0.025187978
82	Circadian rhythm - mammal	796	8	21	38%	0.025674658

REACTOME Database

1	Transcriptional Regulation of Adipocyte Differentiation in 3T3-L1 Pre-adipoc	11965	34	52	65%	2.80808E-14
2	Transcriptional Regulation of White Adipocyte Differentiation	11800	34	52	65%	2.80808E-14
3	Signaling by SCF-KIT	11930	18	22	82%	2.41395E-10
4	Orc1 removal from chromatin	11586	34	70	49%	2.19312E-09
5	Downstream TCR signaling	11566	21	34	62%	2.16889E-08
6	Signal transduction by L1	11779	15	20	75%	7.29103E-08
7	Tie2 Signaling	11712	13	16	81%	1.3395E-07
8	CD28 dependent PI3K/Akt signaling	11559	13	17	76%	4.60036E-07
9	Downstream signal transduction	11833	13	17	76%	4.60036E-07
10	Generic Transcription Pathway	11504	13	17	76%	4.60036E-07
11	Folding of actin by CCT/TriC	11961	9	9	100%	5.37443E-07
12	Assembly of the pre-replicative complex	11614	12	15	80%	6.15745E-07
13	Signal attenuation	11877	11	13	85%	7.53309E-07
14	GPVI-mediated activation cascade	11707	17	28	61%	7.60351E-07
15	Prefoldin mediated transfer of substrate to CCT/TriC	11962	16	26	62%	1.35774E-06
16	Viral dsRNA:TLR3:TRIF Complex Activates RIP1	11473	11	14	79%	2.71644E-06
17	Removal of licensing factors from oriains	11620	12	17	71%	5.22156E-06
18	Activation of the pre-replicative complex	11597	16	28	57%	5.25383E-06
19	CTLA4 inhibitory signaling	11558	10	13	77%	1.22256E-05
20	NCAM signaling for neurite out-growth	11784	10	13	77%	1.22256E-05
21	Signaling by TGF beta	11835	10	13	77%	1.22256E-05
22	TNF signaling	11758	7	7	100%	1.54034E-05
23	Degradation of beta-catenin by the destruction complex	11838	25	61	41%	1.57205E-05
24	Recycling pathway of L1	11781	11	16	69%	1.91475E-05
25	CDT1 association with the CDC6:ORC:origin complex	11612	24	58	41%	1.95465E-05
26	Activation of ATR in response to replication stress	11577	18	37	49%	2.01979E-05
27	EGFR downregulation	11817	14	25	56%	2.84739E-05
28	Generation of second messenger molecules	11568	12	20	60%	5.03754E-05
29	Regulation of KIT signaling	11929	8	10	80%	7.04795E-05
30	Unblocking of NMDA receptor, glutamate binding and activation	11689	8	10	80%	7.04795E-05
31	Translation initiation complex formation	11545	26	70	37%	7.39569E-05
32	Netrin-1 signaling	11793	10	15	67%	7.40479E-05
33	Autodegradation of the E3 ubiquitin ligase COP1	11570	21	51	41%	7.66958E-05
34	Ubiquitin-dependent degradation of Cyclin D1	11583	21	51	41%	7.66958E-05
35	Switching of origins to a post-replicative state	11588	6	6	100%	7.82359E-05
36	TRAF3-dependent IRF activation pathway	11494	6	6	100%	7.82359E-05
37	PIP3 activates AKT signaling	11815	7	8	88%	8.38851E-05
38	Trafficking of GluR2-containing AMPA receptors	11687	7	8	88%	8.38851E-05

39	SCF(Skp2)-mediated degradation of p27/p21	11584	21	52	40%	0.000101845
40	Recruitment of mitotic centrosome proteins and complexes	11625	25	68	37%	0.000119622
41	CDK-mediated phosphorylation and removal of Cdc6	11587	20	50	40%	0.000183042
42	AKT phosphorylates targets in the cytosol	11813	8	11	73%	0.000190578
43	CDC6 association with the ORC:origin complex	11611	8	11	73%	0.000190578
44	NF-kB is activated and signals survival	11914	8	11	73%	0.000190578
45	Sema3A PAK dependent Axon repulsion	11776	8	11	73%	0.000190578
46	Ribosomal scanning and start codon recognition	11544	25	70	36%	0.000198074
47	DCC mediated attractive signaling	11792	9	14	64%	0.000264685
48	Activation of Pro-Caspase 8	11759	7	9	78%	0.000282208
49	CD28 dependent Vav1 pathway	11560	7	9	78%	0.000282208
50	TAK1 activates NFkB by phosphorylation and activation of IKKs complex	11458	7	9	78%	0.000282208
51	TRAF6 mediated NF-kB activation	11487	7	9	78%	0.000282208
52	Ubiquitin Mediated Degradation of Phosphorylated Cdc25A	11573	20	52	38%	0.000313597
53	G beta:gamma signalling through PI3Kgamma	11868	6	7	86%	0.000387043
54	NrCAM interactions	11780	6	7	86%	0.000387043
55	PI3K Cascade	11887	6	7	86%	0.000387043
56	SHC-mediated signalling	11890	5	5	100%	0.000391416
57	SCF-beta-TrCP mediated degradation of Emi1	11607	20	53	38%	0.000412057
58	Loss of Nlp from mitotic centrosomes	11622	22	61	36%	0.000414393
59	Loss of proteins required for interphase microtubule organization - from the	11623	22	61	36%	0.000414393
60	Integrin alphaIIb beta3 signaling	11705	10	18	56%	0.000503851
61	Regulation of ornithine decarboxylase (ODC)	11365	19	51	37%	0.000716271
62	E2F-enabled inhibition of pre-replication complex formation	11598	7	10	70%	0.000738762
63	Cdc20:Phospho-APC/C mediated degradation of Cyclin A	11764	23	68	34%	0.000854033
64	CDO in myogenesis	11806	8	13	62%	0.0009089
65	Axonal growth inhibition (RHOA activation)	11912	6	8	75%	0.001160334
66	Regulation of activated PAK-2p34 by proteasome mediated degradation	11740	18	49	37%	0.001173166
67	Circadian Clock (mouse)	12010	10	20	50%	0.00140367
68	Signalling by BMP	11836	10	20	50%	0.00140367
69	Caspase-mediated cleavage of cytoskeletal proteins	11744	7	11	64%	0.001530876
70	Costimulation by the CD28 family	11563	7	11	64%	0.001530876
71	DSCAM interactions	12007	7	11	64%	0.001530876
72	GAB1 signalosome	11816	7	11	64%	0.001530876
73	Signal regulatory protein (SIRP) family interactions	12006	7	11	64%	0.001530876
74	Unwinding of DNA	11594	7	11	64%	0.001530876
75	p75NTR recruits signalling complexes	11915	7	11	64%	0.001530876
76	G alpha (12/13) signalling events	11865	8	14	57%	0.001624922
77	Assembly of the ORC complex at the origin of replication	11613	5	6	83%	0.001628804
78	NOD1/2 Signaling Pathway	11493	5	6	83%	0.001628804
79	Viral dsRNA:TLR3:TRIF Complex Activates TBK1/IKK epsilon	11475	5	6	83%	0.001628804
80	APC/C:Cdc20 mediated degradation of Securin	11603	21	63	33%	0.001639164
81	Formation of the ternary complex, and subsequently, the 43S complex	11540	21	63	33%	0.001639164
82	Autodegradation of Cdh1 by Cdh1:APC/C	11610	20	59	34%	0.001717341
83	FOXO1-mediated regulation of Pdx1 expression	11964	4	4	100%	0.001877491
84	FasL/ CD95L signaling	11756	4	4	100%	0.001877491
85	MEK activation	11491	4	4	100%	0.001877491
86	RAF phosphorylates MEK	11490	4	4	100%	0.001877491
87	SOS-mediated signalling	11888	4	4	100%	0.001877491
88	APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targets	11601	22	68	32%	0.001880753
89	Association of Tric/CCT with target proteins during biosynthesis	11960	10	21	48%	0.002017946
90	G alpha (q) signalling events	11869	9	18	50%	0.002396321
91	CD28 co-stimulation	11561	6	9	67%	0.00255107
92	NICD traffics to nucleus	11924	6	9	67%	0.00255107
93	PI3K/AKT activation	11899	6	9	67%	0.00255107
94	Circadian Clock	11768	9	19	47%	0.003742998
95	RNA Polymerase I Promoter Opening	11500	5	7	71%	0.00432736
96	Signalling to RAS	11906	5	7	71%	0.00432736
97	TRAF6 Mediated Induction of proinflammatory cytokines	11474	5	7	71%	0.00432736
98	Association of licensing factors with the pre-replicative complex	11619	7	13	54%	0.004901071
99	Cyclin D associated events in G1	11600	7	13	54%	0.004901071
100	Acetylcholine Neurotransmitter Release Cycle	11686	6	10	60%	0.004988334
101	GRB2:SOS provides linkage to MAPK signaling for Integrins	11704	6	10	60%	0.004988334
102	p130Cas linkage to MAPK signaling for integrins	11703	6	10	60%	0.004988334
103	Apoptotic cleavage of cellular proteins	11746	8	17	47%	0.00673836
104	Post-chaperonin tubulin folding pathway	11959	8	17	47%	0.00673836
105	G2/M DNA damage checkpoint	11579	4	5	80%	0.006863086
106	MyD88 dependent cascade initiated on endosome	11470	4	5	80%	0.006863086
107	Netrin mediated repulsion signals	11791	4	5	80%	0.006863086
108	Notch-HLH transcription pathway	11503	4	5	80%	0.006863086
109	PI-3K cascade	11832	4	5	80%	0.006863086
110	SMAC binds to IAPs	11733	4	5	80%	0.006863086
111	SMAC-mediated dissociation of IAP:caspase complexes	11734	4	5	80%	0.006863086
112	Cyclin E associated events during G1/S transition	11596	7	14	50%	0.007774271
113	Glutamate Neurotransmitter Release Cycle	11683	7	14	50%	0.007774271
114	Beta-catenin phosphorylation cascade	11837	6	11	55%	0.008691627
115	Norepinephrine Neurotransmitter Release Cycle	11684	6	11	55%	0.008691627
116	Recruitment of NuMA to mitotic centrosomes	11624	6	11	55%	0.008691627
117	Retrograde neurotrophin signalling	11908	6	11	55%	0.008691627
118	SEMA3A-Plexin repulsion signaling by inhibiting Integrin adhesion	11773	6	11	55%	0.008691627
119	ERK1 activation	11460	3	3	100%	0.009219503
120	Interleukin-1 signaling	11489	3	3	100%	0.009219503
121	NF-kB activation through FADD/RIP-1 pathway mediated by caspase-8 and	11488	3	3	100%	0.009219503
122	Signaling by NODAL	11807	3	3	100%	0.009219503
123	Stabilization of p53	11571	3	3	100%	0.009219503
124	c-src mediated regulation of Cx43 function and closure of gap junctions	11939	3	3	100%	0.009219503
125	RNA Polymerase II Pre-transcription Events	11548	18	61	30%	0.013402387
126	Processing of Capped Intron-Containing Pre-mRNA	11520	13	39	33%	0.013515786
127	CRMPs in Sema3A signaling	11775	6	12	50%	0.014305802
128	PD-1 signaling	11562	6	12	50%	0.014305802
129	Golgi Associated Vesicle Biogenesis	11934	11	31	35%	0.014591232
130	IRS activation	11889	4	6	67%	0.016156253
131	NADE modulates death signalling	11918	4	6	67%	0.016156253
132	Release of eIF4E	11881	4	6	67%	0.016156253
133	ERK/MAPK targets	11465	7	16	44%	0.017312049
134	Regulation of Insulin Secretion	11347	7	16	44%	0.017312049
135	Insulin Synthesis and Processing	11797	8	20	40%	0.018958006
136	Lysosome Vesicle Biogenesis	11935	9	24	38%	0.019361587
137	Cyclin A/B1 associated events during G2/M transition	11627	6	13	46%	0.021869274

138	Trafficking of AMPA receptors	11688	6	13	46%	0.021869274
139	Elongation arrest and recovery	11496	11	33	33%	0.023272811
140	Pausing and recovery of elongation	11933	11	33	33%	0.023272811
141	Activation of PKB	11878	3	4	75%	0.029041144
142	Axonal growth stimulation	11913	3	4	75%	0.029041144
143	Fatty Acyl-CoA Biosynthesis	11433	3	4	75%	0.029041144
144	Phosphorylation of proteins involved in G1/S transition by active Cyclin E:Cdk2	11595	3	4	75%	0.029041144
145	Role of second messengers in netrin-1 signaling	11790	3	4	75%	0.029041144
146	mTOR signalling	11885	3	4	75%	0.029041144
147	Activation of the mRNA upon binding of the cap-binding complex and eIFs, eIF4E	11546	4	7	57%	0.030138138
148	Late stage (branching morphogenesis) pancreatic bud precursor cells	11969	4	7	57%	0.030138138
149	Regulation of gene expression in late stage (branching morphogenesis) pancreatic bud precursor cells	11801	4	7	57%	0.030138138
150	Cyclin A:Cdk2-associated events at S phase entry	11585	6	14	43%	0.031194774
151	G-protein activation	11872	5	11	45%	0.040605503
152	Hormone-sensitive lipase (HSL)-mediated triacylglycerol hydrolysis	11416	5	11	45%	0.040605503
153	RNA Polymerase II Promoter Escape	11552	12	41	29%	0.04624533
154	RNA Polymerase II Transcription Initiation	11553	12	41	29%	0.04624533
155	RNA Polymerase II Transcription Initiation And Promoter Clearance	11554	12	41	29%	0.04624533
156	RNA Polymerase II Transcription Pre-Initiation And Promoter Opening	11547	12	41	29%	0.04624533
157	AKT-mediated inactivation of FOXO1A	11802	2	2	100%	0.046762678
158	Activation of Chaperones by IRE1alpha	11795	2	2	100%	0.046762678
159	Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon	11478	2	2	100%	0.046762678
160	DNA Damage Recognition in GG-NER	11651	2	2	100%	0.046762678
161	ERK2 activation	11459	2	2	100%	0.046762678
162	Formation of tubulin folding intermediates by CCT/TriC	10954	2	2	100%	0.046762678
163	Inhibition of HSL	11763	2	2	100%	0.046762678
164	Localization of the PINCH-ILK-PARVIN complex to focal adhesions	12000	2	2	100%	0.046762678
165	PDE3B signalling	11886	2	2	100%	0.046762678
166	RAF activation	11492	2	2	100%	0.046762678
167	Transcriptional activation of cell cycle inhibitor p21	11572	2	2	100%	0.046762678
168	NRAGE signals death through JNK	11920	4	8	50%	0.048578563
169	Sema4D mediated inhibition of cell attachment and migration	11771	4	8	50%	0.048578563
170	RNA Polymerase II Transcription Elongation	11551	12	42	29%	0.052175418
171	G beta:gamma signalling through PLC beta	11867	3	5	60%	0.05476897
172	G2 Phase	11621	3	5	60%	0.05476897
173	Negative regulation of the PI3K/AKT network	11814	3	5	60%	0.05476897
174	Neurophilin interactions with VEGF and VEGFR	11895	3	5	60%	0.05476897
175	RIG-I/MDA5 mediated induction of IFN-alpha/beta pathways	11495	3	5	60%	0.05476897
176	Rho GTPase cycle	11931	3	5	60%	0.05476897
177	S6K1-mediated signalling	11880	3	5	60%	0.05476897
178	SHC1 events in EGFR signaling	11811	3	5	60%	0.05476897
179	Toll Like Receptor 9 (TLR9) Cascade	11472	3	5	60%	0.05476897

Table S4. Gene expression analysis of macrophage responses to *Legionella* infection - Number of mRNA molecules was determined by nanoString analysis of cell lysates from BMMs infected for 3hrs with L.p. or dotA at MOI of 10

Biological function	Gene name	mRNA Molecular Counts			Counts [\log_2]			Fold induction		
		Uninfected	L.p.	dotA	Uninfected	L.p.	dotA	Uninfected	L.p.	dotA
Housekeeping genes	Cltc	5897	6062	6012	12.53	12.57	12.55	1.00	1.03	1.02
	Gapdh	5224	5430	5429	12.35	12.41	12.41	1.00	1.04	1.04
	Gusb	4266	2783	2973	12.06	11.44	11.54	1.00	0.65	0.70
	Pgk1	1144	1741	1547	10.16	10.77	10.60	1.00	1.52	1.35
	Tubb5	1369	674	665	10.42	9.40	9.38	1.00	0.49	0.49
	Hprt	628	587	592	9.29	9.20	9.21	1.00	0.93	0.94
Cytokines genes	Ccl3	1895	91163	74651	10.89	16.48	16.19	1.00	48.11	39.39
	Ccl4	2497	79517	71631	11.29	16.28	16.13	1.00	31.85	28.69
	Tnf	2718	58822	46925	11.41	15.84	15.52	1.00	21.64	17.26
	Il1b	197	56244	49505	7.62	15.78	15.60	1.00	285.50	251.29
	Cxcl2	696	36962	23963	9.44	15.17	14.55	1.00	53.11	34.43
	C1qb	25892	24830	25977	14.66	14.60	14.66	1.00	0.96	1.00
	Ccl5	627	20417	18579	9.29	14.32	14.18	1.00	32.56	29.63
	Cxcl3	19	10418	7881	4.25	13.35	12.94	1.00	548.32	414.79
	Il1a	12	6921	4008	3.58	12.76	11.97	1.00	576.75	334.00
	Cxcl10	299	6622	7130	8.22	12.69	12.80	1.00	22.15	23.85
	Tgfb1	3758	4557	4345	11.88	12.15	12.09	1.00	1.21	1.16
	C1qa	4992	4264	4463	12.29	12.06	12.12	1.00	0.85	0.89
	Il12b	13	3738	3186	3.70	11.87	11.64	1.00	287.54	245.08
	Il6	2	3502	3235	1.00	11.77	11.66	1.00	1751.00	1617.50
	Il15	102	2123	2035	6.67	11.05	10.99	1.00	20.81	19.95
	Ccl2	109	2042	1696	6.77	11.00	10.73	1.00	18.73	15.56
	Csf1	46	1292	971	5.52	10.34	9.92	1.00	28.09	21.11
	Il18	94	831	898	6.55	9.70	9.81	1.00	8.84	9.55
	Cxcl1	5	712	340	2.32	9.48	8.41	1.00	142.40	68.00
	Csf2	5	648	190	2.32	9.34	7.57	1.00	129.60	38.00
	Ccl22	9	447	434	3.17	8.80	8.76	1.00	49.67	48.22
	Cxcl9	7	155	183	2.81	7.28	7.52	1.00	22.14	26.14
	Ccl7	14	153	202	3.81	7.26	7.66	1.00	10.93	14.43
	Il12a	4	109	91	2.00	6.77	6.51	1.00	27.25	22.75
	Il23a	2	97	33	1.00	6.60	5.04	1.00	48.50	16.50
	Ccl17	4	95	81	2.00	6.57	6.34	1.00	23.75	20.25
	Ccl24	10	75	87	3.32	6.23	6.44	1.00	7.50	8.70
	Cxcl5	8	73	52	3.00	6.19	5.70	1.00	9.13	6.50
	Ccl8	13	72	44	3.70	6.17	5.46	1.00	5.54	3.38
	Ifnb1	1	71	30	0.00	6.15	4.91	1.00	71.00	30.00
	Csf3	1	69	54	0.00	6.11	5.75	1.00	69.00	54.00
	Il3	10	61	39	3.32	5.93	5.29	1.00	6.10	3.90
Il10	12	41	49	3.58	5.36	5.61	1.00	3.42	4.08	
Ccl19	7	36	26	2.81	5.17	4.70	1.00	5.14	3.71	
Tgfb2	10	30	29	3.32	4.91	4.86	1.00	3.00	2.90	
Il11	12	28	29	3.58	4.81	4.86	1.00	2.33	2.42	
Il2	4	28	25	2.00	4.81	4.64	1.00	7.00	6.25	
Tgfb3	9	27	31	3.17	4.75	4.95	1.00	3.00	3.44	
Fasl	10	11	6	3.32	3.46	2.58	1.00	1.10	0.60	

	Ifna1	0	7	7	#NUM!	2.81	2.81	#DIV/0!	#DIV/0!	#DIV/0!
	Il4	5	7	6	2.32	2.81	2.58	1.00	1.40	1.20
	Il7	2	7	3	1.00	2.81	1.58	1.00	3.50	1.50
	Il13	2	6	7	1.00	2.58	2.81	1.00	3.00	3.50
	Il18rap	2	6	16	1.00	2.58	4.00	1.00	3.00	8.00
	Il5	3	6	3	1.58	2.58	1.58	1.00	2.00	1.00
	Ccl11	5	5	6	2.32	2.32	2.58	1.00	1.00	1.20
	Ifng	1	5	1	0.00	2.32	0.00	1.00	5.00	1.00
	Il22	1	3	2	0.00	1.58	1.00	1.00	3.00	2.00
	Ccl21a	0	2	5	#NUM!	1.00	2.32	#DIV/0!	#DIV/0!	#DIV/0!
	Il9	0	0	6	#NUM!	#NUM!	2.58	#DIV/0!	#DIV/0!	#DIV/0!
Non-cytokine immune genes	C3ar1	12139	12386	12969	13.57	13.60	13.66	1.00	1.02	1.07
	Cd40	224	9567	8243	7.81	13.22	13.01	1.00	42.71	36.80
	Cdc42	7149	8453	8548	12.80	13.05	13.06	1.00	1.18	1.20
	Mapkapk	2213	7470	7093	11.11	12.87	12.79	1.00	3.38	3.21
	Nfe2l2	2998	5478	5196	11.55	12.42	12.34	1.00	1.83	1.73
	Nfkb1	788	5043	4610	9.62	12.30	12.17	1.00	6.40	5.85
	Itgb2	5031	4659	4481	12.30	12.19	12.13	1.00	0.93	0.89
	Rhoa	3846	3881	3956	11.91	11.92	11.95	1.00	1.01	1.03
	Gnas	4456	3596	3583	12.12	11.81	11.81	1.00	0.81	0.80
	Cebpb	1139	2701	2359	10.15	11.40	11.20	1.00	2.37	2.07
	C3	799	2543	2630	9.64	11.31	11.36	1.00	3.18	3.29
	Tlr2	1546	2492	2464	10.59	11.28	11.27	1.00	1.61	1.59
	Map2k1	1093	2074	1918	10.09	11.02	10.91	1.00	1.90	1.75
	Gnb1	1095	1767	1790	10.10	10.79	10.81	1.00	1.61	1.63
	Il10rb	1853	1667	1553	10.86	10.70	10.60	1.00	0.90	0.84
	Ripk2	193	1550	1507	7.59	10.60	10.56	1.00	8.03	7.81
	Mapk3	1920	1511	1570	10.91	10.56	10.62	1.00	0.79	0.82
	Myd88	517	1453	1411	9.01	10.50	10.46	1.00	2.81	2.73
	Rapgef2	226	1352	1164	7.82	10.40	10.18	1.00	5.98	5.15
	Rac1	1382	1279	1343	10.43	10.32	10.39	1.00	0.93	0.97
	Tlr7	854	1186	1144	9.74	10.21	10.16	1.00	1.39	1.34
	Stat1	436	1171	1202	8.77	10.19	10.23	1.00	2.69	2.76
	Grb2	1469	947	982	10.52	9.89	9.94	1.00	0.64	0.67
	Map3k5	157	821	623	7.29	9.68	9.28	1.00	5.23	3.97
	Tollip	649	788	803	9.34	9.62	9.65	1.00	1.21	1.24
	Mapk14	800	744	767	9.64	9.54	9.58	1.00	0.93	0.96
	Gnaq	517	743	688	9.01	9.54	9.43	1.00	1.44	1.33
	Shc1	579	693	651	9.18	9.44	9.35	1.00	1.20	1.12
	Raf1	568	685	633	9.15	9.42	9.31	1.00	1.21	1.11
	Nr3c1	408	683	704	8.67	9.42	9.46	1.00	1.67	1.73
	Ddit3	569	682	699	9.15	9.41	9.45	1.00	1.20	1.23
	Atf2	508	629	639	8.99	9.30	9.32	1.00	1.24	1.26
	Myc_m	252	626	616	7.98	9.29	9.27	1.00	2.48	2.44
	Tlr1	199	622	597	7.64	9.28	9.22	1.00	3.13	3.00
	Maff	42	558	312	5.39	9.12	8.29	1.00	13.29	7.43
	Jun	434	531	206	8.76	9.05	7.69	1.00	1.22	0.47
	Daxx	77	480	511	6.27	8.91	9.00	1.00	6.23	6.64
	Tgfr1	936	469	398	9.87	8.87	8.64	1.00	0.50	0.43
	Rock2	314	463	421	8.29	8.85	8.72	1.00	1.47	1.34
	Ly96	347	436	426	8.44	8.77	8.73	1.00	1.26	1.23
	Map3k7	391	433	392	8.61	8.76	8.61	1.00	1.11	1.00
	Mapk1	401	410	358	8.65	8.68	8.48	1.00	1.02	0.89
	Hmgn1	438	359	380	8.77	8.49	8.57	1.00	0.82	0.87
	H2-Eb1	212	332	343	7.73	8.38	8.42	1.00	1.57	1.62

Tlr6	245	316	346	7.94	8.30	8.43	1.00	1.29	1.41
Cfl1	243	280	259	7.92	8.13	8.02	1.00	1.15	1.07
Mapkapk	235	279	298	7.88	8.12	8.22	1.00	1.19	1.27
Mapk8	110	252	251	6.78	7.98	7.97	1.00	2.29	2.28
Traf2	115	250	255	6.85	7.97	7.99	1.00	2.17	2.22
Tlr4	372	242	256	8.54	7.92	8.00	1.00	0.65	0.69
Nox1	20	238	197	4.32	7.89	7.62	1.00	11.90	9.85
Prkcb	214	228	242	7.74	7.83	7.92	1.00	1.07	1.13
Fos	1631	227	156	10.67	7.83	7.29	1.00	0.14	0.10
Max	166	213	192	7.38	7.73	7.58	1.00	1.28	1.16
Mef2d	274	207	191	8.10	7.69	7.58	1.00	0.76	0.70
Ccr2	528	200	207	9.04	7.64	7.69	1.00	0.38	0.39
Mknk1	285	198	245	8.15	7.63	7.94	1.00	0.69	0.86
Tradd	264	190	216	8.04	7.57	7.75	1.00	0.72	0.82
Pla2g4a	45	188	173	5.49	7.55	7.43	1.00	4.18	3.84
Map2k4	128	173	177	7.00	7.43	7.47	1.00	1.35	1.38
Keap1	153	163	183	7.26	7.35	7.52	1.00	1.07	1.20
Mef2a	76	157	140	6.25	7.29	7.13	1.00	2.07	1.84
Nfatc3	198	155	167	7.63	7.28	7.38	1.00	0.78	0.84
Nos2	5	150	145	2.32	7.23	7.18	1.00	30.00	29.00
Cfb	122	149	141	6.93	7.22	7.14	1.00	1.22	1.16
Mafg	167	147	138	7.38	7.20	7.11	1.00	0.88	0.83
Mef2c	561	147	159	9.13	7.20	7.31	1.00	0.26	0.28
Il6ra	550	137	124	9.10	7.10	6.95	1.00	0.25	0.23
Bcl6	267	114	118	8.06	6.83	6.88	1.00	0.43	0.44
Tlr3	70	110	130	6.13	6.78	7.02	1.00	1.57	1.86
Rps6ka5	55	100	89	5.78	6.64	6.48	1.00	1.82	1.62
Mafk	57	99	108	5.83	6.63	6.75	1.00	1.74	1.89
Ccr3	61	94	92	5.93	6.55	6.52	1.00	1.54	1.51
Cxcr4	1063	93	78	10.05	6.54	6.29	1.00	0.09	0.07
Map3k1	277	87	92	8.11	6.44	6.52	1.00	0.31	0.33
Limk1	165	82	82	7.37	6.36	6.36	1.00	0.50	0.50
Ripk1	133	80	87	7.06	6.32	6.44	1.00	0.60	0.65
Il1rap	72	75	71	6.17	6.23	6.15	1.00	1.04	0.99
Pdgfa	206	73	77	7.69	6.19	6.27	1.00	0.35	0.37
Elk1	36	58	58	5.17	5.86	5.86	1.00	1.61	1.61
Hdac4	81	52	51	6.34	5.70	5.67	1.00	0.64	0.63
Il1rn	12	49	37	3.58	5.61	5.21	1.00	4.08	3.08
Ccr1	53	46	54	5.73	5.52	5.75	1.00	0.87	1.02
Il1r1	11	41	28	3.46	5.36	4.81	1.00	3.73	2.55
Cd55	5	38	35	2.32	5.25	5.13	1.00	7.60	7.00
Creb1	43	38	30	5.43	5.25	4.91	1.00	0.88	0.70
C1ra	24	37	30	4.58	5.21	4.91	1.00	1.54	1.25
Ccr7	3	37	30	1.58	5.21	4.91	1.00	12.33	10.00
Masp1	13	37	25	3.70	5.21	4.64	1.00	2.85	1.92
Hspb2	3	34	23	1.58	5.09	4.52	1.00	11.33	7.67
Ptk2	25	34	28	4.64	5.09	4.81	1.00	1.36	1.12
H2-Ea-ps	7	20	16	2.81	4.32	4.00	1.00	2.86	2.29
C8a	4	17	22	2.00	4.09	4.46	1.00	4.25	5.50
Crp	1	17	17	0.00	4.09	4.09	1.00	17.00	17.00
Lta	7	15	17	2.81	3.91	4.09	1.00	2.14	2.43
Hras1	9	13	9	3.17	3.70	3.17	1.00	1.44	1.00
Cd4	29	12	15	4.86	3.58	3.91	1.00	0.41	0.52
Kng1	3	12	16	1.58	3.58	4.00	1.00	4.00	5.33
Ltb	8	12	8	3.00	3.58	3.00	1.00	1.50	1.00

Myl2	4	12	5	2.00	3.58	2.32	1.00	3.00	1.25
Cxcr1	10	11	13	3.32	3.46	3.70	1.00	1.10	1.30
Map2k6	12	11	8	3.58	3.46	3.00	1.00	0.92	0.67
C1s	1	9	2	0.00	3.17	1.00	1.00	9.00	2.00
Cd40lg	2	9	7	1.00	3.17	2.81	1.00	4.50	3.50
Hspb1	7	8	6	2.81	3.00	2.58	1.00	1.14	0.86
Il22ra2	1	8	3	0.00	3.00	1.58	1.00	8.00	3.00
C2	4	7	6	2.00	2.81	2.58	1.00	1.75	1.50
C4a	8	7	6	3.00	2.81	2.58	1.00	0.88	0.75
Ccr4	11	7	7	3.46	2.81	2.81	1.00	0.64	0.64
Fxyd2	3	7	6	1.58	2.81	2.58	1.00	2.33	2.00
Hc	2	6	0	1.00	2.58	#NUM!	1.00	3.00	0.00
Map3k9	25	6	7	4.64	2.58	2.81	1.00	0.24	0.28
Masp2	2	6	3	1.00	2.58	1.58	1.00	3.00	1.50
Tlr5	2	6	6	1.00	2.58	2.58	1.00	3.00	3.00
C6	2	5	6	1.00	2.32	2.58	1.00	2.50	3.00
Cxcr2	1	5	8	0.00	2.32	3.00	1.00	5.00	8.00
Il23r	0	5	3	#NUM!	2.32	1.58	#DIV/0!	#DIV/0!	#DIV/0!
Ppp1r12l	16	5	7	4.00	2.32	2.81	1.00	0.31	0.44
Prkca	5	5	8	2.32	2.32	3.00	1.00	1.00	1.60
Tnfsf14	8	5	6	3.00	2.32	2.58	1.00	0.63	0.75
Cfd	2	4	3	1.00	2.00	1.58	1.00	2.00	1.50
Mbl2	4	4	3	2.00	2.00	1.58	1.00	1.00	0.75
Pik3c2g	1	3	5	0.00	1.58	2.32	1.00	3.00	5.00
C9	4	2	2	2.00	1.00	1.00	1.00	0.50	0.50
Gngt1	3	2	3	1.58	1.00	1.58	1.00	0.67	1.00
C7	3	1	6	1.58	0.00	2.58	1.00	0.33	2.00
C8b	0	1	0	#NUM!	0.00	#NUM!	#DIV/0!	#DIV/0!	#DIV/0!
Mef2b	3	1	1	1.58	0.00	0.00	1.00	0.33	0.33
Plcb1	3	1	2	1.58	0.00	1.00	1.00	0.33	0.67