

**Table S4. List of genes, which demonstrated decreased expression (fold change  $\geq 1.2$  and  $p \leq 0.05$ ) in the DG of defeated mice when compared with the controls.**

<b>Gene Symbol</b>	<b>Ensembl Id</b>	<b>Gene Name</b>	<b>Fold Change</b>
0610007P08Rik	ENSMUSG00000021470	RIKEN cDNA 0610007P08 gene	0.82
0610007P22Rik	ENSMUSG00000015126	RIKEN cDNA 0610007P22 gene	0.80
1110021J02Rik	ENSMUSG00000024018	RIKEN cDNA 1110021J02 gene	0.67
1600029O15Rik	ENSMUSG000000057818	RIKEN cDNA 1600029O15 gene	0.78
1700001F09Rik	ENSMUSG000000072603	RIKEN cDNA 1700001F09 gene	0.83
1700003M02Rik	ENSMUSG000000028294	RIKEN cDNA 1700003M02 gene	0.76
1700022111Rik	ENSMUSG000000028451	RIKEN cDNA 1700022111 gene	0.70
1700023E05Rik	ENSMUSG000000029248	RIKEN cDNA 1700023E05 gene	0.72
1700029F09Rik	ENSMUSG000000026049	RIKEN cDNA 1700029F09 gene	0.59
1700034I23Rik	ENSMUSG000000074619	RIKEN cDNA 1700034I23 gene	0.76
2310003L22Rik	ENSMUSG000000027384	RIKEN cDNA 2310003L22 gene	0.69
2310079F23Rik	ENSMUSG000000029097	RIKEN cDNA 2310079F23 gene	0.66
2410015M20Rik	ENSMUSG000000049760	RIKEN cDNA 2410015M20 gene	0.81
2410141K09Rik	ENSMUSG000000074832	RIKEN cDNA 2410141K09 gene	0.82
2810417H13Rik	ENSMUSG000000040204	RIKEN cDNA 2810417H13 gene	0.72
3110003A17Rik	ENSMUSG000000078453	RIKEN cDNA 3110003A17 gene	0.81
3110039M20Rik	ENSMUSG000000089922	RIKEN cDNA 3110039M20 gene	0.54
4930438A08Rik	ENSMUSG000000069873	RIKEN cDNA 4930438A08 gene	0.81
4930447C04Rik	ENSMUSG000000021098	RIKEN cDNA 4930447C04 gene	0.53
4930506M07Rik	ENSMUSG0000000041362	RIKEN cDNA 4930506M07 gene	0.80
4930512M02Rik	ENSMUSG000000062511	RIKEN cDNA 4930512M02 gene	0.71
4930547N16Rik	ENSMUSG000000035365	RIKEN cDNA 4930547N16 gene	0.81
4930578C19Rik	ENSMUSG000000037358	RIKEN cDNA 4930578C19 gene	0.83
4932442L08Rik	ENSMUSG000000043549	RIKEN cDNA 4932442L08 gene	0.65
4933427G17Rik	ENSMUSG000000030877	RIKEN cDNA 4933427G17 gene	0.63
5330437I02Rik	ENSMUSG000000046610	RIKEN cDNA 5330437I02 gene	0.81
6820408C15Rik	ENSMUSG000000032680	RIKEN cDNA 6820408C15 gene	0.80
A130023I24Rik	ENSMUSG000000050066	RIKEN cDNA A130023I24 gene	0.82
A1bg	ENSMUSG000000022347	alpha-1-B glycoprotein	0.48
A630010A05Rik	ENSMUSG000000075395	RIKEN cDNA A630010A05 gene	0.83
Abca4	ENSMUSG000000028125	ATP-binding cassette, sub-family A (ABC1), member 4	0.76
Abca8b	ENSMUSG000000020620	ATP-binding cassette, sub-family A (ABC1), member 8b	0.83
Abcb4	ENSMUSG000000042476	ATP-binding cassette, sub-family B (MDR/TAP), member 4	0.69
Abcc2	ENSMUSG000000025194	ATP-binding cassette, sub-family C (CFTR/MRP), member 2	0.73
Abi3bp	ENSMUSG000000035258	ABI gene family, member 3 (NESH) binding protein	0.78
Acaa1b	ENSMUSG000000010651	acetyl-Coenzyme A acyltransferase 1B	0.81
Acbd7	ENSMUSG000000026644	acyl-Coenzyme A binding domain containing 7	0.80
Acox2	ENSMUSG000000021751	acyl-Coenzyme A oxidase 2, branched chain	0.73
Acp1	ENSMUSG000000044573	acid phosphatase 1, soluble	0.65
Acta2	ENSMUSG000000035783	actin, alpha 2, smooth muscle, aorta	0.81
Actr10	ENSMUSG000000021076	ARP10 actin-related protein 10 homolog (S. cerevisiae)	0.78
Actr1a	ENSMUSG000000025228	ARP1 actin-related protein 1 homolog A, centractin alpha (yeast)	0.81
Adam2	ENSMUSG000000022039	a disintegrin and metallopeptidase domain 2	0.83
Adam6b	ENSMUSG000000051804	a disintegrin and metallopeptidase domain 6B	0.72
Adamts20	ENSMUSG000000022449	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 20	0.65
Adora2b	ENSMUSG000000018500	adenosine A2b receptor	0.80
Adrb2	ENSMUSG000000045730	adrenergic receptor, beta 2	0.83
Al413582	ENSMUSG000000062753	expressed sequence Al413582	0.77
Akap13	ENSMUSG000000066406	A kinase (PRKA) anchor protein 13	0.45
Akr1c13	ENSMUSG000000021213	aldo-keto reductase family 1, member C13	0.65
Akr1c21	ENSMUSG0000000021207	aldo-keto reductase family 1, member C21	0.65
Alox15	ENSMUSG000000018924	arachidonate 15-lipoxygenase	0.82
Alpk3	ENSMUSG000000038763	alpha-kinase 3	0.80
Alpl	ENSMUSG000000028766	alkaline phosphatase, liver/bone/kidney	0.75
Alppl2	ENSMUSG000000026246	alkaline phosphatase, placental-like 2	0.75
Amotl1	ENSMUSG000000013076	angiomin-like 1	0.77
Ampd3	ENSMUSG000000005686	adenosine monophosphate deaminase 3	0.77
Amy2b	ENSMUSG000000083079	amylase 2b	0.73
Aqp4	ENSMUSG000000024411	aquaporin 4	0.75
Arhgap4	ENSMUSG000000031389	Rho GTPase activating protein 4	0.72
Arhgef1	ENSMUSG000000040940	Rho guanine nucleotide exchange factor (GEF) 1	0.79

<i>Arl6ip4</i>	ENSMUSG00000029404	ADP-ribosylation factor-like 6 interacting protein 4	0.83
<i>Arl6ip6</i>	ENSMUSG00000026960	ADP-ribosylation factor-like 6 interacting protein 6	0.78
<i>Asb14</i>	ENSMUSG000000021898	ankyrin repeat and SOCS box-containing 14	0.83
<i>Ascl2</i>	ENSMUSG000000009248	achaete-scute complex homolog 2 (Drosophila)	0.75
<i>Aspdh</i>	ENSMUSG000000038704	aspartate dehydrogenase domain containing	0.77
<i>Avil</i>	ENSMUSG000000025432	advillin	0.60
<i>AW146020</i>	ENSMUSG000000035125	expressed sequence AW146020	0.77
<i>B230216G23Rik</i>	ENSMUSG000000071112	RIKEN cDNA B230216G23 gene	0.80
<i>B230319C09Rik</i>	ENSMUSG000000051844	RIKEN cDNA B230319C09 gene	0.77
<i>Bag2</i>	ENSMUSG000000042215	BCL2-associated athanogene 2	0.70
<i>BC002059</i>	ENSMUSG000000060149	cDNA sequence BC002059	0.71
<i>BC030500</i>	ENSMUSG000000049946	cDNA sequence BC030500	0.75
<i>BC049730</i>	ENSMUSG000000045587	cDNA sequence BC049730	0.78
<i>Bcl2l14</i>	ENSMUSG000000030200	BCL2-like 14 (apoptosis facilitator)	0.72
<i>Bmf</i>	ENSMUSG000000040093	BCL2 modifying factor	0.60
<i>Bmp4</i>	ENSMUSG000000021835	bone morphogenetic protein 4	0.78
<i>Brwd1</i>	ENSMUSG000000022914	bromodomain and WD repeat domain containing 1	0.83
<i>Brwd3</i>	ENSMUSG000000063663	bromodomain and WD repeat domain containing 3	0.70
<i>Btf3l4</i>	ENSMUSG000000028568	basic transcription factor 3-like 4	0.82
<i>Calb2</i>	ENSMUSG000000003657	calbindin 2	0.52
<i>Calcb</i>	ENSMUSG000000030666	calcitonin-related polypeptide, beta	0.79
<i>Car9</i>	ENSMUSG000000028463	carbonic anhydrase 9	0.77
<i>Casp2</i>	ENSMUSG000000029863	caspase 2	0.68
<i>Catsper4</i>	ENSMUSG000000048003	cation channel, sperm associated 4	0.82
<i>Ccdc114</i>	ENSMUSG000000040189	coiled-coil domain containing 114	0.75
<i>Ccdc122</i>	ENSMUSG000000034795	coiled-coil domain containing 122	0.75
<i>Ccdc77</i>	ENSMUSG000000030177	coiled-coil domain containing 77	0.76
<i>Cdc14b</i>	ENSMUSG000000033102	CDC14 cell division cycle 14 homolog B (S. cerevisiae)	0.77
<i>Ces1a</i>	ENSMUSG000000071047	carboxylesterase 1A	0.78
<i>Chat</i>	ENSMUSG000000021919	choline acetyltransferase	0.62
<i>Cks1b</i>	ENSMUSG000000028044	CDC28 protein kinase 1b	0.72
<i>Cldn13</i>	ENSMUSG000000008843	claudin 13	0.82
<i>Clgn</i>	ENSMUSG000000002190	calmegin	0.79
<i>Clvs2</i>	ENSMUSG000000019785	clavesin 2	0.83
<i>Cntd1</i>	ENSMUSG000000078653	cyclin N-terminal domain containing 1	0.78
<i>Col16a1</i>	ENSMUSG000000040690	collagen, type XVI, alpha 1	0.78
<i>Col5a2</i>	ENSMUSG000000026042	collagen, type V, alpha 2	0.64
<i>Col6a4</i>	ENSMUSG000000032572	collagen, type VI, alpha 4	0.69
<i>Coq6</i>	ENSMUSG000000021235	coenzyme Q6 homolog (yeast)	0.76
<i>Cpn1</i>	ENSMUSG000000025196	carboxypeptidase N, polypeptide 1	0.63
<i>Crispld1</i>	ENSMUSG000000025776	cysteine-rich secretory protein LCCL domain containing 1	0.82
<i>Crybb2</i>	ENSMUSG000000042240	crystallin, beta B2	0.73
<i>Cse1l</i>	ENSMUSG000000002718	chromosome segregation 1-like (S. cerevisiae)	0.82
<i>Csn1s1</i>	ENSMUSG000000070702	casein alpha s1	0.78
<i>Csn2</i>	ENSMUSG000000063157	casein beta	0.76
<i>Cyp3a59</i>	ENSMUSG000000061292	cytochrome P450, subfamily 3A, polypeptide 59	0.77
<i>Cyp4a12a</i>	ENSMUSG000000066071	cytochrome P450, family 4, subfamily a, polypeptide 12a	0.74
<i>Cyp4b1</i>	ENSMUSG000000028713	cytochrome P450, family 4, subfamily b, polypeptide 1	0.78
<i>Cyp51</i>	ENSMUSG000000001467	cytochrome P450, family 51	0.78
<i>Dbp</i>	ENSMUSG000000059824	D site albumin promoter binding protein	0.80
<i>Dcdc2a</i>	ENSMUSG000000035910	doublecortin domain containing 2a	0.81
<i>Diap2</i>	ENSMUSG000000034480	diaphanous homolog 2 (Drosophila)	0.49
<i>Dnaic1</i>	ENSMUSG000000061322	dynein, axonemal, intermediate chain 1	0.67
<i>Dnm3os</i>	ENSMUSG000000078190	dynamitin 3, opposite strand	0.69
<i>Dok7</i>	ENSMUSG000000044716	docking protein 7	0.80
<i>Dph3</i>	ENSMUSG000000021905	DPH3 homolog (KTI11, S. cerevisiae)	0.58
<i>Drd3</i>	ENSMUSG000000022705	dopamine receptor D3	0.83
<i>Dydc2</i>	ENSMUSG000000021791	DPY30 domain containing 2	0.71
<i>Efthb</i>	ENSMUSG000000023931	EF hand domain family, member B	0.75
<i>Ehmt1</i>	ENSMUSG000000036893	euchromatic histone methyltransferase 1	0.77
<i>Eif4e2</i>	ENSMUSG000000026254	eukaryotic translation initiation factor 4E member 2	0.83
<i>Epyc</i>	ENSMUSG000000019936	epiphycan	0.82
<i>Ercc8</i>	ENSMUSG000000021694	excision repair cross-complementing rodent repair deficiency, complementation group 8	0.60
<i>Esco2</i>	ENSMUSG000000022034	establishment of cohesion 1 homolog 2 (S. cerevisiae)	0.76
<i>F12</i>	ENSMUSG000000021492	coagulation factor XII (Hageman factor)	0.80

<i>F9</i>	ENSMUSG00000031138	coagulation factor IX	0.79
<i>Fabp7</i>	ENSMUSG00000019874	fatty acid binding protein 7, brain	0.69
<i>Fah</i>	ENSMUSG00000030630	fumarylacetoacetate hydrolase	0.77
<i>Fam115e</i>	ENSMUSG00000018656	family with sequence similarity 115, member E	0.76
<i>Fam38a</i>	ENSMUSG00000014444	family with sequence similarity 38, member A	0.57
<i>Fam83f</i>	ENSMUSG00000022408	family with sequence similarity 83, member F	0.65
<i>Fbn1</i>	ENSMUSG00000027204	fibillin 1	0.76
<i>Fbxo40</i>	ENSMUSG00000047746	F-box protein 40	0.76
<i>Fbxo47</i>	ENSMUSG00000070336	F-box protein 47	0.70
<i>Fbxw9</i>	ENSMUSG00000008167	F-box and WD-40 domain protein 9	0.72
<i>Fcgbp</i>	ENSMUSG000000047730	Fc fragment of IgG binding protein	0.75
<i>Fgfr2</i>	ENSMUSG00000030849	fibroblast growth factor receptor 2	0.80
<i>Foxi1</i>	ENSMUSG00000047861	forkhead box I1	0.80
<i>Foxp2</i>	ENSMUSG00000029563	forkhead box P2	0.69
<i>Frat1</i>	ENSMUSG000000067199	frequently rearranged in advanced T-cell lymphomas	0.80
<i>Frmf7</i>	ENSMUSG00000036131	FERM domain containing 7	0.78
<i>Furin</i>	ENSMUSG00000030530	furin (paired basic amino acid cleaving enzyme)	0.69
<i>Gab3</i>	ENSMUSG00000032750	growth factor receptor bound protein 2-associated protein 3	0.73
<i>Galnt12</i>	ENSMUSG00000039774	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 12	0.81
<i>Ghr</i>	ENSMUSG00000055737	growth hormone receptor	0.80
<i>Gjc2</i>	ENSMUSG00000043448	gap junction protein, gamma 2	0.82
<i>Glb1l</i>	ENSMUSG00000026200	galactosidase, beta 1-like	0.69
<i>Gli2</i>	ENSMUSG00000048402	GLI-Kruppel family member GLI2	0.75
<i>Gli25d2</i>	ENSMUSG00000032649	glycosyltransferase 25 domain containing 2	0.81
<i>Gm10156</i>	ENSMUSG00000066245	predicted gene 10156	0.69
<i>Gm10410</i>	ENSMUSG00000072741	predicted gene 10410	0.74
<i>Gm10663</i>	ENSMUSG00000074302	predicted gene 10663	0.61
<i>Gm10988</i>	ENSMUSG00000078767	predicted gene 10988	0.46
<i>Gm11349</i>	ENSMUSG00000080840	predicted gene 11349	0.79
<i>Gm12302</i>	ENSMUSG00000070402	predicted gene 12302	0.78
<i>Gm12321</i>	ENSMUSG00000083171	predicted gene 12321	0.77
<i>Gm12365</i>	ENSMUSG00000083851	predicted gene 12365	0.74
<i>Gm12642</i>	ENSMUSG00000082325	predicted gene 12642	0.82
<i>Gm12717</i>	ENSMUSG00000081696	predicted gene 12717	0.79
<i>Gm1332</i>	ENSMUSG00000074628	predicted gene 1332	0.77
<i>Gm13359</i>	ENSMUSG00000082951	predicted gene 13359	0.81
<i>Gm14085</i>	ENSMUSG00000079071	predicted gene 14085	0.63
<i>Gm14105</i>	ENSMUSG00000074763	predicted gene 14105	0.82
<i>Gm15453</i>	ENSMUSG00000081535	predicted gene 15453	0.68
<i>Gm15495</i>	ENSMUSG00000081732	predicted gene 15495	0.80
<i>Gm16432</i>	ENSMUSG00000066667	predicted gene 16432	0.83
<i>Gm16462</i>	ENSMUSG00000071735	predicted gene 16462	0.62
<i>Gm16843</i>	ENSMUSG00000076619	predicted gene, 16843	0.57
<i>Gm17462</i>	ENSMUSG00000091626	predicted gene, 17462	0.60
<i>Gm17672</i>	ENSMUSG00000090847	predicted gene, 17672	0.60
<i>Gm2663</i>	ENSMUSG00000090480	predicted gene 2663	0.83
<i>Gm2783</i>	ENSMUSG00000090316	predicted gene 2783	0.60
<i>Gm3594</i>	ENSMUSG00000090943	predicted gene 3594	0.80
<i>Gm3636</i>	ENSMUSG00000091754	predicted gene 3636	0.69
<i>Gm3662</i>	ENSMUSG00000091663	predicted gene 3662	0.60
<i>Gm3696</i>	ENSMUSG00000092167	predicted gene 3696	0.75
<i>Gm3727</i>	ENSMUSG00000091325	predicted gene 3727	0.65
<i>Gm3739</i>	ENSMUSG00000091472	predicted gene 3739	0.76
<i>Gm3755</i>	ENSMUSG00000091227	predicted gene 3755	0.65
<i>Gm3760</i>	ENSMUSG00000091042	predicted gene 3760	0.65
<i>Gm4027</i>	ENSMUSG00000092019	predicted gene 4027	0.72
<i>Gm4736</i>	ENSMUSG00000079276	predicted gene 4736	0.76
<i>Gm4955</i>	ENSMUSG00000037849	predicted gene 4955	0.59
<i>Gm5277</i>	ENSMUSG00000091361	predicted gene 5277	0.71
<i>Gm5431</i>	ENSMUSG00000058163	predicted gene 5431	0.67
<i>Gm5458</i>	ENSMUSG00000071574	predicted gene 5458	0.81
<i>Gm6356</i>	ENSMUSG00000091400	predicted gene 6356	0.64
<i>Gm6455</i>	ENSMUSG00000070940	predicted gene 6455	0.74
<i>Gm6905</i>	ENSMUSG00000090938	predicted gene 6905	0.75
<i>Gm7651</i>	ENSMUSG00000092227	predicted gene 7651	0.73

<i>Gm8374</i>	ENSMUSG00000091676	predicted gene 8374	0.78
<i>Gm867</i>	ENSMUSG00000050157	predicted gene 867	0.80
<i>Gm9246</i>	ENSMUSG00000082080	predicted gene 9246	0.72
<i>Gm9705</i>	ENSMUSG00000062464	predicted gene 9705	0.77
<i>Gng8</i>	ENSMUSG00000063594	guanine nucleotide binding protein (G protein), gamma 8	0.71
<i>Golga2</i>	ENSMUSG00000002546	golgi autoantigen, golgin subfamily a, 2	0.75
<i>Gzme</i>	ENSMUSG00000022156	granzyme E	0.79
<i>H2-DMb1</i>	ENSMUSG00000079547	histocompatibility 2, class II, locus Mb1	0.68
<i>Hat1</i>	ENSMUSG00000027018	histone aminotransferase 1	0.83
<i>Hdhd3</i>	ENSMUSG00000038422	haloacid dehalogenase-like hydrolase domain containing 3	0.77
<i>Hif1an</i>	ENSMUSG00000036450	hypoxia-inducible factor 1, alpha subunit inhibitor	0.75
<i>Hoxd1</i>	ENSMUSG00000042448	homeobox D1	0.79
<i>Hrc</i>	ENSMUSG00000038239	histidine rich calcium binding protein	0.82
<i>Hsd3b7</i>	ENSMUSG00000042289	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7	0.83
<i>Htatip2</i>	ENSMUSG00000039745	HIV-1 tat interactive protein 2, homolog (human)	0.38
<i>Hus1b</i>	ENSMUSG00000076430	Hus1 homolog b (S. pombe)	0.82
<i>Huwe1</i>	ENSMUSG00000025261	HECT, UBA and WWE domain containing 1	0.72
<i>Hyal1</i>	ENSMUSG00000010051	hyaluronoglucosaminidase 1	0.69
<i>Ica1</i>	ENSMUSG00000062995	islet cell autoantigen 1	0.77
<i>Igf2bp3</i>	ENSMUSG00000029814	insulin-like growth factor 2 mRNA binding protein 3	0.78
<i>Igkv12-41</i>	ENSMUSG00000076568	immunoglobulin kappa chain variable 12-41	0.80
<i>Igkv14-111</i>	ENSMUSG00000076519	immunoglobulin kappa variable 14-111	0.58
<i>Igsf5</i>	ENSMUSG00000000159	immunoglobulin superfamily, member 5	0.79
<i>Ikbkb</i>	ENSMUSG00000031537	inhibitor of kappaB kinase beta	0.74
<i>Impdh1</i>	ENSMUSG00000003500	inosine 5'-phosphate dehydrogenase 1	0.80
<i>Iqcd</i>	ENSMUSG00000029601	IQ motif containing D	0.74
<i>Itga9</i>	ENSMUSG00000039115	integrin alpha 9	0.75
<i>Kctd9</i>	ENSMUSG00000034327	potassium channel tetramerisation domain containing 9	0.82
<i>Kif21b</i>	ENSMUSG00000041642	kinesin family member 21B	0.79
<i>Kif24</i>	ENSMUSG00000028438	kinesin family member 24	0.66
<i>Kif2c</i>	ENSMUSG00000028678	kinesin family member 2C	0.66
<i>Klk1b26</i>	ENSMUSG00000053719	kallikrein 1-related peptidase b26	0.80
<i>Klk1b27</i>	ENSMUSG00000063177	kallikrein 1-related peptidase b27	0.77
<i>Kpna7</i>	ENSMUSG00000038770	karyopherin alpha 7 (importin alpha 8)	0.61
<i>Krt73</i>	ENSMUSG00000063661	keratin 73	0.73
<i>Krtap3-3</i>	ENSMUSG00000069722	keratin associated protein 3-3	0.78
<i>Lama5</i>	ENSMUSG00000015647	laminin, alpha 5	0.81
<i>Larp1b</i>	ENSMUSG00000037814	La ribonucleoprotein domain family, member 1B	0.73
<i>Lca5</i>	ENSMUSG00000032258	Leber congenital amaurosis 5 (human)	0.82
<i>Lce1d</i>	ENSMUSG00000078658	late cornified envelope 1D	0.83
<i>Lect1</i>	ENSMUSG00000022025	leukocyte cell derived chemotaxin 1	0.72
<i>Lif</i>	ENSMUSG00000034394	leukemia inhibitory factor	0.83
<i>Lilrb4</i>	ENSMUSG00000062593	leukocyte immunoglobulin-like receptor, subfamily B, member 4	0.80
<i>Lix1</i>	ENSMUSG00000047786	limb expression 1 homolog (chicken)	0.83
<i>Lman1l</i>	ENSMUSG00000056271	lectin, mannose-binding 1 like	0.78
<i>Loxhd1</i>	ENSMUSG00000032818	lipoxigenase homology domains 1	0.82
<i>Lrrc18</i>	ENSMUSG00000041673	leucine rich repeat containing 18	0.76
<i>Ltbp4</i>	ENSMUSG00000040488	latent transforming growth factor beta binding protein 4	0.76
<i>Ly75</i>	ENSMUSG00000026980	lymphocyte antigen 75	0.71
<i>Mad2l1bp</i>	ENSMUSG00000034509	MAD2L1 binding protein	0.74
<i>Mageb2</i>	ENSMUSG00000073069	melanoma antigen, family B, 2	0.62
<i>Man1a2</i>	ENSMUSG00000008763	mannosidase, alpha, class 1A, member 2	0.71
<i>Mapre1</i>	ENSMUSG00000027479	microtubule-associated protein, RP/EB family, member 1	0.76
<i>Mcoln2</i>	ENSMUSG00000011008	mucoilin 2	0.77
<i>Meis1</i>	ENSMUSG00000020160	Meis homeobox 1	0.73
<i>Melk</i>	ENSMUSG00000035683	maternal embryonic leucine zipper kinase	0.78
<i>Mettl11a</i>	ENSMUSG00000026857	methyltransferase like 11A	0.75
<i>Mfrp</i>	ENSMUSG00000034739	membrane-type frizzled-related protein	0.74
<i>Mgl2</i>	ENSMUSG00000040950	macrophage galactose N-acetyl-galactosamine specific lectin 2	0.36
<i>Mib1</i>	ENSMUSG00000024294	mindbomb homolog 1 (Drosophila)	0.80
<i>Mill2</i>	ENSMUSG00000040987	MHC I like leukocyte 2	0.79
<i>Mir692-1</i>	ENSMUSG00000076218	microRNA 692-1	0.79
<i>Mis18bp1</i>	ENSMUSG00000047534	MIS18 binding protein 1	0.82
<i>Mospd1</i>	ENSMUSG00000023074	motile sperm domain containing 1	0.74
<i>Mpo</i>	ENSMUSG00000009350	myeloperoxidase	0.79

<i>Mpz1</i>	ENSMUSG00000026566	myelin protein zero-like 1	0.79
<i>Mrc1</i>	ENSMUSG00000026712	mannose receptor, C type 1	0.32
<i>Mre11a</i>	ENSMUSG000000031928	meiotic recombination 11 homolog A ( <i>S. cerevisiae</i> )	0.71
<i>Mtap7d3</i>	ENSMUSG000000067878	MAP7 domain containing 3	0.73
<i>Mtf1</i>	ENSMUSG000000028890	metal response element binding transcription factor 1	0.65
<i>Mtm1</i>	ENSMUSG000000031337	X-linked myotubular myopathy gene 1	0.72
<i>Mtmr1</i>	ENSMUSG000000015214	myotubularin related protein 1	0.83
<i>Mtmr4</i>	ENSMUSG000000018401	myotubularin related protein 4	0.74
<i>Muc4</i>	ENSMUSG000000079620	mucin 4	0.82
<i>Myo1c</i>	ENSMUSG000000017774	myosin IC	0.72
<i>Myo1g</i>	ENSMUSG000000020437	myosin IG	0.78
<i>Naalad11</i>	ENSMUSG000000054999	N-acetylated alpha-linked acidic dipeptidase-like 1	0.81
<i>Naip3</i>	ENSMUSG000000082956	NLR family, apoptosis inhibitory protein 3	0.75
<i>Neb</i>	ENSMUSG000000026950	nebulin	0.79
<i>Nes</i>	ENSMUSG000000004891	nestin	0.74
<i>Nexn</i>	ENSMUSG000000039103	nexilin	0.65
<i>Nln</i>	ENSMUSG000000021710	neurolysin (metallopeptidase M3 family)	0.80
<i>Nostrin</i>	ENSMUSG000000034738	nitric oxide synthase trafficker	0.71
<i>Npy</i>	ENSMUSG000000029819	neuropeptide Y	0.81
<i>Npy2r</i>	ENSMUSG000000028004	neuropeptide Y receptor Y2	0.75
<i>Nr3c2</i>	ENSMUSG000000031618	nuclear receptor subfamily 3, group C, member 2	0.79
<i>Ntn5</i>	ENSMUSG000000070564	netrin 5	0.75
<i>Nudt1</i>	ENSMUSG000000036639	nudix (nucleoside diphosphate linked moiety X)-type motif 1	0.77
<i>Nup62cl</i>	ENSMUSG000000072944	nucleoporin 62 C-terminal like	0.67
<i>Nup88</i>	ENSMUSG000000040667	nucleoporin 88	0.77
<i>Nyx</i>	ENSMUSG000000051228	nyctalopin	0.75
<i>Oc90</i>	ENSMUSG000000015001	otoconin 90	0.83
<i>Ofd1</i>	ENSMUSG000000040586	oral-facial-digital syndrome 1 gene homolog (human)	0.80
<i>Olf1021-ps1</i>	ENSMUSG000000082754	olfactory receptor 1021, pseudogene 1	0.80
<i>Olf1128</i>	ENSMUSG000000075156	olfactory receptor 1128	0.79
<i>Olf1129</i>	ENSMUSG000000062272	olfactory receptor 1129	0.79
<i>Olf1282</i>	ENSMUSG000000074964	olfactory receptor 1282	0.75
<i>Olf13</i>	ENSMUSG000000043605	olfactory receptor 13	0.77
<i>Olf1477</i>	ENSMUSG000000071629	olfactory receptor 1477	0.79
<i>Olf1508</i>	ENSMUSG000000057564	olfactory receptor 1508	0.81
<i>Olf153</i>	ENSMUSG000000061520	olfactory receptor 153	0.77
<i>Olf22-ps1</i>	ENSMUSG000000079875	olfactory receptor 22, pseudogene 1	0.80
<i>Olf43</i>	ENSMUSG000000070377	olfactory receptor 43	0.76
<i>Olf430</i>	ENSMUSG000000050134	olfactory receptor 430	0.73
<i>Olf466</i>	ENSMUSG000000049806	olfactory receptor 466	0.78
<i>Olf47</i>	ENSMUSG000000061210	olfactory receptor 47	0.83
<i>Olf573-ps1</i>	ENSMUSG000000052785	olfactory receptor 573, pseudogene 1	0.81
<i>Olf623</i>	ENSMUSG000000055124	olfactory receptor 623	0.65
<i>Olf659</i>	ENSMUSG000000073922	olfactory receptor 659	0.78
<i>Olf769</i>	ENSMUSG000000042801	olfactory receptor 769	0.83
<i>Olf951</i>	ENSMUSG000000060129	olfactory receptor 951	0.81
<i>P2ry12</i>	ENSMUSG000000036353	purinergic receptor P2Y, G-protein coupled 12	0.68
<i>Palld</i>	ENSMUSG000000058056	palladin, cytoskeletal associated protein	0.77
<i>Panx1</i>	ENSMUSG000000031934	pannexin 1	0.82
<i>Papd4</i>	ENSMUSG000000042167	PAP associated domain containing 4	0.80
<i>Parl</i>	ENSMUSG000000033918	presenilin associated, rhomboid-like	0.78
<i>Pclo</i>	ENSMUSG000000061601	piccolo (presynaptic cytomatrix protein)	0.63
<i>Pdp2</i>	ENSMUSG000000048371	pyruvate dehydrogenase phosphatase catalytic subunit 2	0.80
<i>Pfn4</i>	ENSMUSG000000020639	profilin family, member 4	0.68
<i>Pglyrp4</i>	ENSMUSG000000042250	peptidoglycan recognition protein 4	0.75
<i>Phka2</i>	ENSMUSG000000031295	phosphorylase kinase alpha 2	0.80
<i>Phospho2</i>	ENSMUSG000000027088	phosphatase, orphan 2	0.68
<i>Pik3c2b</i>	ENSMUSG000000026447	phosphoinositide-3-kinase, class 2, beta polypeptide	0.69
<i>Pim1</i>	ENSMUSG000000024014	proviral integration site 1	0.64
<i>Pkd111</i>	ENSMUSG000000046634	polycystic kidney disease 1 like 1	0.77
<i>Plkr</i>	ENSMUSG000000041237	pyruvate kinase liver and red blood cell	0.75
<i>Pla2g4e</i>	ENSMUSG000000050211	phospholipase A2, group IVE	0.80
<i>Pltp</i>	ENSMUSG000000017754	phospholipid transfer protein	0.68
<i>Plxnb3</i>	ENSMUSG000000031385	plexin B3	0.79
<i>Pole</i>	ENSMUSG000000007080	polymerase (DNA directed), epsilon	0.75
<i>Polr3e</i>	ENSMUSG000000030880	polymerase (RNA) III (DNA directed) polypeptide E	0.77

<i>Polr3g</i>	ENSMUSG00000035834	polymerase (RNA) III (DNA directed) polypeptide G	0.71
<i>Ppef2</i>	ENSMUSG00000029410	protein phosphatase, EF hand calcium-binding domain 2	0.81
<i>Ppp4r1</i>	ENSMUSG000000061950	protein phosphatase 4, regulatory subunit 1	0.80
<i>Pramef12</i>	ENSMUSG000000028591	PRAME family member 12	0.57
<i>Prc1</i>	ENSMUSG000000038943	protein regulator of cytokinesis 1	0.60
<i>Prkg1</i>	ENSMUSG000000052920	protein kinase, cGMP-dependent, type I	0.62
<i>Prl7d1</i>	ENSMUSG000000021348	prolactin family 7, subfamily d, member 1	0.73
<i>Prpf40b</i>	ENSMUSG000000023007	PRP40 pre-mRNA processing factor 40 homolog B (yeast)	0.73
<i>Prss58</i>	ENSMUSG000000051936	protease, serine 58	0.75
<i>Psg23</i>	ENSMUSG000000074359	pregnancy-specific glycoprotein 23	0.78
<i>Psmb5-ps</i>	ENSMUSG000000080992	proteasome (prosome, macropain) subunit, beta type 5, pseudogene	0.72
<i>Ptpn4</i>	ENSMUSG000000026384	protein tyrosine phosphatase, non-receptor type 4	0.73
<i>Pycr1</i>	ENSMUSG000000025140	pyrroline-5-carboxylate reductase 1	0.79
<i>Rab34</i>	ENSMUSG000000002059	RAB34, member of RAS oncogene family	0.78
<i>Rad52</i>	ENSMUSG000000030166	RAD52 homolog (S. cerevisiae)	0.49
<i>Rarb</i>	ENSMUSG000000017491	retinoic acid receptor, beta	0.77
<i>Rbm3</i>	ENSMUSG000000031167	RNA binding motif protein 3	0.65
<i>Rbms3</i>	ENSMUSG000000039607	RNA binding motif, single stranded interacting protein	0.74
<i>Rfc1</i>	ENSMUSG000000029191	replication factor C (activator 1) 1	0.73
<i>Rmi1</i>	ENSMUSG000000035367	RMI1, RecQ mediated genome instability 1, homolog (S. cerevisiae)	0.68
<i>Rnf17</i>	ENSMUSG000000000365	ring finger protein 17	0.68
<i>Rnmt</i>	ENSMUSG000000009535	RNA (guanine-7-) methyltransferase	0.78
<i>Rpa3</i>	ENSMUSG000000012483	replication protein A3	0.80
<i>Rps6ka4</i>	ENSMUSG000000024952	ribosomal protein S6 kinase, polypeptide 4	0.78
<i>Rsph10b2</i>	ENSMUSG000000075569	radial spoke head 10 homolog B (Chlamydomonas)	0.67
<i>Rtdr1</i>	ENSMUSG000000009070	rhabdoid tumor deletion region gene 1	0.65
<i>Rtf1</i>	ENSMUSG000000027304	Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)	0.73
<i>Ryr3</i>	ENSMUSG000000057378	ryanodine receptor 3	0.76
<i>Scel</i>	ENSMUSG000000022123	sciellin	0.72
<i>Scgb3a2</i>	ENSMUSG000000038791	secretoglobin, family 3A, member 2	0.79
<i>Scube1</i>	ENSMUSG000000016763	signal peptide, CUB domain, EGF-like 1	0.69
<i>Sectm1a</i>	ENSMUSG000000025165	secreted and transmembrane 1A	0.70
<i>Sephs1</i>	ENSMUSG000000026662	selenophosphate synthetase 1	0.82
<i>Serpina3m</i>	ENSMUSG000000079012	serine (or cysteine) peptidase inhibitor, clade A, member 3M	0.77
<i>Serpib1a</i>	ENSMUSG000000044734	serine (or cysteine) peptidase inhibitor, clade B, member 1a	0.77
<i>Serpib1b</i>	ENSMUSG000000051029	serine (or cysteine) peptidase inhibitor, clade B, member 1b	0.75
<i>Serpib3a</i>	ENSMUSG000000044594	serine (or cysteine) peptidase inhibitor, clade B (ovalbumin), member 3A	0.75
<i>Serpinf1</i>	ENSMUSG000000000753	serine (or cysteine) peptidase inhibitor, clade F, member 1	0.80
<i>Set</i>	ENSMUSG000000054766	SET nuclear oncogene	0.52
<i>Sfn</i>	ENSMUSG000000047281	stratifin	0.50
<i>Sh3rf1</i>	ENSMUSG000000031642	SH3 domain containing ring finger 1	0.79
<i>Slc20a1</i>	ENSMUSG000000027397	solute carrier family 20, member 1	0.79
<i>Slc36a3</i>	ENSMUSG000000049491	solute carrier family 36 (proton/amino acid symporter), member 3	0.79
<i>Slc4a11</i>	ENSMUSG000000074796	solute carrier family 4, sodium bicarbonate transporter-like, member 11	0.62
<i>Slc5a2</i>	ENSMUSG000000030781	solute carrier family 5 (sodium/glucose cotransporter), member 2	0.66
<i>Slc5a9</i>	ENSMUSG000000028544	solute carrier family 5 (sodium/glucose cotransporter), member 9	0.74
<i>Slc6a15</i>	ENSMUSG000000019894	solute carrier family 6 (neurotransmitter transporter), member 15	0.76
<i>Slc7a11</i>	ENSMUSG000000027737	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11	0.79
<i>Slit2</i>	ENSMUSG000000031558	slit homolog 2 (Drosophila)	0.72
<i>Smarca5</i>	ENSMUSG000000031715	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily 5	0.50
<i>Sox2</i>	ENSMUSG000000074637	SRY-box containing gene 2	0.74
<i>Spag11a</i>	ENSMUSG000000079842	sperm associated antigen 11A	0.83
<i>Spag16</i>	ENSMUSG000000053153	sperm associated antigen 16	0.73
<i>Spag6</i>	ENSMUSG000000022783	sperm associated antigen 6	0.62
<i>St8sia5</i>	ENSMUSG000000025425	ST8 alpha-N-acetyl-neuraminidase alpha-2,8-sialyltransferase 5	0.82
<i>Stac</i>	ENSMUSG000000032502	src homology three (SH3) and cysteine rich domain	0.76
<i>Stil</i>	ENSMUSG000000028718	ScI/Tal1 interrupting locus	0.77
<i>Stoml2</i>	ENSMUSG000000028455	stomatin (Epb7.2)-like 2	0.65
<i>Supv3l1</i>	ENSMUSG000000020079	suppressor of var1, 3-like 1 (S. cerevisiae)	0.81
<i>Susd3</i>	ENSMUSG000000021384	sushi domain containing 3	0.81
<i>Svs5</i>	ENSMUSG000000017004	seminal vesicle secretory protein 5	0.77
<i>Syt15</i>	ENSMUSG000000041479	synaptotagmin XV	0.74

<i>Tac1</i>	ENSMUSG00000061762	tachykinin 1	0.75
<i>Taok3</i>	ENSMUSG00000061288	TAO kinase 3	0.83
<i>Tcf7</i>	ENSMUSG00000000782	transcription factor 7, T-cell specific	0.83
<i>Tcfap2b</i>	ENSMUSG00000025927	transcription factor AP-2 beta	0.71
<i>Tdh</i>	ENSMUSG00000021953	L-threonine dehydrogenase	0.49
<i>Tex9</i>	ENSMUSG00000032219	testis expressed gene 9	0.51
<i>Tg</i>	ENSMUSG00000053469	thyroglobulin	0.77
<i>Tle6</i>	ENSMUSG00000034758	transducin-like enhancer of split 6, homolog of Drosophila E(spl)	0.73
<i>Tlr9</i>	ENSMUSG00000045322	toll-like receptor 9	0.78
<i>Tlx1</i>	ENSMUSG00000025215	T-cell leukemia, homeobox 1	0.80
<i>Tmed5</i>	ENSMUSG00000063406	transmembrane emp24 protein transport domain containing 5	0.81
<i>Tmem144</i>	ENSMUSG00000027956	transmembrane protein 144	0.83
<i>Tmem202</i>	ENSMUSG00000049526	transmembrane protein 202	0.74
<i>Tmem35</i>	ENSMUSG00000033578	transmembrane protein 35	0.74
<i>Tmprss15</i>	ENSMUSG00000022857	transmembrane protease, serine 15	0.71
<i>Tnc</i>	ENSMUSG00000028364	tenascin C	0.79
<i>Tnfrsf10b</i>	ENSMUSG00000022074	tumor necrosis factor receptor superfamily, member 10b	0.79
<i>Treh</i>	ENSMUSG00000032098	trehalase (brush-border membrane glycoprotein)	0.77
<i>Trim59</i>	ENSMUSG00000034317	tripartite motif-containing 59	0.42
<i>Tmau1ap</i>	ENSMUSG00000028898	tRNA selenocysteine 1 associated protein 1	0.82
<i>Troap</i>	ENSMUSG00000032783	trophinin associated protein	0.82
<i>Trpm7</i>	ENSMUSG00000027365	transient receptor potential cation channel, subfamily M, member 7	0.64
<i>Tspan18</i>	ENSMUSG00000023461	tetraspanin 18	0.75
<i>Tspan2</i>	ENSMUSG00000027858	tetraspanin 2	0.79
<i>Ttll6</i>	ENSMUSG00000038756	tubulin tyrosine ligase-like family, member 6	0.82
<i>Tuft1</i>	ENSMUSG00000005968	tuftelin 1	0.58
<i>U6</i>	ENSMUSG00000064615	U6 spliceosomal RNA	0.75
<i>U6</i>	ENSMUSG00000065696	U6 spliceosomal RNA	0.83
<i>Ugt8a</i>	ENSMUSG00000032854	UDP galactosyltransferase 8A	0.76
<i>Unc45a</i>	ENSMUSG00000030533	unc-45 homolog A (C. elegans)	0.75
<i>Usp1</i>	ENSMUSG00000028560	ubiquitin specific peptidase 1	0.62
<i>Vill</i>	ENSMUSG00000038775	villin-like	0.57
<i>Vmn1r32</i>	ENSMUSG00000062905	vomer nasal 1 receptor 32	0.70
<i>Vmn1r56</i>	ENSMUSG00000091874	vomer nasal 1 receptor 56	0.83
<i>Vmn2r110</i>	ENSMUSG00000091259	vomer nasal 2, receptor 110	0.82
<i>Vmn2r111</i>	ENSMUSG00000073445	vomer nasal 2, receptor 111	0.78
<i>Vmn2r12</i>	ENSMUSG00000090688	vomer nasal 2, receptor 12	0.70
<i>Vps54</i>	ENSMUSG00000020128	vacuolar protein sorting 54 (yeast)	0.74
<i>Wdr60</i>	ENSMUSG00000042050	WD repeat domain 60	0.82
<i>Wdyhv1</i>	ENSMUSG00000022359	WDYHV motif containing 1	0.82
<i>Wee2</i>	ENSMUSG00000037159	WEE1 homolog 2 (S. pombe)	0.52
<i>Wls</i>	ENSMUSG00000028173	wntless homolog (Drosophila)	0.76
<i>Wtap</i>	ENSMUSG00000060475	Wilms' tumour 1-associating protein	0.77
<i>Xaf1</i>	ENSMUSG00000040483	XIAP associated factor 1	0.73
<i>Ylpm1</i>	ENSMUSG00000021244	YLP motif containing 1	0.74
<i>Zcchc6</i>	ENSMUSG00000035248	zinc finger, CCHC domain containing 6	0.59
<i>Zfp114</i>	ENSMUSG00000068962	zinc finger protein 114	0.82
<i>Zfp259</i>	ENSMUSG00000032078	zinc finger protein 259	0.79
<i>Zfp46</i>	ENSMUSG00000051351	zinc finger protein 46	0.77
<i>Zfp616</i>	ENSMUSG00000069476	zinc finger protein 616	0.71
<i>Zfp760</i>	ENSMUSG00000067928	zinc finger protein 760	0.68
<i>Zfp82</i>	ENSMUSG00000058447	zinc finger protein 82	0.72
<i>Zfp945</i>	ENSMUSG00000059142	zinc finger protein 945	0.75
<i>Zfyve19</i>	ENSMUSG00000068580	zinc finger, FYVE domain containing 19	0.66
<i>Zpld1</i>	ENSMUSG00000064310	zona pellucida like domain containing 1	0.80
<i>Zwilch</i>	ENSMUSG00000032400	Zwilch, kinetochore associated, homolog (Drosophila)	0.78