

#### 4. Complete differentially expressed genes (DEG) list

##### 4.1. 8-week DEGs

This is the complete list of 822 DEGs between diabetic (db/db) and control (db/+) mouse hippocampus at 8 weeks of age.

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
11486	100	Ada	adenosine deaminase	2.31	9.94E-02
11492	8728	Adam19	a disintegrin and metallopeptidase domain 19 (meltrin beta)	0.71	3.41E-02
11666	215	Abcd1	ATP-binding cassette, sub-family D (ALD), member 1	0.73	6.28E-02
11770	2167	Fabp4	fatty acid binding protein 4, adipocyte	0.19	4.16E-02
12040	594	Bckdhb	branched chain ketoacid dehydrogenase E1, beta polypeptide	0.86	4.43E-02
12140	2173	Fabp7	fatty acid binding protein 7, brain	0.73	6.68E-02
12575	1026	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)	3.46	1.43E-02
12615	1058	Cenpa	centromere protein A	1.72	9.44E-02
12626	1070	Cetn3	centrin 3	1.15	4.44E-02
12696	1153	Cirbp	cold inducible RNA binding protein	1.44	2.26E-02
12733	1187	Clcnka	chloride channel Ka	1.69	4.45E-02
12798	1265	Cnn2	calponin 2	1.39	7.21E-02
13516	1833	Epyc	epiphycan	0.64	7.21E-02
13537	1844	Dusp2	dual specificity phosphatase 2	1.33	9.30E-02
13885	2098	Esd	esterase D/formylglutathione hydrolase	0.79	9.30E-02
14155	10116	Fem1b	feminization 1 homolog b (C. elegans)	1.59	3.86E-02
14229	2289	Fkbp5	FK506 binding protein 5	1.49	2.59E-02
14231	51661	Fkbp7	FK506 binding protein 7	1.24	8.16E-02
14296	10023	Frat1	frequently rearranged in advanced T-cell lymphomas	1.5	4.64E-02
14409	2570	Gabbr2	gamma-aminobutyric acid (GABA) C receptor, subunit rho 2	2.12	4.44E-02
14958	3005	H1f0	H1 histone family, member 0	1.12	6.32E-02
14961	3119	H2-Ab1	histocompatibility 2, class II antigen A, beta 1	1.4	8.19E-02
15483	3290	Hsd11b1	hydroxysteroid 11-beta dehydrogenase 1	1.14	8.64E-02
16493	3741	Kcna5	potassium voltage-gated channel, shaker-related subfamily, member 5	1.54	4.18E-02
16526	3776	Kcnk2	potassium channel, subfamily K, member 2	1.11	9.30E-02
16538	3787	Kcns1	K <sup>+</sup> voltage-gated channel, subfamily S, 1	1.34	7.27E-02
16560	547	Kif1a	kinesin family member 1A	1.39	4.64E-02

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16581	90990	Kifc2	kinesin family member C2	1.13	8.12E-02
16601	687	Klf9	Kruppel-like factor 9	1.25	4.09E-02
16992	4049	Lta	lymphotoxin A	1.92	5.51E-02
17133	23764	Maff	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)	1.62	3.37E-02
17135	7975	Mafk	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein K (avian)	1.39	4.16E-02
18036	4793	Nfkbib	nuclear factor of kappa light polypeptide gene enhancer in B- cells inhibitor, beta	1.33	5.51E-02
18117	10328	Cox4nb	COX4 neighbor	1.21	5.82E-02
18130	26512	Ints6	integrator complex subunit 6	0.73	5.59E-02
18286	4957	Odf2	outer dense fiber of sperm tails 2	1.31	4.30E-02
18439	5027	P2rx7	purinergic receptor P2X, ligand-gated ion channel, 7	0.75	5.69E-02
18518	3476	Igbp1	immunoglobulin (CD79A) binding protein 1	1.14	4.64E-02
18616	5178	Peg3	paternally expressed 3	0.82	8.19E-02
18667	5241	Pgr	progesterone receptor	0.8	8.88E-02
19650	5933	Rbl1	retinoblastoma-like 1 (p107)	0.59	3.45E-02
19720	5987	Trim27	tripartite motif-containing 27	0.87	9.07E-02
19752	6035	Rnase1	ribonuclease, RNase A family, 1 (pancreatic)	0.57	2.98E-02
19895	22934	Rpia	ribose 5-phosphate isomerase A	0.8	4.53E-02
20295	6361	Ccl17	chemokine (C-C motif) ligand 17	1.91	1.12E-03
20467	23309	Sin3b	transcriptional regulator, SIN3B (yeast)	1.21	2.59E-02
20846	6772	Stat1	signal transducer and activator of transcription 1	0.81	9.65E-02
20887	6817	Sult1a1	sulfotransferase family 1A, phenol-preferring, member 1	1.75	2.59E-02
21956	7139	Tnnt2	troponin T2, cardiac	1.71	6.24E-02
22127		Tsx	testis specific X-linked gene	1.83	8.30E-02
22590	7507	Xpa	xeroderma pigmentosum, complementation group A	1.41	4.44E-02
22619	54414	Siae	sialic acid acetyltransferase	0.84	8.16E-02
22632	7528	Yy1	YY1 transcription factor	0.88	6.69E-02
23954	4752	Nek3	NIMA (never in mitosis gene a)-related expressed kinase 3	0.69	8.73E-02
26404	7786	Map3k12	mitogen-activated protein kinase kinase kinase 12	1.15	8.64E-02
26939	55718	Polr3e	polymerase (RNA) III (DNA directed) polypeptide E	1.8	6.62E-02
26942	6674	Spag1	sperm associated antigen 1	0.8	8.16E-02
27274	117608	Zfp354b	zinc finger protein 354B	0.65	3.45E-02

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28081	84923	D11Wsu99e	DNA segment, Chr 11, Wayne State University 99, expressed	1.14	8.63E-02
53413	23265	Exoc7	exocyst complex component 7	1.13	9.65E-02
53945	30061	Slc40a1	solute carrier family 40 (iron-regulated transporter), member 1	0.71	4.47E-02
56310	2874	Gps2	G protein pathway suppressor 2	1.2	9.30E-02
56314	7551	Zfp113	zinc finger protein 113	0.72	3.41E-02
56368	11068	Cyb561d2	cytochrome b-561 domain containing 2	0.81	6.32E-02
56454	5832	Aldh18a1	aldehyde dehydrogenase 18 family, member A1	0.78	6.59E-02
56771	9477	Med20	mediator complex subunit 20	0.8	7.27E-02
56874	140545	Rnf32	ring finger protein 32	0.75	8.30E-02
57321	54386	Terf2ip	telomeric repeat binding factor 2, interacting protein	1.29	3.45E-02
57435	729359	Plin4	perilipin 4	2.64	2.17E-02
58801	5366	Pmaip1	phorbol-12-myristate-13-acetate-induced protein 1	1.98	2.59E-02
63828	64122	Fn3k	fructosamine 3 kinase	0.82	8.14E-02
64209	9709	Herpud1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	1.2	7.27E-02
64934	23481	Pes1	pescadillo homolog 1, containing BRCT domain (zebrafish)	0.68	2.59E-02
66059	200185	Krtcap2	keratinocyte associated protein 2	0.94	9.96E-02
66060	84418	0610010O12Rik	RIKEN cDNA 0610010O12 gene	1.34	8.03E-02
66131	54962	Tipin	timeless interacting protein	1.2	9.31E-02
66172	400569	Med11	mediator of RNA polymerase II transcription, subunit 11	0.82	6.16E-02
66277	28999	Klf15	homolog ( <i>S. cerevisiae</i> )	1.55	3.37E-02
66360	92482	2310002J21Rik	Kruppel-like factor 15	0.89	4.23E-02
66412	91947	Arrdc4	RIKEN cDNA 2310002J21 gene	1.36	8.88E-02
66493	51258	Mrpl51	arrestin domain containing 4	0.61	4.44E-02
66522	54858	Pgpep1	mitochondrial ribosomal protein L51	0.76	8.16E-02
66583	51013	Exosc1	pyroglutamyl-peptidase I	1.13	9.30E-02
66610	51225	Abi3	exosome component 1	0.71	7.57E-02
66662		5730577I03Rik	ABI gene family, member 3	1.5	4.73E-02
66824	29108	Pycard	RIKEN cDNA 5730577I03 gene	0.74	6.59E-02
66853	57104	Pnpla2	PYD and CARD domain containing	1.39	7.27E-02
66917	26973	Chordc1	patatin-like phospholipase domain containing 2	0.76	5.51E-02
66967	80267	Edem3	cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1	0.88	7.57E-02
			ER degradation enhancer, mannosidase alpha-like 3		

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67062	401612	Mcart6	mitochondrial carrier triple repeat 6	0.81	8.55E-02
67088	23066	Cand2	cullin-associated and neddylation-dissociated 2 (putative)	0.64	4.18E-02
67225	55599	Rnpc3	RNA-binding region (RNP1, RRM) containing 3	0.77	9.29E-02
67263	57688	Zswim6	zinc finger, SWIM domain containing 6	0.83	8.64E-02
67446	285193	Dusp28	dual specificity phosphatase 28	1.23	5.11E-02
67477	116236	Abhd15	abhydrolase domain containing 15	1.55	2.59E-02
67493	79066	Mett10d	methyltransferase 10 domain containing	0.78	6.59E-02
67770	79886	5830433M19Rik	RIKEN cDNA 5830433M19 gene	0.68	2.98E-02
67832	55299	Bxdc2	brix domain containing 2	0.73	4.44E-02
67862	79169	2310033P09Rik	RIKEN cDNA 2310033P09 gene	0.72	4.20E-02
67871	92399	Mrrf	mitochondrial ribosome recycling factor	0.78	5.45E-02
67880	51181	Dcxr	dicarbonyl L-xylulose reductase	1.22	8.64E-02
67980	132789	Gnpda2	glucosamine-6-phosphate deaminase 2	0.81	5.51E-02
67996	6431	Sfrs6	splicing factor, arginine/serine-rich 6	1.15	6.55E-02
68033	90639	Cox19	COX19 cytochrome c oxidase assembly homolog (S. cerevisiae)	0.83	3.86E-02
68082	142679	Dusp19	dual specificity phosphatase 19	0.76	7.92E-02
68115	79568	9430016H08Rik	RIKEN cDNA 9430016H08 gene	1.21	4.44E-02
68310	79830	Zmym1	zinc finger, MYM domain containing 1	0.66	4.44E-02
68763	50854	1110038B12Rik	RIKEN cDNA 1110038B12 gene	1.22	5.51E-02
68832	60526	1110057K04Rik	RIKEN cDNA 1110057K04 gene	0.82	8.64E-02
69028	129531	Mitd1	MIT, microtubule interacting and transport, domain containing 1	0.78	5.45E-02
69113	221120	Alkbh3	alkB, alkylation repair homolog 3 (E. coli)	1.31	4.18E-02
69221		2410006H16Rik	RIKEN cDNA 2410006H16 gene	1.23	7.21E-02
69260	3622	Ing2	inhibitor of growth family, member 2	1.26	5.11E-02
69309	201232	Slc16a13	solute carrier family 16 (monocarboxylic acid transporters), member 13	0.71	7.21E-02
69434	283596	Snhg10	small nucleolar RNA host gene (non-protein coding) 10	1.24	9.30E-02
69478	145853	2300009A05Rik	RIKEN cDNA 2300009A05 gene	1.31	9.07E-02
69671	339456	Tmem52	transmembrane protein 52	1.72	9.39E-02
70369	9529	Bag5	BCL2-associated athanogene 5	1.22	8.55E-02
70533	91408	Btf3l4	basic transcription factor 3-like 4	1.28	4.44E-02
70807	27106	Arrdc2	arrestin domain containing 2	2.3	2.17E-02

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70967	59271	4931408A02Rik	RIKEN cDNA 4931408A02 gene	1.49	4.05E-02
70981		4931423N10Rik	RIKEN cDNA 4931423N10 gene	1.51	7.83E-02
71020	221409	Spats1	spermatogenesis associated, serine-rich 1	0.58	3.41E-02
71151	112479	Exod1	exonuclease domain containing 1	0.8	6.68E-02
71373	51334	Prr16	proline rich 16	0.55	6.68E-02
71599	123228	Senp8	SUMO/sentrin specific peptidase 8	0.57	2.26E-02
71704	50650	Arhgef3	Rho guanine nucleotide exchange factor (GEF) 3	1.37	3.53E-02
71760	64850	Agxt211	alanine-glyoxylate aminotransferase 2-like 1	2.29	7.42E-02
71970	114821	Scand3	SCAN domain containing 3	0.78	8.76E-02
72050	79070	Kdelc1	KDEL (Lys-Asp-Glu-Leu) containing 1	0.75	4.00E-02
72634	11022	Tdrkh	tudor and KH domain containing protein	1.29	5.45E-02
72655		2810026P18Rik	RIKEN cDNA 2810026P18 gene	1.27	3.37E-02
72720	57209	Zfp248	zinc finger protein 248	0.73	8.16E-02
72807		Zfp429	zinc finger protein 429	0.63	4.44E-02
73533		1700080G18Rik	RIKEN cDNA 1700080G18 gene	1.77	1.07E-02
73668	79809	Ttc21b	tetratricopeptide repeat domain 21B	0.71	4.45E-02
73893	338949	Tmem202	transmembrane protein 202	1.31	5.59E-02
74189	116154	Phactr3	phosphatase and actin regulator 3	1.21	8.88E-02
74191	53829	P2ry13	purinergic receptor P2Y, G-protein coupled 13	0.68	4.44E-02
74197	2960	Gtf2e1	general transcription factor II E, polypeptide 1 (alpha subunit)	0.8	7.21E-02
74205	2181	Acsl3	acyl-CoA synthetase long-chain family member 3	1.14	6.07E-02
74255	55234	Smu1	smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)	1.2	6.59E-02
74471		4933440N22Rik	RIKEN cDNA 4933440N22 gene	1.76	5.02E-02
74646	80176	Spsb1	splA/ryanodine receptor domain and SOCS box containing 1	1.44	8.55E-02
74684	146562	4930451G09Rik	RIKEN cDNA 4930451G09 gene	0.74	4.38E-02
75180	100129924	4930538K18Rik	RIKEN cDNA 4930538K18 gene	1.5	6.72E-02
75202		4930546H06Rik	RIKEN cDNA 4930546H06 gene	1.93	1.07E-02
75339	54737	Mphosph8	M-phase phosphoprotein 8	0.86	8.19E-02
75552	344838	Paqr9	progesterone and adipoQ receptor family member IX	0.82	8.19E-02
75565	112869	Ccdc101	coiled-coil domain containing 101	1.22	8.93E-02
75613	81857	Med25	mediator of RNA polymerase II transcription, subunit 25	1.2	9.31E-02
75697	388125	Fam148b	homolog (yeast)	1.9	9.30E-02
76375	55070	Det1	family with sequence similarity 148, member B	0.66	4.84E-02
			de-etiolated homolog 1 (Arabidopsis)		

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76574	84879	Mfsd2	major facilitator superfamily domain containing 2	1.4	8.73E-02
76781	64863	Mettl4	methyltransferase like 4	0.66	7.48E-02
76880		6430411K18Rik	RIKEN cDNA 6430411K18 gene	0.58	5.69E-02
76952	22978	Nt5c2	5'-nucleotidase, cytosolic II	1.18	7.21E-02
77043		4632433K11Rik	RIKEN cDNA 4632433K11 gene	1.46	2.46E-02
77125	90865	Il33	interleukin 33	0.68	5.51E-02
78449		2700046A07Rik	RIKEN cDNA 2700046A07 gene	2.14	2.93E-02
78610	7405	Uvrag	UV radiation resistance associated gene	1.28	4.43E-02
			apolipoprotein B mRNA editing enzyme, catalytic polypeptide 3		
80287	9582	Apobec3		0.62	4.09E-02
80290	115330	Gpr146	G protein-coupled receptor 146	1.31	5.51E-02
80750	9683	N4bp1	NEDD4 binding protein 1	0.8	7.27E-02
83486	10181	Rbm5	RNA binding motif protein 5	0.66	7.21E-02
83673	23642	Snhg1	small nucleolar RNA host gene (non-protein coding) 1	1.28	2.59E-02
			gamma-aminobutyric acid (GABA) A receptor-associated protein-like 2		
93739	11345	Gabarapl2		1.14	6.01E-02
94066	64979	Mrpl36	mitochondrial ribosomal protein L36	0.81	8.73E-02
98365	89886	Slamf9	SLAM family member 9	1.43	9.07E-02
98685	81627	1190005F20Rik	RIKEN cDNA 1190005F20 gene	0.62	1.43E-02
99543	56944	Olfml3	olfactomedin-like 3	0.8	8.16E-02
101185	25913	Pot1a	protection of telomeres 1A	0.72	2.31E-02
101694		AI854517	expressed sequence AI854517	1.52	3.11E-02
103784	116143	Wdr92	WD repeat domain 92	0.7	4.44E-02
107569	51251	Nt5c3	5'-nucleotidase, cytosolic III	1.19	5.72E-02
107746	2889	Rapgef1	Rap guanine nucleotide exchange factor (GEF) 1	1.2	8.19E-02
107770	53345	Tm6sf2	transmembrane 6 superfamily member 2	0.6	8.55E-02
108832	55321	5430405G05Rik	RIKEN cDNA 5430405G05 gene	0.7	6.72E-02
109019	64859	Obfc2a	oligonucleotide/oligosaccharide-binding fold containing 2A	0.68	7.27E-02
109270	55615	Prr5	proline rich 5 (renal)	1.62	5.45E-02
109346	51239	Ankrd39	ankyrin repeat domain 39	1.23	9.90E-02
116838	9699	Rims2	regulating synaptic membrane exocytosis 2	1.29	5.11E-02
140629	22888	Ubox5	U box domain containing 5	1.27	8.88E-02
140742	27244	Sesn1	sestrin 1	1.21	6.52E-02
140917	64858	Dclre1b	DNA cross-link repair 1B, PSO2 homolog ( <i>S. cerevisiae</i> )	1.47	2.98E-02

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170743	51284	Tlr7	toll-like receptor 7	1.73	4.11E-02
171285	84868	Havcr2	hepatitis A virus cellular receptor 2	1.45	8.73E-02
195434		Utp14b	UTP14, U3 small nucleolar ribonucleoprotein, homolog B (yeast)	1.51	7.92E-02
195522	51058	Zfp691	zinc finger protein 691	0.73	8.73E-02
207667	390598	Lbxcor1	ladybird homeobox 1 homolog (Drosophila) corepressor 1	1.79	7.21E-02
209707	254251	Lcorl	ligand dependent nuclear receptor corepressor-like	0.64	4.18E-02
210104	26149	Zfp658	zinc finger protein 658	0.66	4.44E-02
211798	84804	Mfsd9	major facilitator superfamily domain containing 9	0.75	6.32E-02
213081	57728	Wdr19	WD repeat domain 19	0.86	5.45E-02
214552	22897	Cep164	centrosomal protein 164	0.81	8.30E-02
214895	81562	Lman2l	lectin, mannose-binding 2-like	0.81	4.90E-02
215627	728116	Zbtb8b	zinc finger and BTB domain containing 8b	0.67	5.45E-02
215693	84460	Zmat1	zinc finger, matrin type 1	0.64	2.31E-02
216134	8566	Pdxk	pyridoxal (pyridoxine, vitamin B6) kinase	1.66	2.26E-02
217827	55051	BC002230	cDNA sequence BC002230	1.35	4.20E-02
217837	3705	Itpk1	inositol 1,3,4-triphosphate 5/6 kinase	1.25	6.22E-02
218772	5915	Rarb	retinoic acid receptor, beta	0.72	5.03E-02
219094	23351	9130227C08Rik	RIKEN cDNA 9130227C08Rik gene	0.74	2.59E-02
219103	55835	Cenpj	centromere protein J	0.69	8.14E-02
224111	26043	Ubxn7	UBX domain protein 7	0.78	6.32E-02
224523		4732491K20Rik	RIKEN cDNA 4732491K20 gene	1.4	8.55E-02
224694	55552	Zfp81	zinc finger protein 81	1.92	3.37E-02
225745	115106	Haus1	HAUS augmin-like complex, subunit 1	1.28	5.72E-02
225888	51111	Suv420h1	suppressor of variegation 4-20 homolog 1 (Drosophila)	1.5	4.44E-02
226144	10613	Erlin1	ER lipid raft associated 1	0.83	8.66E-02
226153	56652	Peo1	progressive external ophthalmoplegia 1 (human)	0.82	4.16E-02
227674	64794	Ddx31	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 31	0.77	5.09E-02
229004	26205	Gmeb2	glucocorticoid modulatory element binding protein 2	1.24	4.44E-02
229599	148523	Gm129	predicted gene 129	2.09	1.36E-02
230696	79078	AU022252	expressed sequence AU022252	0.7	4.96E-02
231214	57545	Cc2d2a	coiled-coil and C2 domain containing 2A	0.74	5.51E-02
231326	132949	Aasdh	aminoadipate-semialdehyde dehydrogenase	0.78	6.32E-02
231380	55236	Uba6	ubiquitin-like modifier activating enzyme 6	0.59	4.64E-02

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232560	65981	Caprin2	caprin family member 2	0.7	5.59E-02
232816	89887	Zfp628	zinc finger protein 628	1.46	4.38E-02
235036	56342	Ppan	peter pan homolog (Drosophila)	1.27	5.48E-02
235040	84971	Atg4d	autophagy-related 4D (yeast)	0.86	2.98E-02
235441	9960	Usp3	ubiquitin specific peptidase 3	1.41	4.16E-02
236904	80311	Klhl15	kelch-like 15 (Drosophila)	1.89	8.93E-02
240334	78991	Pcyox1l	prenylcysteine oxidase 1 like	0.75	7.57E-02
246196	11179	Zfp277	zinc finger protein 277	1.28	8.73E-02
268670		Zfp759	zinc finger protein 759	0.78	7.21E-02
269952	390637	D330012F22Rik	RIKEN cDNA D330012F22 gene	0.74	9.30E-02
270156	55216	AU019823	expressed sequence AU019823	1.24	5.51E-02
280621	348303	BC089491	cDNA sequence BC089491	1.5	5.45E-02
282619	374897	Sbsn	suprabasin	1.19	4.16E-02
319448	22862	Fndc3a	fibronectin type III domain containing 3A	0.8	9.55E-02
319719	375484	4732471D19Rik	RIKEN cDNA 4732471D19 gene	0.82	8.66E-02
320299	9657	Iqcb1	IQ calmodulin-binding motif containing 1	0.66	6.07E-02
320633	57684	Zbtb26	zinc finger and BTB domain containing 26	0.7	4.44E-02
320742		A230072C01Rik	RIKEN cDNA A230072C01 gene	0.74	6.07E-02
321000	55791	4933421E11Rik	RIKEN cDNA 4933421E11 gene	0.8	8.55E-02
328309		Gm9776	predicted gene 9776	1.25	4.00E-02
329002	7776	Zfp236	zinc finger protein 236	0.8	7.42E-02
330173		2610524H06Rik	RIKEN cDNA 2610524H06 gene	1.19	7.27E-02
330217	79690	Gal3st4	galactose-3-O-sulfotransferase 4	0.66	2.26E-02
380753	222255	Atxn7l1	ataxin 7-like 1	1.67	8.77E-02
382089	134701	Ripply2	rippy2 homolog (zebrafish)	1.36	4.18E-02
382252	256643	A830080D01Rik	RIKEN cDNA A830080D01 gene	0.74	8.03E-02
415115	140825	Neur12	neuralized-like 2 (Drosophila)	1.29	7.57E-02
432766				0.76	5.45E-02
546100		Gm5914	predicted gene 5914	1.75	4.00E-02
622320	283219	Kctd21	potassium channel tetramerisation domain containing 21	0.61	2.48E-03
624866		Gm6534	predicted gene 6534	0.57	2.59E-02
665193				1.49	6.75E-02
665934		EG665934	predicted gene, EG665934	1.43	8.88E-02
100039968	100130633	OTTMUSG00000009332	predicted gene, OTTMUSG00000009332	0.71	7.57E-02



Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
100040174		Gm2643	predicted gene 2643	1.41	4.45E-02
100040518				1.5	3.86E-02
100042889		1E+08	predicted gene, 100042889	1.71	3.11E-02
100043736		Gm10762	predicted gene 10762	1.44	4.44E-02

#### 4.2. 24-week DEGs

This is the complete list of 822 DEGs between diabetic (db/db) and control (db/+) mouse hippocampus at 24 weeks of age.

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
11308	10006	Abi1	abl-interactor 1	1.25	1.00E-02
11419	41	Accn2	amiloride-sensitive cation channel 2, neuronal	0.7	2.95E-02
11431	52	Acp1	acid phosphatase 1, soluble	1.14	8.96E-02
11472	88	Actn2	actinin alpha 2	0.73	8.78E-02
11489	8038	Adam12	a disintegrin and metallopeptidase domain 12 (meltrin alpha)	0.64	8.99E-02
11502	8754	Adam9	a disintegrin and metallopeptidase domain 9 (meltrin gamma)	1.14	6.56E-02
11520	123	Plin2	perilipin 2	0.72	6.92E-02
11632	9049	Aip	aryl-hydrocarbon receptor-interacting protein	0.91	6.35E-02
11637	204	Ak2	adenylate kinase 2	0.8	6.47E-02
11639	205	Ak3l1	adenylate kinase 3-like 1	0.82	4.33E-02
11666	215	Abcd1	ATP-binding cassette, sub-family D (ALD), member 1	0.77	6.73E-02
11669	217	Aldh2	aldehyde dehydrogenase 2, mitochondrial	0.84	5.34E-02
11765	164	Ap1g1	adaptor protein complex AP-1, gamma 1 subunit	0.85	5.86E-02
11781	9179	Ap4m1	adaptor-related protein complex AP-4, mu 1	0.76	1.47E-02
11821	353	Aprt	adenine phosphoribosyl transferase	0.87	3.48E-02
11845	382	Arf6	ADP-ribosylation factor 6	1.1	4.33E-02
11928	476	Atp1a1	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, alpha 1 polypeptide	1.09	7.92E-02
11951	516	Atp5g1	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1	0.78	3.66E-02
11991	3184	Hnrnpd	heterogeneous nuclear ribonucleoprotein D	1.18	3.09E-02
12036	587	Bcat2	branched chain aminotransferase 2, mitochondrial	0.67	8.46E-03
12040	594	Bckdhb	branched chain ketoacid dehydrogenase E1, beta polypeptide	0.86	4.09E-02

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
12175	663	Bnip2	BCL2/adenovirus E1B interacting protein 2	0.87	9.48E-02
12238	23412	Commd3	COMM domain containing 3	1.09	4.49E-02
12260	713	C1qb	complement component 1, q subcomponent, beta polypeptide	0.83	3.72E-02
12323	816	Camk2b	calcium/calmodulin-dependent protein kinase II, beta	1.11	3.48E-02
12334	824	Capn2	calpain 2	0.85	9.99E-02
12336	826	Capns1	calpain, small subunit 1	0.91	5.77E-02
12427	8900	Ccna1	cyclin A1	1.31	6.72E-02
12445	896	Ccnd3	cyclin D3	0.8	4.86E-02
12468	10574	Cct7	chaperonin containing Tcp1, subunit 7 (eta)	0.92	2.57E-02
12495	953	Entpd1	ectonucleoside triphosphate diphosphohydrolase 1	0.73	1.91E-02
12497	955	Entpd6	ectonucleoside triphosphate diphosphohydrolase 6	0.87	4.38E-02
12575	1026	Cdkn1a	cyclin-dependent kinase inhibitor 1A (P21)	1.74	8.51E-02
12593	9425	Cdyl	chromodomain protein, Y chromosome-like	1.37	3.34E-02
12615	1058	Cenpa	centromere protein A	1.48	4.48E-02
12626	1070	Cetn3	centrin 3	1.24	8.46E-03
12652	1113	Chga	chromogranin A	0.83	3.68E-02
12659	5016	Ovgp1	oviductal glycoprotein 1	1.61	3.08E-02
12684	27141	Cideb	cell death-inducing DNA fragmentation factor, alpha subunit-like effector B	0.64	4.33E-02
12696	1153	Cirbp	cold inducible RNA binding protein	1.67	3.10E-03
12785	7555	Cnbp	cellular nucleic acid binding protein	1.07	9.74E-02
12952	1407	Cry1	cryptochrome 1 (photolyase-like)	1.37	4.33E-02
12953	1408	Cry2	cryptochrome 2 (photolyase-like)	1.15	4.33E-02
12959	1413	Cryba4	crystallin, beta A4	0.67	5.62E-02
12988	1445	Csk	c-src tyrosine kinase	0.85	9.48E-02
13033	1509	Ctsd	cathepsin D	0.89	4.44E-02
13169	28988	Dbnl	drebrin-like	0.85	7.25E-02
13198	1649	Ddit3	DNA-damage inducible transcript 3	0.8	1.47E-02
13207	1655	Ddx5	DEAD (Asp-Glu-Ala-Asp) box polypeptide 5	1.12	1.55E-02
13360	1717	Dhcr7	7-dehydrocholesterol reductase	0.87	2.79E-02
13371	1734	Dio2	deiodinase, iodothyronine, type II	0.78	5.39E-02
13595	10682	Ebp	phenylalkylamine Ca <sup>2+</sup> antagonist (emopamil) binding protein	0.79	2.22E-02
13850	2053	Ephx2	epoxide hydrolase 2, cytoplasmic	0.7	3.36E-02
13885	2098	Esd	esterase D/formylglutathione hydrolase	0.73	4.97E-02
14066	2152	F3	coagulation factor III	1.23	3.48E-02

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
14129	2209	Fcgr1	Fc receptor, IgG, high affinity I	0.7	1.94E-02
14137	2222	Fdft1	farnesyl diphosphate farnesyl transferase 1	0.82	8.31E-02
14228	2288	Fkbp4	FK506 binding protein 4	0.86	3.57E-02
14371	8326	Fzd9	frizzled homolog 9 (Drosophila)	0.65	6.57E-02
14397	2557	Gabra4	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 4	1.25	8.47E-03
14461	2624	Gata2	GATA binding protein 2	1.35	9.17E-02
14466	2629	Gba	glucosidase, beta, acid	0.86	5.92E-02
14586	2675	Gfra2	glial cell line derived neurotrophic factor family receptor alpha 2	1.24	8.52E-02
14608	10888	Gpr83	G protein-coupled receptor 83	0.72	4.71E-02
14705	26580	Bscl2	Bernardinelli-Seip congenital lipodystrophy 2 homolog (human)	0.93	5.90E-02
14712	8443	Gnpat	glyceronephosphate O-acyltransferase	0.9	9.01E-02
14828	3309	Hspa5	heat shock protein 5	0.84	1.34E-02
15077	126961	Hist2h3c1	histone cluster 2, H3c1	0.69	4.78E-02
15081	3021	H3f3b	H3 histone, family 3B	1.18	3.68E-02
15200	1839	Hbegf	heparin-binding EGF-like growth factor	0.65	2.43E-02
15211	3073	Hexa	hexosaminidase A	0.86	2.57E-02
15441	50809	Hp1bp3	heterochromatin protein 1, binding protein 3	1.07	9.74E-02
15468	3275	Prmt2	protein arginine N-methyltransferase 2	0.85	6.60E-02
15499	3297	Hsf1	heat shock factor 1	0.85	8.88E-02
15528	3336	Hspe1	heat shock protein 1 (chaperonin 10)	0.88	3.36E-02
15932	3425	Idua	iduronidase, alpha-L-	0.8	7.07E-02
15982	3475	Ifrd1	interferon-related developmental regulator 1	1.14	1.94E-02
16151	8517	Ikbkg	inhibitor of kappaB kinase gamma	0.84	8.63E-02
16341	3646	Eif3e	eukaryotic translation initiation factor 3, subunit E	1.09	5.15E-02
16363	3660	Irf2	interferon regulatory factor 2	1.22	7.82E-02
16440	3710	Itpr3	inositol 1,4,5-triphosphate receptor 3	1.3	8.13E-02
16493	3741	Kcna5	potassium voltage-gated channel, shaker-related subfamily, member 5	1.55	4.44E-02
16515	3768	Kcnj12	potassium inwardly-rectifying channel, subfamily J, member 12	0.76	4.44E-02
16520	3761	Kcnj4	potassium inwardly-rectifying channel, subfamily J, member 4	1.55	6.14E-02
16542	3791	Kdr	kinase insert domain protein receptor	0.72	9.28E-02
16588	22944	Kin	antigenic determinant of rec-A protein	0.83	7.33E-02
16601	687	Klf9	Kruppel-like factor 9	1.23	8.78E-02
16653	3845	Kras	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	1.1	7.92E-02
16816	3931	Lcat	lecithin cholesterol acyltransferase	0.7	7.93E-02

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
16822	3937	Lcp2	lymphocyte cytosolic protein 2	0.77	6.31E-02
16832	3945	Ldhb	lactate dehydrogenase B	0.93	5.65E-02
16889	3988	Lipa	lysosomal acid lipase A	0.6	3.10E-03
16979	57633	Lrrn1	leucine rich repeat protein 1, neuronal	1.15	3.38E-02
16992	4049	Lta	lymphotoxin A	1.71	4.64E-02
17069	4061	Ly6e	lymphocyte antigen 6 complex, locus E	0.9	8.17E-02
17125	4086	Smad1	MAD homolog 1 (Drosophila)	1.22	1.51E-02
17150	4237	Mfap2	microfibrillar-associated protein 2	1.34	7.72E-02
17184	9782	Matr3	matrin 3	1.12	4.32E-02
17281	79443	Fyco1	FYVE and coiled-coil domain containing 1	1.26	6.02E-02
17299	4234	Mettl1	methyltransferase like 1	0.77	5.77E-02
17681	9242	Msc	musculin	0.77	9.79E-02
			methylenetetrahydrofolate dehydrogenase (NAD+ dependent),		
17768	10797	Mthfd2	methenyltetrahydrofolate cyclohydrolase	0.78	6.71E-02
17850	4594	Mut	methylmalonyl-Coenzyme A mutase	0.88	5.77E-02
17960	10	Nat1	N-acetyltransferase 1 (arylamine N-acetyltransferase)	0.73	2.15E-02
17978	10499	Ncoa2	nuclear receptor coactivator 2	1.16	6.81E-02
18045	4801	Nfyb	nuclear transcription factor-Y beta	1.14	4.45E-02
18049	4803	Ngf	nerve growth factor	0.79	5.86E-02
18105	4835	Nqo2	NAD(P)H dehydrogenase, quinone 2	0.7	1.52E-02
18108	9397	Nmt2	N-myristoyltransferase 2	0.78	6.69E-02
18120	740	Mrpl49	mitochondrial ribosomal protein L49	0.82	3.97E-02
18125	4842	Nos1	nitric oxide synthase 1, neuronal	0.77	9.48E-02
18160	4881	Npr1	natriuretic peptide receptor 1	1.63	7.67E-02
18260	4950	Ocln	occludin	1.49	8.26E-02
18293	4967	Ogdh	oxoglutarate dehydrogenase (lipoamide)	0.87	7.36E-02
18415	22824	Hspa4l	heat shock protein 4 like	0.8	5.86E-02
18430	5021	Oxtr	oxytocin receptor	0.66	3.09E-02
			procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase),		
18451	5033	P4ha1	alpha 1 polypeptide	0.74	2.22E-02
18481	5063	Pak3	p21 protein (Cdc42/Rac)-activated kinase 3	0.83	9.17E-02
18526	57575	Pcdh10	protocadherin 10	1.42	5.62E-02
18548	5122	Pcsk1	proprotein convertase subtilisin/kexin type 1	0.65	6.86E-02
18550	5045	Furin	furin (paired basic amino acid cleaving enzyme)	1.12	6.35E-02

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
18569	27250	Pdcd4	programmed cell death 4	1.1	5.70E-02
18574	5153	Pde1b	phosphodiesterase 1B, Ca <sup>2+</sup> -calmodulin dependent	1.19	3.84E-02
18715	11040	Pim2	proviral integration site 2	0.85	9.62E-02
18764	5311	Pkd2	polycystic kidney disease 2	1.17	5.34E-02
18786	9373	Plaa	phospholipase A2, activating protein	1.2	4.89E-02
19046	5500	Ppp1cb	protein phosphatase 1, catalytic subunit, beta isoform	1.14	1.47E-02
19089	5589	Prkcsh	protein kinase C substrate 80K-H	0.86	3.08E-02
19130	5629	Prox1	prospero-related homeobox 1	1.53	5.88E-02
19201	9050	Pstpip2	proline-serine-threonine phosphatase-interacting protein 2	1.64	1.47E-02
19210	9791	Ptdss1	phosphatidylserine synthase 1	0.9	5.77E-02
19309	5837	Pygm	muscle glycogen phosphorylase	0.73	3.84E-02
19357	5885	Rad21	RAD21 homolog (S. pombe)	1.16	6.56E-02
19645	5925	Rb1	retinoblastoma 1	1.27	1.55E-02
19655	27316	Rbmx	RNA binding motif protein, X chromosome	1.18	3.48E-02
19727	8625	Rfxank	regulatory factor X-associated ankyrin-containing protein	0.81	4.11E-02
19735	5997	Rgs2	regulator of G-protein signaling 2	0.86	9.48E-02
19752	6035	Rnase1	ribonuclease, RNase A family, 1 (pancreatic)	0.69	6.35E-02
19769	6016	Rit1	Ras-like without CAAX 1	0.85	7.92E-02
19777	8725	C80913	expressed sequence C80913	1.22	5.62E-02
19819	246243	Rnaseh1	ribonuclease H1	0.81	1.55E-02
20222	8175	Sf3a2	splicing factor 3a, subunit 2	1.22	9.06E-02
20295	6361	Ccl17	chemokine (C-C motif) ligand 17	1.56	9.33E-03
20300	6370	Ccl25	chemokine (C-C motif) ligand 25	1.21	5.88E-02
20316	6388	Sdf2	stromal cell derived factor 2	0.9	3.72E-02
20320	27020	Nptn	neuroplastin	1.06	9.46E-02
20334	10484	Sec23a	SEC23A (S. cerevisiae)	1.1	9.75E-02
20393	6446	Sgk1	serum/glucocorticoid regulated kinase 1	1.25	2.03E-02
20437	6477	Siah1a	seven in absentia 1A	1.1	7.82E-02
20539	8140	Slc7a5	solute carrier family 7 (cationic amino acid transporter, y <sup>+</sup> system), member 5	1.14	8.26E-02
20614	6616	Snap25	synaptosomal-associated protein 25	1.07	3.40E-02
20648	6640	Snta1	syntrophin, acidic 1	0.82	9.90E-02
20751	6697	Spr	sepiapterin reductase	0.86	7.92E-02
20768	22928	Seps2	selenophosphate synthetase 2	1.09	4.92E-02
20778	949	Scarb1	scavenger receptor class B, member 1	1.23	9.09E-02

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
20867	10963	Stip1	stress-induced phosphoprotein 1	0.8	2.69E-02
20872	8576	Stk16	serine/threonine kinase 16	0.85	4.33E-02
21372	6907	Tb11x	transducin (beta)-like 1 X-linked	0.8	4.60E-02
21375	10716	Tbr1	T-box brain gene 1	1.32	9.48E-02
21743	11185	Inmt	indolethylamine N-methyltransferase	1.73	3.34E-02
21809	7043	Tgfb3	transforming growth factor, beta 3	0.66	4.33E-02
21835	7069	Thrsp	thyroid hormone responsive SPOT14 homolog (Rattus)	0.85	4.45E-02
21929	7128	Tnfaip3	tumor necrosis factor, alpha-induced protein 3	0.66	3.66E-02
22027	7184	Hsp90b1	heat shock protein 90, beta (Grp94), member 1	0.84	6.14E-02
22130	7270	Ttf1	transcription termination factor, RNA polymerase I	0.76	2.27E-02
22152	10381	Tubb3	tubulin, beta 3	0.88	7.67E-02
22289	7403	Kdm6a	4lysine (K)-specific demethylase 6A	1.18	5.86E-02
22362	7441	Vpreb1	pre-B lymphocyte gene 1	0.51	2.72E-02
22367	7443	Vrk1	vaccinia related kinase 1	1.35	8.46E-03
22377	23559	Wbp1	WW domain binding protein 1	0.84	9.75E-02
22421	7476	Wnt7a	wingless-related MMTV integration site 7A	0.72	7.92E-02
22433	7494	Xbp1	X-box binding protein 1	0.8	5.50E-02
22619	54414	Siae	sialic acid acetyltransferase	0.81	4.52E-02
22627	7531	Ywhae	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	1.05	9.61E-02
22643		Zfp101	zinc finger protein 101	0.69	3.34E-02
23828	11149	Bves	blood vessel epicardial substance	0.68	5.15E-02
23872	2114	Ets2	E26 avian leukemia oncogene 2, 3' domain	1.07	9.48E-02
23873	55179	Faim	Fas apoptotic inhibitory molecule	1.16	9.92E-02
23924	11104	Katna1	katanin p60 (ATPase-containing) subunit A1	0.83	9.48E-02
24004	10742	Rai2	retinoic acid induced 2	1.28	6.14E-02
24018	8732	Rngtt	RNA guanylyltransferase and 5'-phosphatase	0.82	4.44E-02
24030	6183	Mrps12	mitochondrial ribosomal protein S12	0.82	3.34E-02
26397	5606	Map2k3	mitogen-activated protein kinase kinase 3	0.82	9.37E-02
26404	7786	Map3k12	mitogen-activated protein kinase kinase kinase 12	1.22	8.46E-03
26562	23154	Ncdn	neurochondrin	1.07	6.71E-02
26879	8706	B3galnt1	UDP-GalNAc:betaGlcNAc beta 1,3-galactosaminyltransferase, polypeptide 1	1.24	2.44E-02
26891	51138	Cops4	COP9 (constitutive photomorphogenic) homolog, subunit 4 (Arabidopsis thaliana)	0.85	5.62E-02

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
27050	6188	Rps3	ribosomal protein S3	1.2	2.69E-02
27059	152503	Sh3d19	SH3 domain protein D19	0.73	1.51E-02
27274	117608	Zfp354b	zinc finger protein 354B	0.54	1.51E-02
27388	81490	Ptdss2	phosphatidylserine synthase 2	0.85	9.79E-02
27402	8050	Pdhx	pyruvate dehydrogenase complex, component X	0.83	8.69E-02
27410	21	Abca3	ATP-binding cassette, sub-family A (ABC1), member 3	0.87	3.45E-02
27643	8266	Ubl4	ubiquitin-like 4	0.74	2.09E-02
27883	128989	D16H22S680E	DNA segment, Chr 16, human D22S680E, expressed	0.82	1.47E-02
28040	57102	D6Wsu163e	DNA segment, Chr 6, Wayne State University 163, expressed	0.87	6.56E-02
28075	27351	Pppde2	PPPDE peptidase domain containing 2	0.85	1.92E-02
28185	9868	Tomm70a	translocase of outer mitochondrial membrane 70 homolog A (yeast)	1.13	9.55E-02
28240	7226	Trpm2	transient receptor potential cation channel, subfamily M, member 2	0.71	3.41E-02
30785	83992	Cttnbp2	cortactin binding protein 2	1.39	9.33E-03
30878	8862	Apln	apelin	0.75	3.21E-02
30926	10539	Glrx3	glutaredoxin 3	0.9	9.23E-02
30951	57332	Cbx8	chromobox homolog 8 (Drosophila Pc class)	0.84	6.86E-02
50758	64839	Fbxl17	F-box and leucine-rich repeat protein 17	1.08	8.44E-02
50768	10395	Dlc1	deleted in liver cancer 1	0.83	7.67E-02
50850	6683	Spast	spastin	0.83	9.86E-02
50907	10113	Preb	prolactin regulatory element binding	0.85	5.86E-02
51788	3015	H2afz	H2A histone family, member Z	1.31	3.30E-02
52004	10263	Cdk2ap2	CDK2-associated protein 2	0.75	2.49E-02
52118	5817	Pvr	poliovirus receptor	0.79	7.72E-02
52120	138050	Hgsnat	heparan-alpha-glucosaminide N-acetyltransferase 1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon)	1.16	7.21E-02
52123	55326	Agpat5	acyltransferase, epsilon)	0.89	6.93E-02
52202	23029	Rbm34	RNA binding motif protein 34	1.2	6.42E-02
52466	113235	Slc46a1	solute carrier family 46, member 1	0.87	6.71E-02
52668	3429	Ifi2711	interferon, alpha-inducible protein 27 like 1	0.83	9.42E-02
53412	5507	Ppp1r3c	protein phosphatase 1, regulatory (inhibitor) subunit 3C	0.76	7.09E-02
53893	11164	Nudt5	nudix (nucleoside diphosphate linked moiety X)-type motif 5 solute carrier family 7 (cationic amino acid transporter, y+ system), member 10	0.74	3.72E-02
53896	56301	Slc7a10	10	0.88	7.44E-02
53945	30061	Slc40a1	solute carrier family 40 (iron-regulated transporter), member 1	0.78	8.65E-02

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
54122	55293	Uevld	UEV and lactate/malate dehydrogenase domains	1.45	8.82E-03
54131	3661	Irf3	interferon regulatory factor 3	0.85	9.74E-02
54169	23522	Myst4	MYST histone acetyltransferase monocytic leukemia 4 elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like	1.3	1.40E-02
54326	54898	Elovl2	2	1.16	7.44E-02
54353	8935	Skap2	src family associated phosphoprotein 2	0.8	7.15E-02
54357	54566	Epb4.114b	erythrocyte protein band 4.1-like 4b	1.84	6.33E-02
54678		Zfp108	zinc finger protein 108	0.83	7.15E-02
55946	26985	Ap3m1	adaptor-related protein complex 3, mu 1 subunit	0.88	8.14E-02
55960	9166	Ebag9	estrogen receptor-binding fragment-associated gene 9	1.2	3.21E-02
55980	3612	Impa1	inositol (myo)-1(or 4)-monophosphatase 1	1.11	6.71E-02
56016	23593	Hebp2	heme binding protein 2	0.67	7.10E-02
56032	10641	Tusc4	tumor suppressor candidate 4	0.88	6.05E-02
56043	83592	Akr1e1	aldo-keto reductase family 1, member E1	0.86	2.72E-02
56150	4085	Mad211	MAD2 mitotic arrest deficient-like 1 (yeast)	1.22	6.27E-02
56196	51567	Ttrap	TRAF and TNF receptor associated protein	1.17	6.33E-02
56200	9188	Ddx21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21	1.25	9.33E-03
56289	11186	Rassf1	Ras association (RalGDS/AF-6) domain family member 1	0.84	9.74E-02
56314	7551	Zfp113	zinc finger protein 113	0.64	5.08E-03
56335	56339	Mettl3	methyltransferase like 3	0.86	6.02E-02
56358	51226	Copz2	coatamer protein complex, subunit zeta 2	0.65	9.79E-02
56368	11068	Cyb561d2	cytochrome b-561 domain containing 2	0.82	2.57E-02
56369	51074	Apip	APAF1 interacting protein	0.7	8.46E-03
56399	10270	Akap8	A kinase (PRKA) anchor protein 8	1.21	4.71E-02
56440	6642	Snx1	sorting nexin 1	0.87	7.39E-02
56447	22818	Copz1	coatamer protein complex, subunit zeta 1	0.87	9.81E-02
56488	29107	Nxt1	NTF2-related export protein 1	0.83	5.77E-02
56529	23478	Sec11a	SEC11 homolog A ( <i>S. cerevisiae</i> )	0.91	5.62E-02
56530	10330	Cnpy2	canopy 2 homolog (zebrafish)	0.88	6.71E-02
56720	6999	Tdo2	tryptophan 2,3-dioxygenase	1.65	7.92E-02
56772	10962	Mllt11	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i> ); translocated to, 11	1.1	8.94E-02
56874	140545	Rnf32	ring finger protein 32	0.76	9.97E-02
57262		Retnla	resistin like alpha	4.73	4.97E-02



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57321	54386	Terf2ip	telomeric repeat binding factor 2, interacting protein	1.27	6.00E-02
57344	57412	As3mt	arsenic (+3 oxidation state) methyltransferase	0.77	7.25E-02
57753	64318	Noc3l	nucleolar complex associated 3 homolog (S. cerevisiae)	0.73	5.35E-02
57816	54997	Tesc	tescalcin	0.81	2.49E-02
58521	23741	Eid1	EP300 interacting inhibitor of differentiation 1	1.08	8.17E-02
59021	5862	Rab2a	RAB2A, member RAS oncogene family	1.07	9.28E-02
59030	8195	Mkks	McKusick-Kaufman syndrome protein	0.76	1.00E-02
59058	27319	Bhlhe22	basic helix-loop-helix family, member e22	1.1	8.78E-02
60315	60314	Myg1	melanocyte proliferating gene 1	0.86	6.43E-02
64136	23753	Sdf2l1	stromal cell-derived factor 2-like 1	0.52	4.49E-02
64658	64432	Mrps25	mitochondrial ribosomal protein S25	0.83	5.34E-02
64659	63931	Mrps14	mitochondrial ribosomal protein S14	0.85	7.15E-02
64707	79723	Suv39h2	suppressor of variegation 3-9 homolog 2 (Drosophila)	0.78	9.74E-02
64934	23481	Pes1	pescadillo homolog 1, containing BRCT domain (zebrafish)	0.57	8.46E-03
65102	60491	Nif3l1	Ngg1 interacting factor 3-like 1 (S. pombe)	0.86	6.56E-02
66043	513	Atp5d	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, delta subunit	0.94	5.59E-02
66050		0610009B22Rik	RIKEN cDNA 0610009B22 gene	0.91	9.23E-02
66052	6391	Sdhc	succinate dehydrogenase complex, subunit C, integral membrane protein	0.92	9.81E-02
66061	255758	Tctex1d2	Tctex1 domain containing 2	1.24	1.55E-02
66072	54949	0610038F07Rik	RIKEN cDNA 0610038F07 gene	0.86	5.77E-02
66077	54998	Aurkaip1	aurora kinase A interacting protein 1	0.88	5.38E-02
66120	51303	Fkbp11	FK506 binding protein 11	0.79	9.01E-02
66124	126119	Josd2	Josephin domain containing 2	0.81	6.92E-02
66131	54962	Tipin	timeless interacting protein	1.34	1.34E-02
66172	400569	Med11	mediator of RNA polymerase II transcription, subunit 11 homolog (S. cerevisiae)	0.73	1.91E-02
66194	65263	Pycrl	pyrroline-5-carboxylate reductase-like	0.77	3.11E-02
66202	57456	1110059G10Rik	RIKEN cDNA 1110059G10 gene	1.15	6.31E-02
66234	6307	Sc4mol	sterol-C4-methyl oxidase-like	0.72	2.66E-02
66248	29880	Alg5	asparagine-linked glycosylation 5 homolog (yeast, dolichyl-phosphate beta-glucosyltransferase)	1.25	4.52E-02
66259	55450	Camk2n1	calcium/calmodulin-dependent protein kinase II inhibitor 1	1.14	7.67E-02
66268	84992	Pigyl	phosphatidylinositol glycan anchor biosynthesis, class Y-like	0.86	4.78E-02
66273	28971	1810020D17Rik	RIKEN cDNA 1810020D17 gene	0.84	7.92E-02

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66300	255783	2610014I16Rik	RIKEN cDNA 2610014I16 gene	0.89	8.88E-02
66302	51115	Fam82b	family with sequence similarity 82, member B	0.8	4.64E-02
66308	136647	2810021B07Rik	RIKEN cDNA 2810021B07 gene	1.25	6.35E-02
66336	401541	Cenpp	centromere protein P	1.4	4.64E-02
66397	51128	Sar1b	SAR1 gene homolog B ( <i>S. cerevisiae</i> )	1.09	4.01E-02
66400	84266	Alkbh7	alkB, alkylation repair homolog 7 ( <i>E. coli</i> )	0.84	3.99E-02
66423	55352	2410022L05Rik	RIKEN cDNA 2410022L05 gene	0.83	5.86E-02
66439	119032	2010012O05Rik	RIKEN cDNA 2010012O05 gene	1.2	9.05E-02
66455	245812	Cnpy4	canopy 4 homolog (zebrafish)	0.79	9.17E-02
66464	6883	Taf12	TAF12 RNA polymerase II, TATA box binding protein (TBP)-associated factor	0.73	1.95E-02
66493	51258	Mrpl51	mitochondrial ribosomal protein L51	0.59	1.96E-02
66500	148867	Slc30a7	solute carrier family 30 (zinc transporter), member 7	0.83	9.10E-02
66514	80150	Asrg1l	asparaginase like 1	0.86	8.78E-02
66523	128061	2810004N23Rik	RIKEN cDNA 2810004N23 gene	0.69	2.43E-02
66538	91582	Rps19bp1	ribosomal protein S19 binding protein 1	0.88	9.01E-02
66583	51013	Exosc1	exosome component 1	1.16	4.33E-02
66596	2971	Gtf3a	general transcription factor III A	0.89	8.29E-02
66599	201299	Rdm1	RAD52 motif 1	0.76	7.22E-02
66606	255252	Lrrc57	leucine rich repeat containing 57	1.19	6.92E-02
66615	23192	Atg4b	autophagy-related 4B (yeast)	0.85	6.35E-02
66645	55269	Pspc1	paraspeckle protein 1	1.2	4.89E-02
66646	6120	Rpe	ribulose-5-phosphate-3-epimerase	0.82	8.26E-02
66682	126003	Trappc5	trafficking protein particle complex 5	0.9	7.62E-02
66789	199857	Alg14	asparagine-linked glycosylation 14 homolog (yeast)	0.82	5.59E-02
66795	83734	Atg10	autophagy-related 10 (yeast)	1.19	4.32E-02
66801	79706	Prkrip1	Prkr interacting protein 1 (IL11 inducible)	0.79	5.88E-02
66816	83591	Thap2	THAP domain containing, apoptosis associated protein 2	1.39	6.12E-02
66821	617	Bcs1l	BCS1-like (yeast)	0.83	4.49E-02
66844	29095	Ormdl2	ORM1-like 2 ( <i>S. cerevisiae</i> )	0.76	1.59E-02
66870	26135	Serbp1	serpine1 mRNA binding protein 1	1.08	5.34E-02
66877	51340	Crnk1l	Crn, crooked neck-like 1 ( <i>Drosophila</i> )	0.83	5.35E-02
66878	8780	Riok3	RIO kinase 3 (yeast)	1.14	4.77E-02
66885	36	Acadsb	acyl-Coenzyme A dehydrogenase, short/branched chain	0.88	3.23E-02

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66902	4507	Mtap	methylthioadenosine phosphorylase cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein	0.79	4.21E-02
66917	26973	Chordc1	1	0.76	1.59E-02
66922	22800	Rras2	related RAS viral (r-ras) oncogene homolog 2	1.22	9.79E-02
66926	51605	Trmt6	tRNA methyltransferase 6 homolog ( <i>S. cerevisiae</i> )	1.19	7.45E-02
66950	55248	Tmem206	transmembrane protein 206	0.81	9.74E-02
66975	80006	2410002O22Rik	RIKEN cDNA 2410002O22 gene	0.87	9.58E-02
66980	64429	Zdhhc6	zinc finger, DHHC domain containing 6	0.77	7.82E-02
66983	91603	Zfp830	zinc finger protein 830	0.84	9.79E-02
66989	222658	Kctd20	potassium channel tetramerisation domain containing 20	0.85	5.86E-02
66998	5711	Psmc5	proteasome (prosome, macropain) 26S subunit, non-ATPase, 5	0.89	8.44E-02
67006	493856	Cisd2	CDGSH iron sulfur domain 2	1.14	6.92E-02
67010	10179	Rbm7	RNA binding motif protein 7	1.15	5.72E-02
67039	58517	Rbm25	RNA binding motif protein 25	1.24	2.27E-02
67043	94056	Syap1	synapse associated protein 1	1.15	3.08E-02
67057	10138	Yaf2	YY1 associated factor 2	1.09	5.62E-02
67062	401612	Mcart6	mitochondrial carrier triple repeat 6	0.8	6.39E-02
67064	57132	Chmp1b	chromatin modifying protein 1B	0.89	7.25E-02
67089	5706	Psmc6	proteasome (prosome, macropain) 26S subunit, ATPase, 6	0.92	7.82E-02
67105	29090	1700034H14Rik	RIKEN cDNA 1700034H14 gene	0.84	5.52E-02
67126	514	Atp5e	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, epsilon subunit	0.95	7.15E-02
67128	7326	Ube2g1	ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, <i>C. elegans</i> )	1.17	7.53E-02
67154	92140	Mtdh	metadherin	1.17	3.40E-02
67158	84826	Sft2d3	SFT2 domain containing 3	1.41	3.96E-02
67204	8894	Eif2s2	eukaryotic translation initiation factor 2, subunit 2 (beta)	1.17	5.34E-02
67236	51550	2810452K22Rik	RIKEN cDNA 2810452K22 gene	1.1	5.86E-02
67249	55296	Tbc1d19	TBC1 domain family, member 19	0.88	4.78E-02
67279	51003	Med31	mediator of RNA polymerase II transcription, subunit 31 homolog (yeast)	0.86	2.26E-02
67291	339230	Ccdc137	coiled-coil domain containing 137	0.86	8.44E-02
67305	2882	Gpx7	glutathione peroxidase 7	0.85	7.10E-02
67371	112495	Gtf3c6	general transcription factor IIIC, polypeptide 6, alpha	0.8	3.08E-02
67437	6747	Ssr3	signal sequence receptor, gamma	1.09	3.41E-02
67475	56605	Ero1lb	ERO1-like beta ( <i>S. cerevisiae</i> )	0.83	3.21E-02
67477	116236	Abhd15	abhydrolase domain containing 15	1.36	4.89E-02

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67493	79066	Mett10d	methyltransferase 10 domain containing	0.69	1.66E-02
67501	152137	Ccdc50	coiled-coil domain containing 50	0.83	8.56E-02
67516	386618	Kctd4	potassium channel tetramerisation domain containing 4	1.23	6.64E-02
67526	9140	Atg12	autophagy-related 12 (yeast)	0.84	3.97E-02
67538	140831	Zswim3	zinc finger, SWIM domain containing 3	0.65	2.47E-02
67544	84498	Fam120b	family with sequence similarity 120, member B	0.84	3.09E-02
67549	51463	Gpr89	G protein-coupled receptor 89	0.81	4.49E-02
67675	51596	Cuta	cutA divalent cation tolerance homolog (E. coli)	0.88	2.28E-02
67695	100128731	2310016E02Rik	RIKEN cDNA 2310016E02 gene	0.85	4.94E-02
67707	79590	Mrpl24	mitochondrial ribosomal protein L24	0.89	5.77E-02
67729	54682	Mansc1	MANSC domain containing 1	1.38	5.09E-02
67760	54407	Slc38a2	solute carrier family 38, member 2	1.18	6.33E-02
67767	84522	Jagn1	jagunal homolog 1 (Drosophila)	0.89	3.53E-02
67832	55299	Bxdc2	brix domain containing 2	0.79	5.70E-02
67838	51726	Dnajb11	DnaJ (Hsp40) homolog, subfamily B, member 11	0.75	2.03E-02
67865	6001	Rgs10	regulator of G-protein signalling 10	0.87	7.21E-02
67871	92399	Mrrf	mitochondrial ribosome recycling factor	0.69	8.46E-03
67872	54780	Nsmce4a	non-SMC element 4 homolog A (S. cerevisiae)	1.09	9.17E-02
67883	80146	Uxs1	UDP-glucuronate decarboxylase 1	1.14	7.44E-02
67895	5464	Ppa1	pyrophosphatase (inorganic) 1	0.91	3.68E-02
67902	25870	Sumf2	sulfatase modifying factor 2	0.81	2.34E-02
67966	54819	Zcchc10	zinc finger, CCHC domain containing 10	1.16	9.06E-02
67980	132789	Gnpda2	glucosamine-6-phosphate deaminase 2	0.85	8.68E-02
67996	6431	Sfrs6	splicing factor, arginine/serine-rich 6	1.27	1.34E-02
68024	8347	Hist1h2bc	histone cluster 1, H2bc	0.87	2.69E-02
68033	90639	Cox19	COX19 cytochrome c oxidase assembly homolog (S. cerevisiae)	0.8	3.23E-02
68066	51629	Slc25a39	solute carrier family 25, member 39	0.89	7.71E-02
68082	142679	Dusp19	dual specificity phosphatase 19	0.75	3.09E-02
68092	22916	Ncbp2	nuclear cap binding protein subunit 2	0.88	3.34E-02
68115	79568	9430016H08Rik	RIKEN cDNA 9430016H08 gene	1.14	9.38E-02
68128		C030044B11Rik	RIKEN cDNA C030044B11 gene	1.15	5.77E-02
68152	257415	5830415L20Rik	RIKEN cDNA 5830415L20 gene	1.17	4.49E-02
68177	84650	Ebpl	emopamil binding protein-like	0.83	3.09E-02
68184	8562	Denr	density-regulated protein	1.11	9.80E-02

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68187	57579	Fam135a	family with sequence similarity 135, member A	1.26	4.68E-02
68240	6119	Rpa3	replication protein A3	0.83	6.14E-02
68241	84331	9530058B02Rik	RIKEN cDNA 9530058B02 gene	0.84	9.28E-02
68310	79830	Zmym1	zinc finger, MYM domain containing 1	0.8	9.48E-02
68332	644096	Sdhaf1	succinate dehydrogenase complex assembly factor 1	1.18	4.15E-02
68347	84326	0610011F06Rik	RIKEN cDNA 0610011F06 gene	0.85	3.96E-02
68355		2010204K13Rik	RIKEN cDNA 2010204K13 gene	0.85	5.62E-02
68396	9027	Cml4	camello-like 4	0.77	6.09E-02
68523	51647	Fam96b	family with sequence similarity 96, member B	0.84	7.92E-02
68533	10200	Mphosph6	M phase phosphoprotein 6	1.24	6.35E-02
68603	10654	Pmvk	phosphomevalonate kinase	0.86	7.12E-02
68606	9647	Ppm1f	protein phosphatase 1F (PP2C domain containing)	0.85	8.51E-02
68644	25864	Abhd14a	abhydrolase domain containing 14A	0.88	3.95E-02
68659	51313	1110032E23Rik	RIKEN cDNA 1110032E23 gene	1.3	6.05E-02
68667	54795	Trpm4	transient receptor potential cation channel, subfamily M, member 4	1.27	5.85E-02
68695	374659	Hddc3	HD domain containing 3	0.84	5.34E-02
68738	84532	Acss1	acyl-CoA synthetase short-chain family member 1	0.83	2.66E-02
68758	83451	Abhd11	abhydrolase domain containing 11	0.86	4.26E-02
68763	50854	1110038B12Rik	RIKEN cDNA 1110038B12 gene	1.21	1.53E-02
68832	60526	1110057K04Rik	RIKEN cDNA 1110057K04 gene	0.85	4.73E-02
68943	65018	Pink1	PTEN induced putative kinase 1	1.07	6.14E-02
69010	25847	Anapc13	anaphase promoting complex subunit 13	0.9	8.52E-02
69049		Cml5	camello-like 5	0.68	3.09E-02
69101	150223	Ydjc	YdjC homolog (bacterial)	0.79	7.07E-02
69113	221120	Alkbh3	alkB, alkylation repair homolog 3 (E. coli)	1.21	7.28E-02
69142		Cd209f	CD209f antigen	0.6	6.69E-02
69156	118881	Comtd1	catechol-O-methyltransferase domain containing 1	0.81	6.39E-02
69215	112483	Sat2	spermidine/spermine N1-acetyl transferase 2	1.27	4.82E-02
69256		Zfp397	zinc finger protein 397	0.86	7.92E-02
69434	283596	Snhg10	small nucleolar RNA host gene (non-protein coding) 10	1.24	8.29E-02
69487	79133	2310003L22Rik	RIKEN cDNA 2310003L22 gene	0.86	7.71E-02
69528	123775	1700030J22Rik	RIKEN cDNA 1700030J22 gene	0.68	1.51E-02
69581	58480	Rhou	ras homolog gene family, member U	1.22	7.92E-02
69641		Wdr20a	WD repeat domain 20A	1.27	1.94E-02

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69719	790	Cad	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	0.76	2.66E-02
69790	90390	Med30	mediator complex subunit 30	1.21	6.71E-02
69802	1353	Cox11	COX11 homolog, cytochrome c oxidase assembly protein (yeast)	1.15	5.34E-02
70025	11332	Acot7	acyl-CoA thioesterase 7	0.92	4.85E-02
70103	10467	Znhit1	zinc finger, HIT domain containing 1	0.89	4.71E-02
70152	25840	Mettl7a1	methyltransferase like 7A1	0.79	5.77E-02
70335	92840	Reep6	receptor accessory protein 6	0.72	1.00E-02
70356	6767	St13	suppression of tumorigenicity 13	0.81	3.48E-02
70377	91319	Der13	Der1-like domain family, member 3	0.5	5.02E-02
70396	54529	Asnsd1	asparagine synthetase domain containing 1	0.87	4.33E-02
70470	58490	Rprd1b	regulation of nuclear pre-mRNA domain containing 1B	0.82	8.56E-02
70481	9240	Pnma1	paraneoplastic antigen MA1	0.64	2.39E-02
70533	91408	Btf3l4	basic transcription factor 3-like 4	1.32	9.42E-03
70575	81577	Gfod2	glucose-fructose oxidoreductase domain containing 2	0.8	6.71E-02
70727	221002	Rasgef1a	RasGEF domain family, member 1A	1.18	5.62E-02
70834	9043	Spag9	sperm associated antigen 9	1.09	6.35E-02
70954		4922502B01Rik	RIKEN cDNA 4922502B01 gene	0.68	4.76E-02
71020	221409	Spats1	spermatogenesis associated, serine-rich 1	0.68	9.23E-02
71116	53407	Stx18	syntaxin 18	0.85	9.55E-02
71206	83473	Katnal2	katanin p60 subunit A-like 2	0.77	9.48E-02
71238	57001	Acn9	ACN9 homolog (S. cerevisiae)	0.83	8.12E-02
71275	122945	4933437F05Rik	RIKEN cDNA 4933437F05 gene	0.58	3.72E-02
71435	57584	Arhgap21	Rho GTPase activating protein 21	1.14	5.86E-02
71492	55212	Bbs7	Bardet-Biedl syndrome 7 (human)	0.83	8.63E-02
71599	123228	Senp8	SUMO/sentrin specific peptidase 8	0.63	1.00E-02
71643	91431	4930422G04Rik	RIKEN cDNA 4930422G04 gene	1.41	7.25E-02
71675	84542	0610010F05Rik	RIKEN cDNA 0610010F05 gene	1.15	5.86E-02
71752	2976	Gtf3c2	general transcription factor IIIC, polypeptide 2, beta	1.18	5.62E-02
71760	64850	Agxt2l1	alanine-glyoxylate aminotransferase 2-like 1	2.57	8.47E-03
71778	51088	Klhl5	kelch-like 5 (Drosophila)	1.96	3.56E-02
71780	51477	Isyna1	myo-inositol 1-phosphate synthase A1	0.69	3.08E-02
71838	51533	Phf7	PHD finger protein 7	1.29	5.91E-02
71853	10130	Pdia6	protein disulfide isomerase associated 6	0.66	6.08E-03

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71904	164091	Paqr7	progesterin and adipoQ receptor family member VII	0.84	7.28E-02
71970	114821	Scand3	SCAN domain containing 3	0.7	7.65E-02
72003	132204	Synpr	synaptoporin	1.16	5.88E-02
72050	79070	Kdelc1	KDEL (Lys-Asp-Glu-Leu) containing 1	0.83	6.56E-02
72102	8446	Dusp11	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)	1.29	4.76E-02
72117	80218	Nat13	N-acetyltransferase 13	1.1	6.71E-02
72293	85409	Nkd2	naked cuticle 2 homolog (Drosophila)	0.59	2.74E-02
72371	285600	2210408I21Rik	RIKEN cDNA 2210408I21 gene	0.71	3.34E-02
72514	143282	Fgfbp3	fibroblast growth factor binding protein 3	1.38	5.21E-02
72544	118460	Exosc6	exosome component 6	0.71	8.63E-02
72555	729993	2700045P11Rik	RIKEN cDNA 2700045P11 gene	1.27	7.00E-02
72587	255967	Pan3	PAN3 polyA specific ribonuclease subunit homolog (S. cerevisiae)	1.2	1.51E-02
72655		2810026P18Rik	RIKEN cDNA 2810026P18 gene	1.34	1.51E-02
72656	55656	Ints8	integrator complex subunit 8	0.84	7.82E-02
72658		2700097O09Rik	RIKEN cDNA 2700097O09 gene	0.7	1.52E-02
72720	57209	Zfp248	zinc finger protein 248	0.75	4.63E-02
72736	81542	Tmx1	thioredoxin-related transmembrane protein 1	1.11	7.92E-02
72745	153396	Tmem161b	transmembrane protein 161B	1.36	2.77E-02
72748	81932	Hdhd3	haloacid dehalogenase-like hydrolase domain containing 3	0.74	2.69E-02
72750	150864	Fam117b	family with sequence similarity 117, member B	1.12	3.48E-02
72754	55160	Arhgef10l	Rho guanine nucleotide exchange factor (GEF) 10-like	1.32	8.45E-02
72807		Zfp429	zinc finger protein 429	0.68	6.59E-02
72826	143684	Fam76b	family with sequence similarity 76, member B	1.21	4.52E-02
72832	55118	Crtac1	cartilage acidic protein 1	0.77	9.27E-02
72902	50859	Spock3	sparc/osteonectin, cwcv and kazal-like domains proteoglycan 3	1.22	4.33E-02
73010	2845	Gpr22	G protein-coupled receptor 22	1.21	5.77E-02
73132	8034	Slc25a16	solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 16	1.21	4.80E-02
73420	126731	1700054N08Rik	RIKEN cDNA 1700054N08 gene	1.22	3.72E-02
73516		1700086O06Rik	RIKEN cDNA 1700086O06 gene	1.39	4.33E-02
73533		1700080G18Rik	RIKEN cDNA 1700080G18 gene	1.85	4.49E-02
73681	60487	Trmt11	tRNA methyltransferase 11 homolog (S. cerevisiae)	1.21	7.15E-02
73694	55471	2410091C18Rik	RIKEN cDNA 2410091C18 gene	0.84	1.51E-02
73822	126321	F630110N24Rik	RIKEN cDNA F630110N24 gene	0.85	4.71E-02

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73847	83541	Fam110a	family with sequence similarity 110, member A	0.72	4.32E-02
74053	23426	Grip1	glutamate receptor interacting protein 1	0.82	9.74E-02
74117	10096	Actr3	ARP3 actin-related protein 3 homolog (yeast)	1.13	2.44E-02
74159	91452	Acbd5	acyl-Coenzyme A binding domain containing 5	1.21	8.97E-02
74203	56478	Eif4enif1	eukaryotic translation initiation factor 4E nuclear import factor 1	1.17	7.33E-02
74237	10844	Tubgcp2	tubulin, gamma complex associated protein 2	1.21	7.12E-02
74349	84067	Fam160a2	family with sequence similarity 160, member A2	1.21	5.41E-02
74530		9030612E09Rik	RIKEN cDNA 9030612E09 gene	1.31	9.38E-02
74551	5106	Pck2	phosphoenolpyruvate carboxykinase 2 (mitochondrial)	0.76	1.92E-02
74646	80176	Spsb1	spla/ryanodine receptor domain and SOCS box containing 1	1.44	1.95E-02
74840	7873	Manf	mesencephalic astrocyte-derived neurotrophic factor	0.71	8.46E-03
75180	100129924	4930538K18Rik	RIKEN cDNA 4930538K18 gene	1.7	3.55E-02
75202		4930546H06Rik	RIKEN cDNA 4930546H06 gene	1.8	8.46E-03
75339	54737	Mphosph8	M-phase phosphoprotein 8	0.87	9.48E-02
75552	344838	Paqr9	progesterin and adipoQ receptor family member IX	0.78	1.00E-02
75553	79882	Zc3h14	zinc finger CCCH type containing 14	1.14	2.57E-02
75572	98	Acyp2	acylphosphatase 2, muscle type	0.9	5.62E-02
75597	91942	Ndufaf2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 2	0.84	5.34E-02
75712	28978	Tmem14a	transmembrane protein 14A	1.19	8.84E-02
75735	53354	Pank1	pantothenate kinase 1	0.79	4.49E-02
76000		5033430I15Rik	RIKEN cDNA 5033430I15 gene	1.53	6.33E-02
76222	64110	Magef1	melanoma antigen family F, 1	1.46	8.45E-02
76294	140458	Asb5	ankyrin repeat and SOCs box-containing 5	1.71	1.94E-02
76355	23483	Tgds	TDP-glucose 4,6-dehydratase	0.74	5.39E-02
76366	219402	Mtif3	mitochondrial translational initiation factor 3	0.82	8.94E-02
76375	55070	Det1	de-etiolated homolog 1 (Arabidopsis)	0.71	9.48E-02
76429	64077	2310007H09Rik	RIKEN cDNA 2310007H09 gene	0.74	9.86E-02
76500	51447	Ip6k2	inositol hexaphosphate kinase 2	1.18	3.40E-02
76539	63877	D19Ertd737e	DNA segment, Chr 19, ERATO Doi 737, expressed	1.39	3.96E-02
76737	79174	Creld2	cysteine-rich with EGF-like domains 2	0.6	9.42E-03
76757	10345	Trdn	triadin	1.91	4.78E-02
76781	64863	Mettl4	methyltransferase like 4	0.71	3.08E-02
76789	440145	2410129H14Rik	RIKEN cDNA 2410129H14 gene	1.12	8.31E-02
76792	79794	2410131K14Rik	RIKEN cDNA 2410131K14 gene	0.86	9.43E-02



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76880		6430411K18Rik	RIKEN cDNA 6430411K18 gene	0.48	2.01E-02
76894	196074	Mett5d1	methyltransferase 5 domain containing 1	1.22	3.68E-02
76964	54058	2610028H24Rik	RIKEN cDNA 2610028H24 gene	0.74	7.07E-02
77006	65992	Ddrgk1	DDRGK domain containing 1	1.14	7.86E-02
77043		4632433K11Rik	RIKEN cDNA 4632433K11 gene	1.4	1.51E-02
77090	79629	Ocell1	occludin/ELL domain containing 1	0.81	9.70E-02
77134	10949	Hnrnpa0	heterogeneous nuclear ribonucleoprotein A0	1.08	3.72E-02
77371	10802	Sec24a	Sec24 related gene family, member A ( <i>S. cerevisiae</i> )	1.3	3.09E-02
77462	89894	Tmem116	transmembrane protein 116	1.36	6.14E-02
77533		C030034I22Rik	RIKEN cDNA C030034I22 gene	1.4	5.39E-02
77629	80309	Sphkap	SPHK1 interactor, AKAP domain containing	1.14	8.69E-02
77974	145226	Rdh12	retinol dehydrogenase 12	0.69	2.12E-02
77975	757	Tmem50b	transmembrane protein 50B	0.86	1.34E-02
78830	8604	Slc25a12	solute carrier family 25 (mitochondrial carrier, Aralar), member 12	1.13	6.32E-02
78889	26118	Wsb1	WD repeat and SOCS box-containing 1	1.29	1.51E-02
78977	64208	Popdc3	popeye domain containing 3	0.61	1.59E-02
80287	9582	Apobec3	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 3	0.68	3.34E-02
80294	23275	Pofut2	protein O-fucosyltransferase 2	0.85	6.77E-02
80517	64224	Herpud2	HERPUD family member 2	1.14	9.64E-02
80891		Fcrls	Fc receptor-like S, scavenger receptor	0.63	3.10E-03
81500	64374	Sil1	endoplasmic reticulum chaperone SIL1 homolog ( <i>S. cerevisiae</i> )	0.87	9.74E-02
81907	66000	Tmem108	transmembrane protein 108	1.38	3.66E-02
83485	51335	Ngrn	neugrin, neurite outgrowth associated	0.89	5.88E-02
83671	54843	Syt12	synaptotagmin-like 2	1.34	4.33E-02
83673	23642	Snhg1	small nucleolar RNA host gene (non-protein coding) 1	1.29	2.66E-02
83767	8936	Wasf1	WASP family 1	1.08	7.15E-02
83768	29952	Dpp7	dipeptidylpeptidase 7	0.77	1.34E-02
84036	3780	Kcnn1	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1	0.8	4.33E-02
84094	83483	Plvap	plasmalemma vesicle associated protein	1.32	7.28E-02
85031	51365	Pla1a	phospholipase A1 member A	1.49	7.07E-02
93687	1452	Csnk1a1	casein kinase 1, alpha 1	1.1	3.66E-02
93739	11345	Gabarapl2	gamma-aminobutyric acid (GABA) A receptor-associated protein-like 2	1.11	5.21E-02
93790	81614	Nipa2	non imprinted in Prader-Willi/Angelman syndrome 2 homolog (human)	1.18	4.72E-02

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93834	57161	Peli2	pellino 2	1.26	4.77E-02
93840	57216	Vangl2	vang-like 2 (van gogh, Drosophila)	1.54	8.03E-02
93878	56129	Pcdhb7	protocadherin beta 7	1.29	7.58E-02
93888	57717	Pcdhb17	protocadherin beta 17	1.22	7.51E-02
94045	5026	P2rx5	purinergic receptor P2X, ligand-gated ion channel, 5	0.63	3.65E-02
94066	64979	Mrpl36	mitochondrial ribosomal protein L36	0.84	9.01E-02
94067	84545	Mrpl43	mitochondrial ribosomal protein L43	0.85	4.49E-02
94281	119559	Sfxn4	sideroflexin 4	0.8	1.52E-02
97114	8352	Hist2h3c2	histone cluster 2, H3c2	0.52	4.71E-02
97212	3030	Hadha	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit	0.81	4.39E-02
97387	29888	Strn4	striatin, calmodulin binding protein 4	1.22	4.14E-02
98193	50717	Dcaf8	DDB1 and CUL4 associated factor 8	1.14	5.62E-02
98258	10190	Txndc9	thioredoxin domain containing 9	1.26	4.97E-02
98365	89886	Slamf9	SLAM family member 9	1.79	4.08E-03
99311	149951	Comm7	COMM domain containing 7	0.86	9.74E-02
99349	120526	Dnajc24	DnaJ (Hsp40) homolog, subfamily C, member 24	0.78	7.12E-02
99375	8451	Cul4a	cullin 4A	1.22	8.51E-02
100383	55108	Bsdc1	BSD domain containing 1	1.19	5.74E-02
100710	23047	Pds5b	PDS5, regulator of cohesion maintenance, homolog B ( <i>S. cerevisiae</i> )	1.23	9.97E-02
101694		AI854517	expressed sequence AI854517	1.51	2.24E-02
101966	28974	D8Ert738e	DNA segment, Chr 8, ERATO Doi 738, expressed	0.84	8.56E-02
102334	55608	Ankrd10	ankyrin repeat domain 10	1.17	7.07E-02
102595	80301	Plekho2	pleckstrin homology domain containing, family O member 2	0.81	8.03E-02
102954	170685	Nudt10	nudix (nucleoside diphosphate linked moiety X)-type motif 10	1.12	8.69E-02
103098	55117	Slc6a15	solute carrier family 6 (neurotransmitter transporter), member 15	1.18	3.09E-02
103284	84872	Zc3h10	zinc finger CCCH type containing 10	0.88	9.55E-02
103511	254228	Fam26e	family with sequence similarity 26, member E	0.76	4.89E-02
103537	54799	Mbt1	mbt domain containing 1	1.26	7.92E-02
103742	84299	1810046J19Rik	RIKEN cDNA 1810046J19 gene	0.9	5.30E-02
104027	11346	Synpo	synaptopodin	0.73	8.94E-02
104252	10435	Cdc42ep2	CDC42 effector protein (Rho GTPase binding) 2	0.66	5.62E-02
104479	150275	Ccdc117	coiled-coil domain containing 117	0.79	7.75E-02
105278	23552	Ccrk	cell cycle related kinase	0.6	3.10E-03

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105351	79020	AW209491	expressed sequence AW209491	0.86	5.62E-02
105504	10640	Exoc5	exocyst complex component 5	1.14	4.45E-02
105787	5562	Prkaa1	protein kinase, AMP-activated, alpha 1 catalytic subunit	1.27	4.45E-02
105827	347902	Amigo2	adhesion molecule with Ig like domain 2	0.76	8.44E-02
106042	144165	Prickle1	prickle like 1 (Drosophila)	1.11	7.60E-02
106338	63899	Nsun3	NOL1/NOP2/Sun domain family member 3	1.35	4.90E-02
107338	8729	Gbf1	golgi-specific brefeldin A-resistance factor 1	0.85	8.51E-02
107373	63901	Fam111a	family with sequence similarity 111, member A	0.64	7.29E-02
107747	10840	Aldh111	aldehyde dehydrogenase 1 family, member L1	0.76	5.86E-02
107770	53345	Tm6sf2	transmembrane 6 superfamily member 2	0.56	2.34E-02
107869	1491	Cth	cystathionase (cystathionine gamma-lyase)	0.53	8.82E-03
108067	8891	Eif2b3	eukaryotic translation initiation factor 2B, subunit 3	1.16	8.29E-02
108073	2917	Grm7	glutamate receptor, metabotropic 7	1.14	5.21E-02
108143	6880	Taf9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor	0.74	1.08E-02
108686	55704	Ccdc88a	coiled coil domain containing 88A	1.22	2.03E-02
108707	85395	1810008A18Rik	RIKEN cDNA 1810008A18 gene	0.79	1.40E-02
108841	112724	Rdh13	retinol dehydrogenase 13 (all-trans and 9-cis)	0.87	8.91E-02
108900	729533	Fam72a	family with sequence similarity 72, member A	0.59	2.44E-02
109136	166785	Mmaa	methylmalonic aciduria (cobalamin deficiency) type A	0.76	4.97E-02
109145	84296	Gins4	GINS complex subunit 4 (Sld5 homolog)	0.8	7.67E-02
109154	9761	Mlec	malectin	0.8	2.35E-02
109305	84876	Orai1	ORAI calcium release-activated calcium modulator 1	0.81	9.27E-02
109552	6717	Sri	sorcin	0.88	7.67E-02
110198	8574	Akr7a5	aldo-keto reductase family 7, member A5 (aflatoxin aldehyde reductase)	0.81	5.28E-02
110593	7799	Prdm2	PR domain containing 2, with ZNF domain	1.35	1.47E-02
110595	7079	Timp4	tissue inhibitor of metalloproteinase 4	0.84	3.46E-02
110695	501	Aldh7a1	aldehyde dehydrogenase family 7, member A1	0.84	8.29E-02
110826	2109	Etfb	electron transferring flavoprotein, beta polypeptide	0.82	5.57E-02
110960	6897	Tars	threonyl-tRNA synthetase	0.83	8.50E-02
114641	6160	Rpl31	ribosomal protein L31	0.87	8.58E-02
114863	11212	Prosc	proline synthetase co-transcribed	0.84	4.49E-02
121022	64968	Mrps6	mitochondrial ribosomal protein S6	0.8	9.28E-02
140493	3782	Kcnn3	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	0.82	8.05E-02

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140781	4625	Myh7	myosin, heavy polypeptide 7, cardiac muscle, beta	0.63	9.48E-02
170439	79071	Elov16	ELOVL family member 6, elongation of long chain fatty acids (yeast)	0.82	9.58E-02
170743	51284	Tlr7	toll-like receptor 7	1.32	9.92E-02
170771	202559	Khdrbs2	KH domain containing, RNA binding, signal transduction associated 2	1.24	6.48E-02
192156	4597	Mvd	mevalonate (diphospho) decarboxylase	0.69	8.82E-03
192167	22871	Nlgn1	neuroligin 1	1.13	5.75E-02
192185	65220	Nadk	NAD kinase	0.89	7.92E-02
192196	51631	Luc7l2	LUC7-like 2 ( <i>S. cerevisiae</i> )	1.21	2.69E-02
192198	64101	Lrrc4	leucine rich repeat containing 4	1.16	8.58E-02
192662	396	Arhgdia	Rho GDP dissociation inhibitor (GDI) alpha	0.9	6.31E-02
208228	126308	Mobk12a	MOB1, Mps One Binder kinase activator-like 2A (yeast)	0.77	5.34E-02
208638	54977	Slc25a38	solute carrier family 25, member 38	0.78	2.27E-02
208659	54757	Fam20a	family with sequence similarity 20, member A	0.8	9.77E-02
208727	9759	Hdac4	histone deacetylase 4	0.77	5.10E-02
208748	79057	Prrg3	proline rich Gla (G-carboxyglutamic acid) 3 (transmembrane)	0.8	5.39E-02
209462	57531	Hace1	HECT domain and ankyrin repeat containing, E3 ubiquitin protein ligase 1	1.27	8.82E-03
210108	9856	D130043K22Rik	RIKEN cDNA D130043K22 gene	0.79	5.34E-02
210719	283078	Mkx	mohawk homeobox	1.67	8.46E-03
210766	79184	Brcc3	BRCA1/BRCA2-containing complex, subunit 3	1.21	4.32E-02
211652	23286	Wwc1	WW, C2 and coiled-coil domain containing 1	0.84	3.09E-02
212123	90379	Dcaf15	DDB1 and CUL4 associated factor 15	1.15	9.38E-02
212647	8659	Aldh4a1	aldehyde dehydrogenase 4 family, member A1	0.84	6.98E-02
212919	154881	Kctd7	potassium channel tetramerisation domain containing 7	0.83	3.09E-02
213084	51265	Cdk13	cyclin-dependent kinase-like 3	1.37	7.67E-02
213393	11067	8430408G22Rik	RIKEN cDNA 8430408G22 gene	0.71	8.51E-02
213827	372	Arcn1	archain 1	1.15	1.55E-02
213895	9790	Bms1	BMS1 homolog, ribosome assembly protein (yeast)	0.81	6.31E-02
214791	56256	Sertad4	SERTA domain containing 4	1.49	9.17E-02
214895	81562	Lman2l	lectin, mannose-binding 2-like	0.74	9.42E-03
214899	5927	Kdm5a	lysine (K)-specific demethylase 5A	0.87	7.92E-02
215615	6051	Rnpep	arginyl aminopeptidase (aminopeptidase B)	0.8	3.57E-02
215821	57221	D10Bwg1379e	DNA segment, Chr 10, Brigham & Women's Genetics 1379 expressed	1.34	1.59E-02
216080	7321	Ube2d1	ubiquitin-conjugating enzyme E2D 1, UBC4/5 homolog (yeast)	1.2	6.48E-02
216177		AU041133	expressed sequence AU041133	0.71	8.71E-02

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216443	4141	Mars	methionine-tRNA synthetase	0.88	3.65E-02
216881	23302	Wscd1	WSC domain containing 1	0.86	9.48E-02
217031	6871	Tada2l	transcriptional adaptor 2 (ADA2 homolog, yeast)-like	1.12	9.79E-02
217371	10966	Rab40b	Rab40b, member RAS oncogene family	1.36	5.77E-02
217517	29091	Stxbp6	syntaxin binding protein 6 (amisyn)	1.28	3.09E-02
218503	115548	Fcho2	FCH domain only 2	1.19	4.86E-02
218793	7325	Ube2e2	ubiquitin-conjugating enzyme E2E 2 (UBC4/5 homolog, yeast)	1.12	2.12E-02
218811	9632	Sec24c	Sec24 related gene family, member C (S. cerevisiae)	0.85	1.51E-02
223601	51571	Fam49b	family with sequence similarity 49, member B	1.21	3.21E-02
223696	56993	Tomm22	translocase of outer mitochondrial membrane 22 homolog (yeast)	1.19	3.45E-02
223978	55313	Cpped1	Vcalcineurin-like phosphoesterase domain containing 1	1.12	6.48E-02
224022	6545	Slc7a4	solute carrier family 7 (cationic amino acid transporter, y+ system), member 4	0.81	4.52E-02
224111	26043	Ubxn7	UBX domain protein 7	0.8	2.69E-02
224171	57650	C330027C09Rik	RIKEN cDNA C330027C09 gene	1.32	4.48E-02
224481	51106	Tfb1m	transcription factor B1, mitochondrial	1.29	4.85E-02
224648	54887	Uhrf1bp1	UHRF1 (ICBP90) binding protein 1	0.86	7.44E-02
224694	55552	Zfp81	zinc finger protein 81	1.78	6.08E-03
224823	88745	BC011248	cDNA sequence BC011248	0.84	7.12E-02
225055	80204	Fbxo11	F-box protein 11	1.17	2.66E-02
225887	4728	Ndufs8	NADH dehydrogenase (ubiquinone) Fe-S protein 8	0.95	8.69E-02
226153	56652	Peo1	progressive external ophthalmoplegia 1 (human)	0.81	3.09E-02
226182	6877	Taf5	TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor	0.76	4.49E-02
226610	149297	Fam78b	family with sequence similarity 78, member B	0.78	9.28E-02
226654	100131187	Gm4848	predicted gene 4848	0.44	5.36E-03
226823	51133	Kctd3	potassium channel tetramerisation domain containing 3	1.18	3.97E-02
226976	55683	4632411B12Rik	RIKEN cDNA 4632411B12 gene	0.84	6.72E-02
227399	23262	Hisppd1	histidine acid phosphatase domain containing 1	1.23	5.38E-02
227683	51117	Coq4	coenzyme Q4 homolog (yeast)	0.8	5.77E-02
227738	90678	Lrsam1	leucine rich repeat and sterile alpha motif containing 1	0.81	8.80E-02
227835	79712	Gtdc1	glycosyltransferase-like domain containing 1	1.14	4.48E-02
227867	26122	Epc2	enhancer of polycomb homolog 2 (Drosophila)	1.18	2.03E-02
228858	78997	Gdap1l1	ganglioside-induced differentiation-associated protein 1-like 1	0.77	1.94E-02
229007	84619	Zgpat	zinc finger, CCCH-type with G patch domain	0.81	6.73E-02
229599	148523	Gm129	predicted gene 129	1.48	7.07E-02

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229675	54665	Rsbn1	rosbin, round spermatid basic protein 1	1.16	9.29E-02
229791	9890	D3Bwg0562e	DNA segment, Chr 3, Brigham & Women's Genetics 0562 expressed	1.14	3.09E-02
230119	9925	Zbtb5	zinc finger and BTB domain containing 5	0.77	5.21E-02
230157	8577	Tmeff1	transmembrane protein with EGF-like and two follistatin-like domains 1	1.13	1.59E-02
230598	4898	Nrd1	nardilysin, N-arginine dibasic convertase, NRD convertase 1	0.88	4.72E-02
230696	79078	AU022252	expressed sequence AU022252	0.61	1.00E-02
230734	79693	Yrdc	yrnC domain containing (E.coli)	1.23	9.17E-02
230779	347735	Serinc2	serine incorporator 2	0.75	6.69E-02
230848	9923	Zbtb40	zinc finger and BTB domain containing 40	0.68	6.57E-02
230936	148479	Phf13	PHD finger protein 13	0.84	5.90E-02
231225	202018	Tapt1	transmembrane anterior posterior transformation 1	1.14	7.67E-02
231279	60558	Guf1	GUF1 GTPase homolog (S. cerevisiae)	1.27	9.48E-02
231858	55698	Radil	Ras association and DIL domains	0.74	7.71E-02
231871	221955	Daglb	diacylglycerol lipase, beta	1.19	5.71E-02
232232	79885	Hdac11	histone deacetylase 11	0.88	7.67E-02
232288	23150	Frmd4b	FERM domain containing 4B	1.33	7.07E-02
232536	60488	Mrps35	mitochondrial ribosomal protein S35	0.84	9.05E-02
232816	89887	Zfp628	zinc finger protein 628	1.48	1.59E-02
232854	147686	Zfp418	zinc finger protein 418	0.59	1.95E-02
232878	342945	Zscan22	zinc finger and SCAN domain containing 22	0.59	3.07E-02
232943	147700	Klc3	kinesin light chain 3	1.22	8.51E-02
232946	388552	Bloc1s3	biogenesis of lysosome-related organelles complex-1, subunit 3	0.85	7.44E-02
233056	388536	Zfp790	zinc finger protein 790	0.7	7.07E-02
233271	338645	Luzp2	leucine zipper protein 2	1.23	8.91E-02
233805	123879	Dcun1d3	DCN1, defective in cullin neddylation 1, domain containing 3 (S. cerevisiae)	0.81	5.43E-02
233908	2521	Fus	fusion, derived from t(12;16) malignant liposarcoma (human)	1.12	2.14E-02
233913	64755	BC017158	cDNA sequence BC017158	0.84	8.90E-02
234214	8470	Sorbs2	sorbin and SH3 domain containing 2	1.17	7.92E-02
234356	55790	Csgalnact1	chondroitin sulfate N-acetylgalactosaminyltransferase 1	1.37	3.08E-02
235040	84971	Atg4d	autophagy-related 4D (yeast)	0.88	7.92E-02
235072	989	7-Sep	septin 7	1.17	6.04E-02
235344	23235	Sik2	salt inducible kinase 2	0.76	6.87E-02
235380	23312	Dmx12	Dmx-like 2	1.09	9.42E-02
235441	9960	Usp3	ubiquitin specific peptidase 3	1.29	4.44E-02

Mouse Entrez ID	Human Entrez ID	Symbol	Name	Fold Change	FDR
235459	2958	Gtf2a2	general transcription factor II A, 2	1.16	1.62E-02
237082	55916	Nxt2	nuclear transport factor 2-like export factor 2	1.17	7.71E-02
237353	344558	Sh3rf3	SH3 domain containing ring finger 3	0.82	5.88E-02
237761	134548	Ankrd43	ankyrin repeat domain 43	1.16	8.22E-02
238037	80304	BC068281	cDNA sequence BC068281	0.77	5.92E-02
238266	83851	Syt16	synaptotagmin XVI	1.3	1.09E-02
240255	64848	Ythdc2	YTH domain containing 2	1.25	3.84E-02
240832	163590	Tor1aip2	torsin A interacting protein 2	1.25	8.15E-02
241070	2825	Gpr1	G protein-coupled receptor 1	0.6	4.44E-02
242384	158038	Lingo2	leucine rich repeat and Ig domain containing 2	1.29	9.48E-02
242418	79269	Dcaf10	DDB1 and CUL4 associated factor 10	1.29	3.72E-02
243385	285513	Gprin3	GPRIN family member 3	0.76	7.23E-02
243653	51267	Clec1a	C-type lectin domain family 1, member a	1.71	4.86E-02
243833	7554	Zfp128	zinc finger protein 128	0.75	9.82E-02
244867	57569	Arhgap20	Rho GTPase activating protein 20	1.3	7.79E-02
245944	51542	Vps54	vacuolar protein sorting 54 (yeast)	1.16	4.80E-02
246313	128674	Prokr2	prokineticin receptor 2	0.71	5.70E-02
246738	54943	Dnajc28	DnaJ (Hsp40) homolog, subfamily C, member 28	0.65	1.93E-02
267019	6210	Rps15a	ribosomal protein S15A	1.19	3.97E-02
268354	338811	Fam19a2	family with sequence similarity 19, member A2	1.18	2.76E-02
268390	130872	Ahsa2	AHA1, activator of heat shock protein ATPase homolog 2 (yeast)	0.82	3.08E-02
268482	3859	Krt12	keratin 12	1.72	8.99E-02
268706	153129	Slc38a9	solute carrier family 38, member 9	0.83	4.49E-02
268932	57524	Caskin1	CASK interacting protein 1	0.84	4.50E-02
269113	53371	Nup54	nucleoporin 54	0.84	7.82E-02
269252	9329	Gtf3c4	general transcription factor IIIC, polypeptide 4	0.74	5.54E-02
269344	80237	Ell3	elongation factor RNA polymerase II-like 3	0.84	6.39E-02
269423	80167	3110057O12Rik	RIKEN cDNA 3110057O12 gene	0.75	5.57E-02
269623	84060	C030048B08Rik	RIKEN cDNA C030048B08 gene	1.22	6.73E-02
269630		BC050254	cDNA sequence BC050254	1.32	2.66E-02
270156	55216	AU019823	expressed sequence AU019823	1.27	5.14E-02
270160	54734	Rab39	RAB39, member RAS oncogene family	0.55	1.94E-02
271305	112885	Phf21b	PHD finger protein 21B	1.44	3.72E-02
271786	114805	Galnt13	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-	1.46	1.47E-02

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			acetylgalactosaminyltransferase 13		
271970	79642	Arsj	arylsulfatase J	1.6	5.62E-02
272009	135295	RP23-12I24.6	serine-arginine repressor protein	1.25	6.12E-02
277396	151230	Klhl23	kelch-like 23 (Drosophila)	1.1	8.44E-02
282619	374897	Sbsn	suprabasin	1.23	3.09E-02
319162	92815	Hist3h2a	histone cluster 3, H2a	0.83	7.92E-02
320011	56886	Uggt1	UDP-glucose glycoprotein glucosyltransferase 1	0.8	5.59E-02
320267	8939	Fubp3	far upstream element (FUSE) binding protein 3	1.17	4.49E-02
320376	63035	Bcor1l	BCL6 co-repressor-like 1	0.82	7.72E-02
320473	54497	Heatr5b	HEAT repeat containing 5B	0.8	4.49E-02
320593		A230051N06Rik	RIKEN cDNA A230051N06 gene	1.32	2.03E-02
320661	9778	D5Erd579e	DNA segment, Chr 5, ERATO Doi 579, expressed	1.07	9.63E-02
320709	84216	Tmem117	transmembrane protein 117	1.38	3.09E-02
320713	114803	Mysm1	myb-like, SWIRM and MPN domains 1	1.38	2.14E-02
321007	84947	Serac1	serine active site containing 1	0.8	3.14E-02
			protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting		
327814	8499	Ppfia2	protein (liprin), alpha 2	1.17	9.74E-02
327826	10818	Frs2	fibroblast growth factor receptor substrate 2	1.21	1.51E-02
328099		Gm5081	predicted gene 5081	0.82	5.38E-02
328309		Gm9776	predicted gene 9776	1.44	3.17E-02
328971		Spink10	serine peptidase inhibitor, Kazal type 10	0.67	5.34E-02
329274	148753	Fam163a	family with sequence similarity 163, member A	0.74	3.05E-02
329502	123745	Pla2g4e	phospholipase A2, group IVE	2.02	1.40E-02
329504	9836	Lcmt2	leucine carboxyl methyltransferase 2	1.24	4.86E-02
329628	79633	Fat4	FAT tumor suppressor homolog 4 (Drosophila)	1.59	1.34E-02
329828	57462	AI464131	expressed sequence AI464131	0.78	6.71E-02
330173		2610524H06Rik	RIKEN cDNA 2610524H06 gene	1.21	8.99E-02
330217	79690	Gal3st4	galactose-3-O-sulfotransferase 4	0.64	1.94E-02
330502	284406	Zfp82	zinc finger protein 82	0.66	6.14E-02
331026	29925	Gmppb	GDP-mannose pyrophosphorylase B	0.76	6.00E-02
338364	201292	Trim65	tripartite motif-containing 65	1.39	9.70E-02
353242	219927	Mrpl21	mitochondrial ribosomal protein L21	0.85	3.68E-02
353258	84946	Ltv1	LTV1 homolog (S. cerevisiae)	0.83	6.86E-02
353282	57713	Sfmbt2	Scm-like with four mbt domains 2	0.63	4.92E-02



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378462	378464	Morn2	MORN repeat containing 2	0.81	5.86E-02
378702	10169	Serf2	small EDRK-rich factor 2	0.83	5.30E-02
378937	441381	Lrrc24	leucine rich repeat containing 24	0.79	4.49E-02
380664	23592	Lemd3	LEM domain containing 3	1.15	8.07E-02
380753	222255	Atxn711	ataxin 7-like 1	1.66	2.03E-02
380928	4008	Lmo7	LIM domain only 7	1.31	1.94E-02
381633	401115	Gm1673	predicted gene 1673	0.85	3.97E-02
382038	9816	Urb2	URB2 ribosome biogenesis 2 homolog (S. cerevisiae)	0.8	5.62E-02
382089	134701	Ripply2	rippy2 homolog (zebrafish)	1.57	2.34E-02
386753	400624	Dbpht2	DNA binding protein with his-thr domain	1.48	1.47E-02
394431	7361	Ugt1a@	UDP glycosyltransferase 1 family, polypeptide A cluster	1.53	8.60E-02
407821	84133	Znrf3	zinc and ring finger 3	1.3	4.49E-02
415115	140825	Neurl2	neuralized-like 2 (Drosophila)	1.29	8.45E-02
432450	154215	Nkain2	Na <sup>+</sup> /K <sup>+</sup> transporting ATPase interacting 2	1.19	3.09E-02
434778	347475	6330534C20Rik	RIKEN cDNA 6330534C20 gene	0.58	8.46E-03
449521	7760	Zfp213	zinc finger protein 213	0.8	4.80E-02
474156	221504	Zbtb9	zinc finger and BTB domain containing 9	0.73	4.08E-02
574402	2840	Gpr17	G protein-coupled receptor 17	0.67	6.73E-02
622208		Gm6297	predicted gene 6297	1.77	4.15E-02
622320	283219	Kctd21	potassium channel tetramerisation domain containing 21	0.69	1.94E-02
623346	28977	Gm6419	predicted gene 6419	0.9	7.15E-02
624866		Gm6534	predicted gene 6534	0.72	5.59E-02
634731	64420	Gm12528	predicted gene 12528	1.59	3.65E-02
641376	84134	Tomm40l	translocase of outer mitochondrial membrane 40 homolog-like (yeast)	0.85	5.62E-02
665193				1.86	1.51E-02
665934		EG665934	predicted gene, EG665934	1.74	8.82E-03
668166	158586	Zxdb	zinc finger, X-linked, duplicated B	1.32	1.59E-02
668212	22979	Efr3b	EFR3 homolog B (S. cerevisiae)	0.88	7.25E-02
100037258	5611	Dnajc3	DnaJ (Hsp40) homolog, subfamily C, member 3	0.84	6.73E-02
100039307		Gm2149	predicted gene 2149	1.41	2.44E-02
100039495		Gm15706	predicted gene 15706	1.49	1.47E-02
100040220		Gm9892	predicted gene 9892	1.14	6.56E-02
100040518				1.85	6.08E-03
100041035				1.55	5.77E-02

Mouse	Human				
Entrez ID	Entrez ID	Symbol	Name	Fold Change	FDR
100041294		Gm3258	predicted gene 3258	0.88	9.48E-02
100042008		Gm9794	predicted gene 9794	1.1	7.82E-02
100042616		Gm3932	predicted gene 3932	0.76	4.77E-02
100043736		Gm10762	predicted gene 10762	1.45	2.27E-02