

**Supplementary Table S1. The list of the total 408 DEGs in blood from mice between WT infection group and *Ant* infection group.**

Symbol	GeneID	log <sub>2</sub> Ratio ( <i>Ant</i> /WT)	Probability	Description	Gene express pattern in <i>Ant</i>
Snord35b	27212	9.86	0.92	small nucleolar RNA, C/D box 35B	UP
Mir19a	723891	8.57	0.83	microRNA 19a	UP
Fcer2a	14128	5.47	0.96	Fc receptor, IgE, low affinity II, alpha polypeptide	UP
Ace	11421	5.22	0.95	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	UP
Sycp2	320558	4.69	0.83	synaptonemal complex protein 2	UP
-	gi 87299631 ref NM_009987.3	4.03	0.86	Mus musculus chemokine (C-X3-C) receptor 1 (Cx3cr1), mRNA	UP
Cr2	12902	3.87	0.85	complement receptor 2	UP
Rufy4	435626	3.80	0.84	RUN and FYVE domain containing 4	UP
Clec7a	56644	3.40	0.89	C-type lectin domain family 7, member a	UP
Ccr6	12458	3.34	0.83	chemokine (C-C motif) receptor 6	UP
Snord89	100217461	2.90	0.82	small nucleolar RNA, C/D box 89	UP
Mcam	84004	2.86	0.80	melanoma cell adhesion molecule	UP
Prr5l	72446	2.68	0.83	proline rich 5 like	UP
H2-Ob	15002	2.61	0.85	histocompatibility 2, O region beta locus	UP
S1pr5	94226	2.48	0.80	sphingosine-1-phosphate receptor 5	UP
Gm4055	100042834	2.45	0.85	predicted gene 4055	UP
Nlrp12	378425	2.36	0.83	NLR family, pyrin domain containing 12	UP
Cyp4f18	72054	2.33	0.85	cytochrome P450, family 4, subfamily f, polypeptide 18	UP
Tppp3	67971	2.32	0.83	tubulin polymerization-promoting protein family member 3	UP
Cd5	12507	2.27	0.80	CD5 antigen	UP
Emr4	52614	2.09	0.83	EGF-like module containing, mucin-like, hormone receptor-like sequence 4	UP
Rgs2	19735	2.06	0.84	regulator of G-protein signaling 2	UP
Il1b	16176	1.97	0.86	interleukin 1 beta	UP
-	gi 147905968 ref NM_001085501.1	1.95	0.83	Mus musculus protein phosphatase 1, regulatory subunit 3D (Ppp1r3d), mRNA	UP
Kcna3	16491	1.94	0.82	potassium voltage-gated channel, shaker-related subfamily, member 3	UP
Bcl11a	14025	1.92	0.80	B cell CLL/lymphoma 11A (zinc finger protein)	UP
Pdgfa	18590	1.91	0.83	platelet derived growth factor, alpha	UP
Cd300lb	217304	1.90	0.83	CD300 antigen like family member B	UP
H2-Oa	15001	1.90	0.81	histocompatibility 2, O region alpha locus	UP
Ear2	13587	1.89	0.83	eosinophil-associated, ribonuclease A family, member 2	UP
Mtus1	102103	1.89	0.84	mitochondrial tumor suppressor 1	UP
Adam19	11492	1.88	0.84	a disintegrin and metallopeptidase domain 19 (meltrin beta)	UP
Cd300ld	217305	1.87	0.82	CD300 molecule-like family member d	UP
Steap4	117167	1.84	0.85	STEAP family member 4	UP
Bank1	242248	1.84	0.83	B cell scaffold protein with ankyrin repeats 1	UP
Sfxn5	94282	1.78	0.82	sideroflexin 5	UP
Cd3g	12502	1.73	0.81	CD3 antigen, gamma polypeptide	UP
Slc40a1	53945	1.72	0.83	solute carrier family 40 (iron-regulated transporter), member 1	UP
Ralgps2	78255	1.72	0.81	Ral GEF with PH domain and SH3 binding motif 2	UP
Ifitm1	68713	1.72	0.85	interferon induced transmembrane protein 1	UP

LOC100862462	100862462	1.71	0.80	uncharacterized LOC100862462	UP
Myadm	50918	1.69	0.85	myeloid-associated differentiation marker	UP
Pcp4l1	66425	1.68	0.85	Purkinje cell protein 4-like 1	UP
Mgam	232714	1.67	0.82	maltase-glucoamylase	UP
St8sia4	20452	1.66	0.80	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	UP
Csf3r	12986	1.66	0.85	colony stimulating factor 3 receptor (granulocyte)	UP
Tspan13	66109	1.64	0.82	tetraspanin 13	UP
Tnik	665113	1.61	0.81	TRAF2 and NCK interacting kinase	UP
Ggt1	14598	1.60	0.81	gamma-glutamyltransferase 1	UP
Pls1	102502	1.59	0.81	plastin 1 (I-isoform)	UP
Il13ra1	16164	1.58	0.83	interleukin 13 receptor, alpha 1	UP
H2-DMb2	15000	1.53	0.82	histocompatibility 2, class II, locus Mb2	UP
Cd19	12478	1.53	0.83	CD19 antigen	UP
Cxcr5	12145	1.52	0.81	chemokine (C-X-C motif) receptor 5	UP
Cd55	13136	1.52	0.81	CD55 antigen	UP
Ccp1	72278	1.51	0.83	cell cycle progression 1	UP
Rgs3	50780	1.49	0.80	regulator of G-protein signaling 3	UP
Pax5	18507	1.46	0.82	paired box gene 5	UP
Scd1	20249	1.45	0.81	stearoyl-Coenzyme A desaturase 1	UP
Ikzf3	22780	1.45	0.82	IKAROS family zinc finger 3	UP
Gmpr	66355	1.44	0.81	guanosine monophosphate reductase	UP
Faim3	69169	1.42	0.82	Fas apoptotic inhibitory molecule 3	UP
Ltb	16994	1.41	0.83	lymphotoxin B	UP
Chst3	53374	1.40	0.81	carbohydrate (chondroitin 6/keratan) sulfotransferase 3	UP
Rnase6	78416	1.40	0.81	ribonuclease, RNase A family, 6	UP
-	gi 124430499 ref [NM_001080971.1]	1.39	0.83	Mus musculus tubulin, beta 1 class VI (Tubb1), mRNA	UP
Pi16	74116	1.39	0.81	peptidase inhibitor 16	UP
Cxcr2	12765	1.38	0.83	chemokine (C-X-C motif) receptor 2	UP
Itgb7	16421	1.37	0.81	integrin beta 7	UP
Map4k2	26412	1.36	0.81	mitogen-activated protein kinase kinase kinase 2	UP
Mest	17294	1.33	0.82	mesoderm specific transcript	UP
Bicd2	76895	1.32	0.80	bicaudal D homolog 2 (Drosophila)	UP
Ms4a1	12482	1.32	0.82	membrane-spanning 4-domains, subfamily A, member 1	UP
LOC101055780	101055780	1.31	0.80	envelope glycoprotein-like	UP
5430417L22Rik	100043272	1.28	0.81	RIKEN cDNA 5430417L22 gene	UP
Slc6a4	15567	1.27	0.82	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4	UP
Prkar2b	19088	1.27	0.82	protein kinase, cAMP dependent regulatory, type II beta	UP
Retnlg	245195	1.27	0.82	resistin like gamma	UP
Cd22	12483	1.24	0.80	CD22 antigen	UP
Lyz1	17110	1.23	0.81	lysozyme 1	UP
Cd79a	12518	1.22	0.81	CD79A antigen (immunoglobulin-associated alpha)	UP
Rara	19401	1.21	0.80	retinoic acid receptor, alpha	UP
Lyz2	17105	1.19	0.81	lysozyme 2	UP
Parvb	170736	1.19	0.81	parvin, beta	UP
Ormdl3	66612	1.19	0.81	ORM1-like 3 (S. cerevisiae)	UP
-	gi 142369301 ref [NM_008148.3]	1.18	0.81	Mus musculus glycoprotein 5 (platelet) (Gp5), mRNA	UP

Cd226	225825	1.16	0.80	CD226 antigen	UP
Gm20594	100463512	1.11	0.80	predicted gene, 20594	UP
Lgals3bp	19039	-1.16	0.80	lectin, galactoside-binding, soluble, 3 binding protein	DOWN
Lgals1	16852	-1.16	0.80	lectin, galactose binding, soluble 1	DOWN
Ngp	18054	-1.20	0.82	neutrophilic granule protein	DOWN
Rrbp1	81910	-1.21	0.80	ribosome binding protein 1	DOWN
Prdx1	18477	-1.21	0.80	peroxiredoxin 1	DOWN
Ctsb	13030	-1.23	0.82	cathepsin B	DOWN
Psmc1	19179	-1.24	0.80	protease (prosome, macropain) 26S subunit, ATPase 1	DOWN
Clec4a1	269799	-1.25	0.81	C-type lectin domain family 4, member a1	DOWN
Ier3	15937	-1.25	0.80	immediate early response 3	DOWN
Ehd1	13660	-1.25	0.81	EH-domain containing 1	DOWN
Stfa3	20863	-1.26	0.81	stefin A3	DOWN
Npm1	18148	-1.27	0.80	nucleophosmin 1	DOWN
Hnrnpab	15384	-1.27	0.81	heterogeneous nuclear ribonucleoprotein A/B	DOWN
Ncl	17975	-1.28	0.80	nucleolin	DOWN
-	gi 6753323 ref NM_009838.1	-1.28	0.81	Mus musculus chaperonin containing Tcp1, subunit 6a (zeta) (Cct6a), mRNA	DOWN
P4hb	18453	-1.29	0.82	prolyl 4-hydroxylase, beta polypeptide	DOWN
AW112010	107350	-1.29	0.81	expressed sequence AW112010	DOWN
Rnh1	107702	-1.30	0.82	ribonuclease/angiogenin inhibitor 1	DOWN
Marcks11	17357	-1.30	0.82	MARCKS-like 1	DOWN
Hspa9	15526	-1.31	0.80	heat shock protein 9	DOWN
Grn	14824	-1.31	0.82	granulin	DOWN
AA467197	433470	-1.32	0.82	expressed sequence AA467197	DOWN
Psmc1	70247	-1.33	0.80	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1	DOWN
Bst2	69550	-1.34	0.82	bone marrow stromal cell antigen 2	DOWN
Creld2	76737	-1.35	0.80	cysteine-rich with EGF-like domains 2	DOWN
Pfkfb3	170768	-1.35	0.81	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	DOWN
Psmc3	22123	-1.36	0.81	proteasome (prosome, macropain) 26S subunit, non-ATPase, 3	DOWN
Psmc4	26441	-1.36	0.82	proteasome (prosome, macropain) subunit, alpha type 4	DOWN
Il1r2	16178	-1.36	0.82	interleukin 1 receptor, type II	DOWN
Nfkb1a	18035	-1.36	0.82	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha	DOWN
Pycard	66824	-1.37	0.81	PYD and CARD domain containing	DOWN
Pa2g4	18813	-1.39	0.81	proliferation-associated 2G4	DOWN
Ppp1r14b	18938	-1.39	0.80	protein phosphatase 1, regulatory (inhibitor) subunit 14B	DOWN
Hspa5	14828	-1.39	0.83	heat shock protein 5	DOWN
Eif4a1	13681	-1.39	0.83	eukaryotic translation initiation factor 4A1	DOWN
Gzmb	14939	-1.39	0.82	granzyme B	DOWN
Psmc6	26443	-1.39	0.82	proteasome (prosome, macropain) subunit, alpha type 6	DOWN
Emr1	13733	-1.41	0.82	EGF-like module containing, mucin-like, hormone receptor-like sequence 1	DOWN
Slc15a3	65221	-1.41	0.83	solute carrier family 15, member 3	DOWN
Psmc6	19175	-1.42	0.82	proteasome (prosome, macropain) subunit, beta type 6	DOWN
Bhlhe40	20893	-1.42	0.81	basic helix-loop-helix family, member e40	DOWN
Herpud1	64209	-1.43	0.83	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1	DOWN
Tgm2	21817	-1.43	0.82	transglutaminase 2, C polypeptide	DOWN

Pgam1	18648	-1.43	0.83	phosphoglycerate mutase 1	DOWN
Ntng2	171171	-1.43	0.82	netrin G2	DOWN
Zc3h12a	230738	-1.43	0.81	zinc finger CCCH type containing 12A	DOWN
Ggt1	14594	-1.44	0.82	glycoprotein galactosyltransferase alpha 1, 3	DOWN
Fam20c	80752	-1.44	0.80	family with sequence similarity 20, member C	DOWN
Oasl1	231655	-1.44	0.82	2'-5' oligoadenylate synthetase-like 1	DOWN
Rgl1	19731	-1.44	0.81	ral guanine nucleotide dissociation stimulator,-like 1	DOWN
Cyth3	19159	-1.44	0.80	cytohesin 3	DOWN
Atp2a2	11938	-1.45	0.82	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	DOWN
Rilpl2	80291	-1.45	0.80	Rab interacting lysosomal protein-like 2	DOWN
Irak3	73914	-1.45	0.83	interleukin-1 receptor-associated kinase 3	DOWN
Nop58	55989	-1.45	0.80	NOP58 ribonucleoprotein	DOWN
Gadd45b	17873	-1.46	0.82	growth arrest and DNA-damage-inducible 45 beta	DOWN
Bri3	55950	-1.46	0.82	brain protein I3	DOWN
C1qbp	12261	-1.46	0.81	complement component 1, q subcomponent binding protein	DOWN
Csf1	12977	-1.47	0.81	colony stimulating factor 1 (macrophage)	DOWN
Ranbp1	19385	-1.47	0.83	RAN binding protein 1	DOWN
Acp5	11433	-1.48	0.83	acid phosphatase 5, tartrate resistant	DOWN
Acp2	11432	-1.48	0.81	acid phosphatase 2, lysosomal	DOWN
Gde1	56209	-1.48	0.81	glycerophosphodiester phosphodiesterase 1	DOWN
Irg1	16365	-1.49	0.83	immunoresponsive gene 1	DOWN
Slc31a2	20530	-1.50	0.82	solute carrier family 31, member 2	DOWN
Id2	15902	-1.50	0.84	inhibitor of DNA binding 2	DOWN
Mcm3	17215	-1.50	0.80	minichromosome maintenance deficient 3 (S. cerevisiae)	DOWN
Rasa4	54153	-1.50	0.80	RAS p21 protein activator 4	DOWN
Cpne2	234577	-1.51	0.83	copine II	DOWN
Ikake	56489	-1.51	0.83	inhibitor of kappaB kinase epsilon	DOWN
Manf	74840	-1.52	0.82	mesencephalic astrocyte-derived neurotrophic factor	DOWN
Gns	75612	-1.52	0.83	glucosamine (N-acetyl)-6-sulfatase	DOWN
Slc39a4	72027	-1.52	0.82	solute carrier family 39 (zinc transporter), member 4	DOWN
Txnrd1	50493	-1.52	0.82	thioredoxin reductase 1	DOWN
Ms4a4a	666907	-1.53	0.83	membrane-spanning 4-domains, subfamily A, member 4A	DOWN
Mki67	17345	-1.53	0.81	antigen identified by monoclonal antibody Ki 67	DOWN
Lrrc59	98238	-1.53	0.82	leucine rich repeat containing 59	DOWN
Asprv1	67855	-1.56	0.84	aspartic peptidase, retroviral-like 1	DOWN
Ms4a6d	68774	-1.57	0.84	membrane-spanning 4-domains, subfamily A, member 6D	DOWN
Niacr1	80885	-1.58	0.83	niacin receptor 1	DOWN
Ccr5	12774	-1.58	0.83	chemokine (C-C motif) receptor 5	DOWN
Pltp	18830	-1.59	0.82	phospholipid transfer protein	DOWN
P2rx4	18438	-1.59	0.82	purinergic receptor P2X, ligand-gated ion channel 4	DOWN
Ccl5	20304	-1.60	0.85	chemokine (C-C motif) ligand 5	DOWN
Cd38	12494	-1.61	0.84	CD38 antigen	DOWN
Anxa4	11746	-1.62	0.83	annexin A4	DOWN
Renbp	19703	-1.62	0.81	renin binding protein	DOWN
Nr1h3	22259	-1.62	0.82	nuclear receptor subfamily 1, group H, member 3	DOWN
Chi3l3	12655	-1.64	0.85	chitinase 3-like 3	DOWN

P2ry2	18442	-1.64	0.81	purinergic receptor P2Y, G-protein coupled 2	DOWN
Mafb	16658	-1.65	0.81	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	DOWN
Tuba1b	22143	-1.65	0.81	tubulin, alpha 1B	DOWN
Cndp2	66054	-1.66	0.84	CNDP dipeptidase 2 (metallopeptidase M20 family)	DOWN
Ets2	23872	-1.66	0.83	E26 avian leukemia oncogene 2, 3' domain	DOWN
Ppa1	67895	-1.66	0.81	pyrophosphatase (inorganic) 1	DOWN
Sdc3	20970	-1.67	0.84	syndecan 3	DOWN
Vat1	26949	-1.68	0.81	vesicle amine transport protein 1 homolog (T californica)	DOWN
Bnip3	12176	-1.68	0.81	BCL2/adenovirus E1B interacting protein 3	DOWN
Dnase2a	13423	-1.69	0.81	deoxyribonuclease II alpha	DOWN
Dusp5	240672	-1.70	0.82	dual specificity phosphatase 5	DOWN
-	gi 227499243 ref [NM_010220.3]	-1.70	0.84	Mus musculus FK506 binding protein 5 (Fkbp5), mRNA	DOWN
Apoc2	11813	-1.71	0.82	apolipoprotein C-II	DOWN
Hat1	107435	-1.72	0.80	histone aminotransferase 1	DOWN
Lacc1	210808	-1.72	0.83	laccase (multicopper oxidoreductase) domain containing 1	DOWN
Timm17a	21854	-1.73	0.81	translocase of inner mitochondrial membrane 17a	DOWN
Slc7a8	50934	-1.73	0.81	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8	DOWN
Cstb	13014	-1.76	0.85	cystatin B	DOWN
Ifi204	15951	-1.77	0.84	interferon activated gene 204	DOWN
Ms4a8a	64381	-1.78	0.82	membrane-spanning 4-domains, subfamily A, member 8A	DOWN
G0s2	14373	-1.78	0.84	G0/G1 switch gene 2	DOWN
Tnf	21926	-1.78	0.84	tumor necrosis factor	DOWN
-	gi 31981636 ref NM_010738.2]	-1.80	0.85	Mus musculus lymphocyte antigen 6 complex, locus A (Ly6a), mRNA	DOWN
Slamf7	75345	-1.80	0.83	SLAM family member 7	DOWN
Srm	20810	-1.81	0.82	spermidine synthase	DOWN
Il1rn	16181	-1.81	0.85	interleukin 1 receptor antagonist	DOWN
Cfb	14962	-1.82	0.86	complement factor B	DOWN
Fnip2	329679	-1.84	0.83	folliculin interacting protein 2	DOWN
Rapgef2	76089	-1.85	0.82	Rap guanine nucleotide exchange factor (GEF) 2	DOWN
Lgmn	19141	-1.87	0.86	legumain	DOWN
Mfsd7a	243197	-1.87	0.81	major facilitator superfamily domain containing 7A	DOWN
Cks1b	54124	-1.88	0.80	CDC28 protein kinase 1b	DOWN
Mx1	17857	-1.90	0.82	myxovirus (influenza virus) resistance 1	DOWN
Hmox1	15368	-1.90	0.86	heme oxygenase (decycling) 1	DOWN
Rab20	19332	-1.90	0.84	RAB20, member RAS oncogene family	DOWN
Mrpl45	67036	-1.91	0.82	mitochondrial ribosomal protein L45	DOWN
Cd14	12475	-1.91	0.86	CD14 antigen	DOWN
Top2a	21973	-1.92	0.82	topoisomerase (DNA) II alpha	DOWN
Bcl2a1b	12045	-1.93	0.84	B cell leukemia/lymphoma 2 related protein A1b	DOWN
Batf	53314	-1.95	0.85	basic leucine zipper transcription factor, ATF-like	DOWN
Tmem8	60455	-1.97	0.82	transmembrane protein 8 (five membrane-spanning domains)	DOWN
Dtx2	74198	-1.98	0.84	deltex 2 homolog (Drosophila)	DOWN
Cdkn1a	12575	-1.99	0.83	cyclin-dependent kinase inhibitor 1A (P21)	DOWN
F10	14058	-1.99	0.86	coagulation factor X	DOWN

Uap1l1	227620	-2.00	0.83	UDP-N-acteylglucosamine pyrophosphorylase 1-like 1	DOWN
Phlda1	21664	-2.01	0.81	pleckstrin homology-like domain, family A, member 1	DOWN
Snhg3	399101	-2.01	0.83	small nucleolar RNA host gene (non-protein coding) 3	DOWN
Sdc4	20971	-2.02	0.84	syndecan 4	DOWN
Sod2	20656	-2.02	0.86	superoxide dismutase 2, mitochondrial	DOWN
Fscn1	14086	-2.02	0.83	fascin homolog 1, actin bundling protein (Strongylocentrotus purpuratus)	DOWN
Sh2b2	23921	-2.05	0.82	SH2B adaptor protein 2	DOWN
Ralgds	19730	-2.06	0.83	ral guanine nucleotide dissociation stimulator	DOWN
Gla	11605	-2.08	0.80	galactosidase, alpha	DOWN
Tmem176a	66058	-2.08	0.82	transmembrane protein 176A	DOWN
AI607873	226691	-2.11	0.86	expressed sequence AI607873	DOWN
H1f0	14958	-2.11	0.83	H1 histone family, member 0	DOWN
Maf	17132	-2.11	0.85	avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog	DOWN
Fcgr1	14129	-2.12	0.85	Fc receptor, IgG, high affinity I	DOWN
Msr1	20288	-2.13	0.86	macrophage scavenger receptor 1	DOWN
Batf2	74481	-2.14	0.83	basic leucine zipper transcription factor, ATF-like 2	DOWN
Atf3	11910	-2.15	0.82	activating transcription factor 3	DOWN
Nt5dc2	70021	-2.15	0.83	5'-nucleotidase domain containing 2	DOWN
Cd63	12512	-2.17	0.85	CD63 antigen	DOWN
Htra4	330723	-2.18	0.81	HtrA serine peptidase 4	DOWN
Tnfaip3	21929	-2.18	0.86	tumor necrosis factor, alpha-induced protein 3	DOWN
Car13	71934	-2.19	0.81	carbonic anhydrase 13	DOWN
Insig1	231070	-2.19	0.84	insulin induced gene 1	DOWN
-	gi 51036620 ref NM_033524.2	-2.20	0.82	Mus musculus sprouty protein with EVH-1 domain 1, related sequence (Spred1), mRNA	DOWN
Jdp2	81703	-2.20	0.86	Jun dimerization protein 2	DOWN
5430435G2	226421	-2.22	0.83	RIKEN cDNA 5430435G22 gene	DOWN
2Rik					
Ccl9	20308	-2.23	0.85	chemokine (C-C motif) ligand 9	DOWN
Adap2	216991	-2.23	0.83	ArfGAP with dual PH domains 2	DOWN
Gpr31b	436440	-2.24	0.86	G protein-coupled receptor 31, D17Leh66b region	DOWN
Rgcc	66214	-2.28	0.82	regulator of cell cycle	DOWN
Rrm2	20135	-2.29	0.83	ribonucleotide reductase M2	DOWN
C3ar1	12267	-2.30	0.82	complement component 3a receptor 1	DOWN
Spic	20728	-2.30	0.84	Spi-C transcription factor (Spi-1/PU.1 related)	DOWN
Mertk	17289	-2.32	0.83	c-mer proto-oncogene tyrosine kinase	DOWN
Cxcl16	66102	-2.34	0.82	chemokine (C-X-C motif) ligand 16	DOWN
F7	14068	-2.36	0.82	coagulation factor VII	DOWN
Itga9	104099	-2.36	0.82	integrin alpha 9	DOWN
Plin2	11520	-2.36	0.87	perilipin 2	DOWN
Mreg	381269	-2.37	0.84	melanoregulin	DOWN
Fmn12	71409	-2.39	0.82	formin-like 2	DOWN
Siglec1	20612	-2.41	0.82	sialic acid binding Ig-like lectin 1, sialoadhesin	DOWN
Orm1	18405	-2.45	0.85	orosomuroid 1	DOWN
Ccrl2	54199	-2.47	0.86	chemokine (C-C motif) receptor-like 2	DOWN
Mmp14	17387	-2.50	0.87	matrix metalloproteinase 14 (membrane-inserted)	DOWN
-	gi 222418555 ref NM_153060.2	-2.51	0.85	Mus musculus spinster homolog 2 (Spns2), mRNA	DOWN

Spp1	20750	-2.51	0.85	secreted phosphoprotein 1	DOWN
Met	17295	-2.53	0.81	met proto-oncogene	DOWN
C1qb	12260	-2.55	0.87	complement component 1, q subcomponent, beta polypeptide	DOWN
Prtn3	19152	-2.55	0.84	proteinase 3	DOWN
Ctnbp2nl	80281	-2.60	0.80	CTTNBP2 N-terminal like	DOWN
Saa3	20210	-2.63	0.88	serum amyloid A 3	DOWN
Cxcl10	15945	-2.73	0.86	chemokine (C-X-C motif) ligand 10	DOWN
Serpina3f	238393	-2.75	0.86	serine (or cysteine) peptidase inhibitor, clade A, member 3F	DOWN
Slc7a11	26570	-2.76	0.81	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11	DOWN
Krt19	16669	-2.79	0.80	keratin 19	DOWN
C1qc	12262	-2.79	0.87	complement component 1, q subcomponent, C chain	DOWN
Plk2	20620	-2.79	0.85	polo-like kinase 2	DOWN
Ctsl	13039	-2.79	0.88	cathepsin L	DOWN
Prss8	76560	-2.84	0.86	protease, serine, 8 (prostasin)	DOWN
Il1a	16175	-2.85	0.82	interleukin 1 alpha	DOWN
Anpep	16790	-2.89	0.85	alanyl (membrane) aminopeptidase	DOWN
Marco	17167	-2.91	0.89	macrophage receptor with collagenous structure	DOWN
Cldn1	12737	-2.91	0.86	claudin 1	DOWN
Ccl4	20303	-2.92	0.88	chemokine (C-C motif) ligand 4	DOWN
C1qa	12259	-2.98	0.87	complement component 1, q subcomponent, alpha polypeptide	DOWN
Ppl	19041	-3.00	0.82	periplakin	DOWN
Prss32	69814	-3.02	0.83	protease, serine, 32	DOWN
Pigr	18703	-3.05	0.81	polymeric immunoglobulin receptor	DOWN
2310007B03Rik	71874	-3.05	0.86	RIKEN cDNA 2310007B03 gene	DOWN
Epha2	13836	-3.07	0.81	Eph receptor A2	DOWN
Timp1	21857	-3.08	0.81	tissue inhibitor of metalloproteinase 1	DOWN
Slc5a1	20537	-3.08	0.85	solute carrier family 5 (sodium/glucose cotransporter), member 1	DOWN
Muc20	224116	-3.10	0.85	mucin 20	DOWN
Htra1	56213	-3.10	0.86	HtrA serine peptidase 1	DOWN
Cxcl2	20310	-3.14	0.88	chemokine (C-X-C motif) ligand 2	DOWN
Nrp2	18187	-3.15	0.85	neuropilin 2	DOWN
Dab2	13132	-3.16	0.88	disabled 2, mitogen-responsive phosphoprotein	DOWN
Mrc1	17533	-3.17	0.82	mannose receptor, C type 1	DOWN
Emp1	13730	-3.19	0.89	epithelial membrane protein 1	DOWN
Ptges	64292	-3.22	0.88	prostaglandin E synthase	DOWN
Serpina3h	546546	-3.23	0.84	serine (or cysteine) peptidase inhibitor, clade A, member 3H	DOWN
Muc1	17829	-3.23	0.88	mucin 1, transmembrane	DOWN
Fam84a	105005	-3.25	0.85	family with sequence similarity 84, member A	DOWN
Rgs1	50778	-3.25	0.81	regulator of G-protein signaling 1	DOWN
Chac1	69065	-3.28	0.86	ChaC, cation transport regulator 1	DOWN
Clca4	229927	-3.30	0.88	chloride channel calcium activated 4	DOWN
Uaca	72565	-3.30	0.81	uveal autoantigen with coiled-coil domains and ankyrin repeats	DOWN
Aif1l	108897	-3.31	0.84	allograft inflammatory factor 1-like	DOWN
Serpina3g	20715	-3.33	0.90	serine (or cysteine) peptidase inhibitor, clade A, member 3G	DOWN
Cbr2	12409	-3.33	0.85	carbonyl reductase 2	DOWN
Ccl3	20302	-3.34	0.90	chemokine (C-C motif) ligand 3	DOWN
Krt13	16663	-3.35	0.89	keratin 13	DOWN

Tspan1	66805	-3.36	0.86	tetraspanin 1	DOWN
Epn3	71889	-3.37	0.87	epsin 3	DOWN
Gm7897	666028	-3.37	0.84	predicted gene 7897	DOWN
Krt23	94179	-3.42	0.86	keratin 23	DOWN
Hilpda	69573	-3.43	0.87	hypoxia inducible lipid droplet associated	DOWN
Gsto1	14873	-3.44	0.90	glutathione S-transferase omega 1	DOWN
Edn1	13614	-3.45	0.87	endothelin 1	DOWN
Mal	17153	-3.46	0.89	myelin and lymphocyte protein, T cell differentiation protein	DOWN
Alpl	11647	-3.47	0.89	alkaline phosphatase, liver/bone/kidney	DOWN
Mt1	17748	-3.47	0.90	metallothionein 1	DOWN
Slc1a1	20510	-3.47	0.83	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1	DOWN
Gm15056	100504014	-3.48	0.90	predicted gene 15056	DOWN
Slurp1	57277	-3.49	0.85	secreted Ly6/Plaur domain containing 1	DOWN
Ear11	93726	-3.51	0.85	eosinophil-associated, ribonuclease A family, member 11	DOWN
Krt7	110310	-3.54	0.90	keratin 7	DOWN
Calml3	70405	-3.55	0.90	calmodulin-like 3	DOWN
Tmprss11g	320454	-3.57	0.85	transmembrane protease, serine 11g	DOWN
Upk1b	22268	-3.58	0.88	uroplakin 1B	DOWN
Eps8l2	98845	-3.59	0.87	EPS8-like 2	DOWN
Prss27	213171	-3.59	0.91	protease, serine, 27	DOWN
Csta	209294	-3.61	0.85	cystatin A	DOWN
Enpp3	209558	-3.61	0.82	ectonucleotide pyrophosphatase/phosphodiesterase 3	DOWN
Scel	64929	-3.62	0.82	sciellin	DOWN
Nccrp1	233038	-3.63	0.90	non-specific cytotoxic cell receptor protein 1 homolog (zebrafish)	DOWN
Muc4	140474	-3.64	0.90	mucin 4	DOWN
Ankk1	244859	-3.67	0.83	ankyrin repeat and kinase domain containing 1	DOWN
Elf3	13710	-3.68	0.90	E74-like factor 3	DOWN
Mpo	17523	-3.68	0.88	myeloperoxidase	DOWN
Rnf39	386454	-3.68	0.84	ring finger protein 39	DOWN
Gm6289	622139	-3.71	0.89	predicted gene 6289	DOWN
Gm9573	672682	-3.71	0.91	predicted gene 9573	DOWN
Psca	72373	-3.71	0.91	prostate stem cell antigen	DOWN
Ctsk	13038	-3.71	0.89	cathepsin K	DOWN
Gpr110	77596	-3.76	0.87	G protein-coupled receptor 110	DOWN
Frk	14302	-3.77	0.81	fyn-related kinase	DOWN
Krt6a	16687	-3.78	0.88	keratin 6A	DOWN
2310002J15 Rik	67859	-3.79	0.85	RIKEN cDNA 2310002J15 gene	DOWN
Ccl2	20296	-3.81	0.91	chemokine (C-C motif) ligand 2	DOWN
Slc13a3	114644	-3.82	0.91	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	DOWN
1600029D21 Rik	76509	-3.82	0.92	RIKEN cDNA 1600029D21 gene	DOWN
AI661453	224833	-3.82	0.90	expressed sequence AI661453	DOWN
Krt6b	16688	-3.83	0.89	keratin 6B	DOWN
Il10	16153	-3.84	0.90	interleukin 10	DOWN
Perp	64058	-3.86	0.85	PERP, TP53 apoptosis effector	DOWN
S100a14	66166	-3.89	0.88	S100 calcium binding protein A14	DOWN
Lypd2	68311	-3.91	0.91	Ly6/Plaur domain containing 2	DOWN
Slc28a3	114304	-3.92	0.87	solute carrier family 28 (sodium-coupled nucleoside transporter), member 3	DOWN
Gpnmb	93695	-3.96	0.88	glycoprotein (transmembrane) nmb	DOWN
Slc6a14	56774	-3.97	0.91	solute carrier family 6 (neurotransmitter transporter), member 14	DOWN



Krt4	16682	-4.00	0.87	keratin 4	DOWN
Rhpn2	52428	-4.01	0.85	rhophilin, Rho GTPase binding protein 2	DOWN
Defb14	244332	-4.05	0.83	defensin beta 14	DOWN
Ptx3	19288	-4.07	0.86	pentraxin related gene	DOWN
Gsta4	14860	-4.08	0.92	glutathione S-transferase, alpha 4	DOWN
Vnn1	22361	-4.08	0.82	vanin 1	DOWN
Asb11	68854	-4.09	0.84	ankyrin repeat and SOCS box-containing 11	DOWN
Prss22	70835	-4.09	0.92	protease, serine, 22	DOWN
Elane	50701	-4.10	0.88	elastase, neutrophil expressed	DOWN
Slc16a11	216867	-4.12	0.82	solute carrier family 16 (monocarboxylic acid transporters), member 11	DOWN
Defb1	13214	-4.13	0.85	defensin beta 1	DOWN
Cnfn	72383	-4.14	0.90	cornifelin	DOWN
Upk3bl	69665	-4.15	0.92	uroplakin 3B-like	DOWN
Plekhs1	226245	-4.22	0.92	pleckstrin homology domain containing, family S member 1	DOWN
Ccl7	20306	-4.34	0.92	chemokine (C-C motif) ligand 7	DOWN
BC018473	193217	-4.39	0.88	cDNA sequence BC018473	DOWN
Arg1	11846	-4.47	0.91	arginase, liver	DOWN
Pcolce	18542	-4.60	0.85	procollagen C-endopeptidase enhancer protein	DOWN
Mt2	17750	-4.67	0.94	metallothionein 2	DOWN
Plat	18791	-4.72	0.93	plasminogen activator, tissue	DOWN
Rpl26	19941	-4.77	0.85	ribosomal protein L26	DOWN
Slc25a48	328258	-4.78	0.87	solute carrier family 25, member 48	DOWN
Slc13a2	20500	-4.86	0.80	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2	DOWN
Clca6	99663	-4.97	0.86	chloride channel calcium activated 6	DOWN
Cxcl13	55985	-4.98	0.94	chemokine (C-X-C motif) ligand 13	DOWN
Aldh3a1	11670	-4.98	0.92	aldehyde dehydrogenase family 3, subfamily A1	DOWN
Cidea	12683	-5.39	0.84	cell death-inducing DNA fragmentation factor, alpha subunit-like effector A	DOWN
Aqp5	11830	-5.40	0.94	aquaporin 5	DOWN
Cldn7	53624	-5.41	0.83	claudin 7	DOWN
Fam46b	100342	-5.51	0.86	family with sequence similarity 46, member B	DOWN
Csf3	12985	-5.55	0.86	colony stimulating factor 3 (granulocyte)	DOWN
Krt12	268482	-5.60	0.97	keratin 12	DOWN
Ccnb1	268697	-5.68	0.81	cyclin B1	DOWN
Mal2	105853	-5.89	0.88	mal, T cell differentiation protein 2	DOWN
Serpinb11	66957	-6.22	0.88	serine (or cysteine) peptidase inhibitor, clade B (ovalbumin), member 11	DOWN
AI747448	99709	-6.36	0.85	expressed sequence AI747448	DOWN
Krt5	110308	-7.42	0.96	keratin 5	DOWN
Snord14c	108637	-8.38	0.81	small nucleolar RNA, C/D box 14C	DOWN
Snord14d	100302593	-8.38	0.81	small nucleolar RNA, C/D box 14D	DOWN
Cxcl1	14825	-8.61	0.83	chemokine (C-X-C motif) ligand 1	DOWN
Klk11	56538	-8.88	0.85	kallikrein related-peptidase 11	DOWN
Snord32a	27209	-9.07	0.87	small nucleolar RNA, C/D box 32A	DOWN
2610528A11Rik	70045	-9.35	0.89	RIKEN cDNA 2610528A11 gene	DOWN
LOC100046297	100046297	-9.72	0.92	40S ribosomal protein S26-like	DOWN
Snord96a	100216534	-9.88	0.92	small nucleolar RNA, C/D box 96A	DOWN
Cxcl3	330122	-10.25	0.94	chemokine (C-X-C motif) ligand 3	DOWN