

Figure S3A Host response to each *Lactobacillus* mono-association (3d)

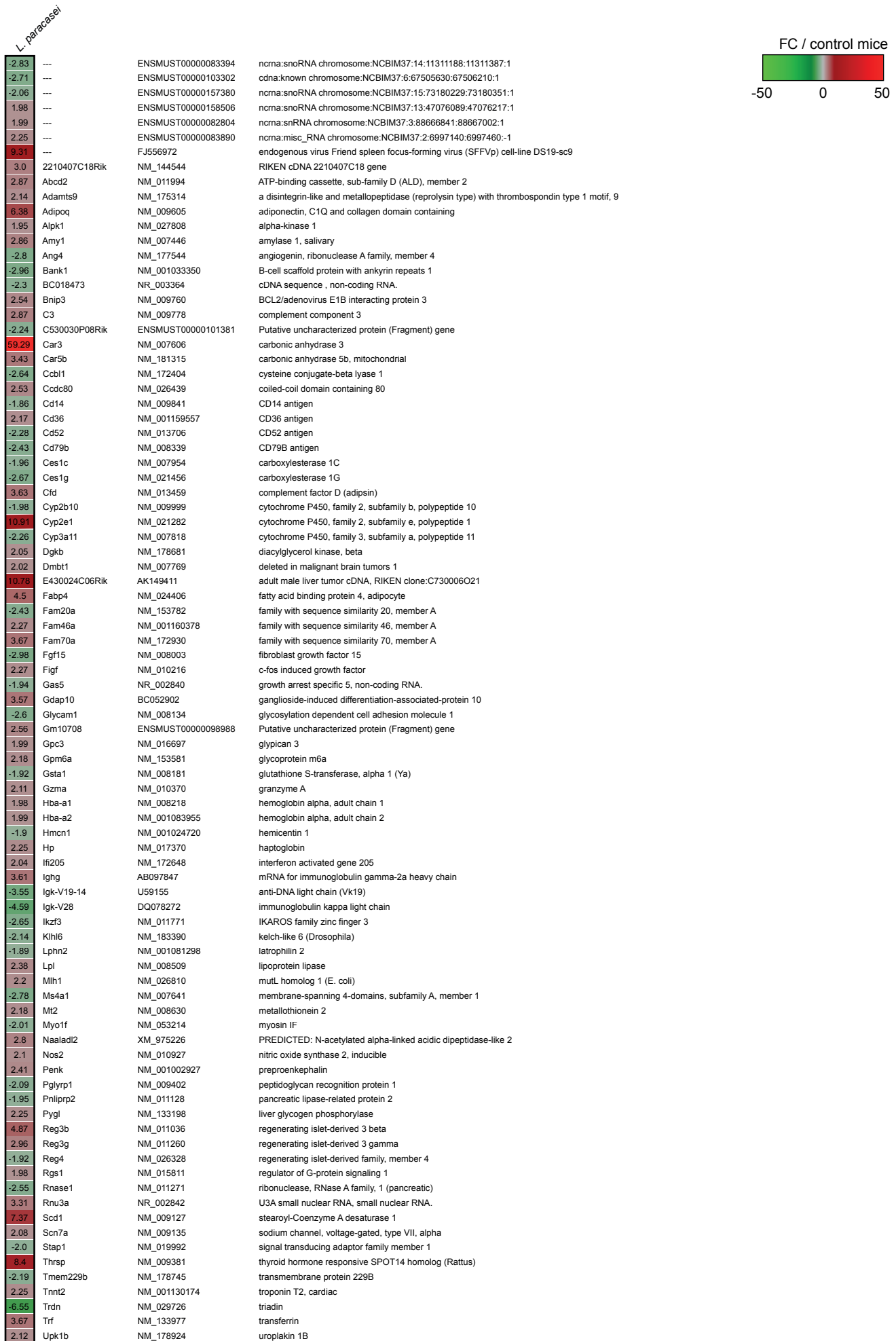


Figure S3A -Host response to each *Lactobacillus* mono-association (3d)

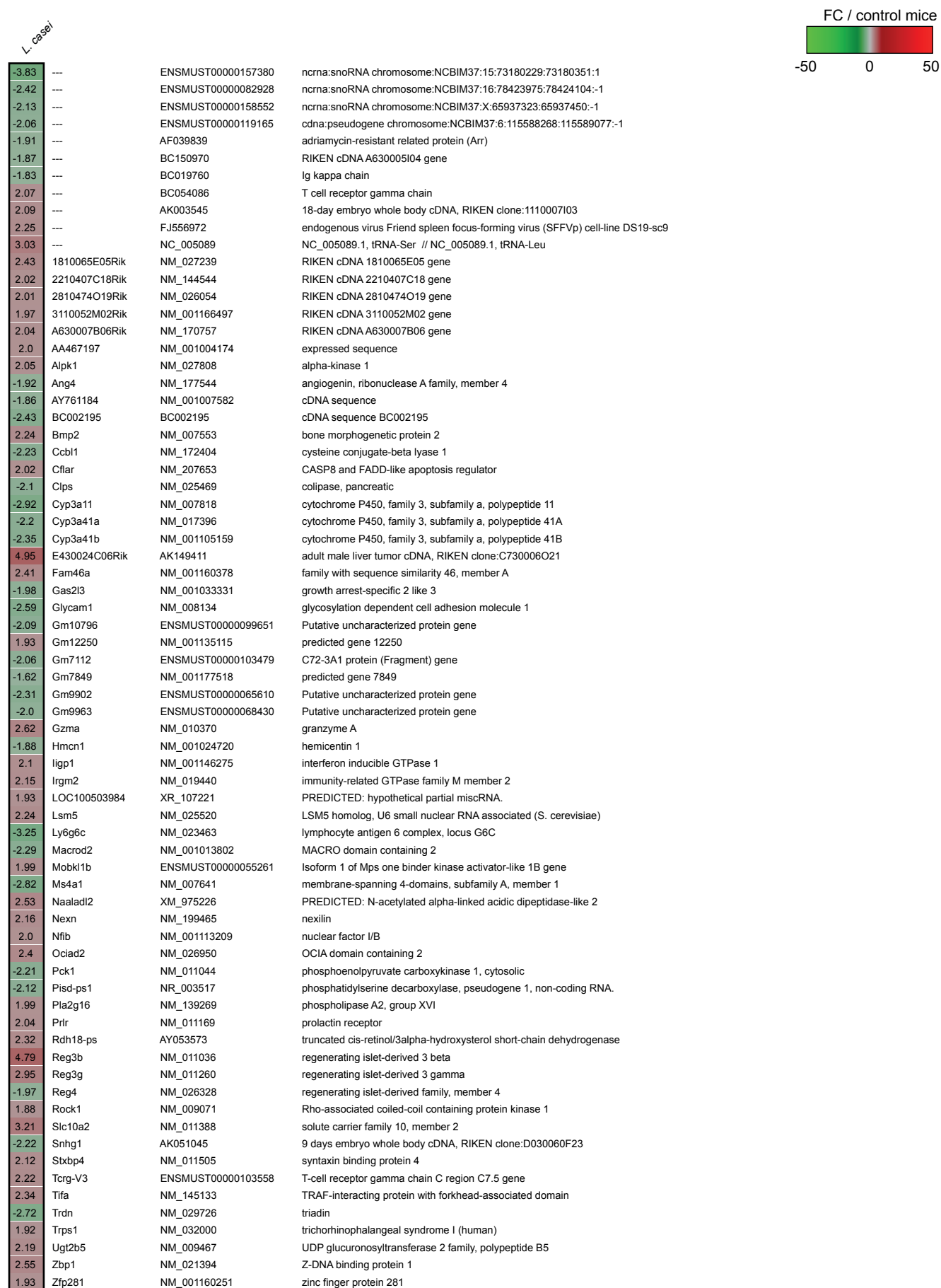
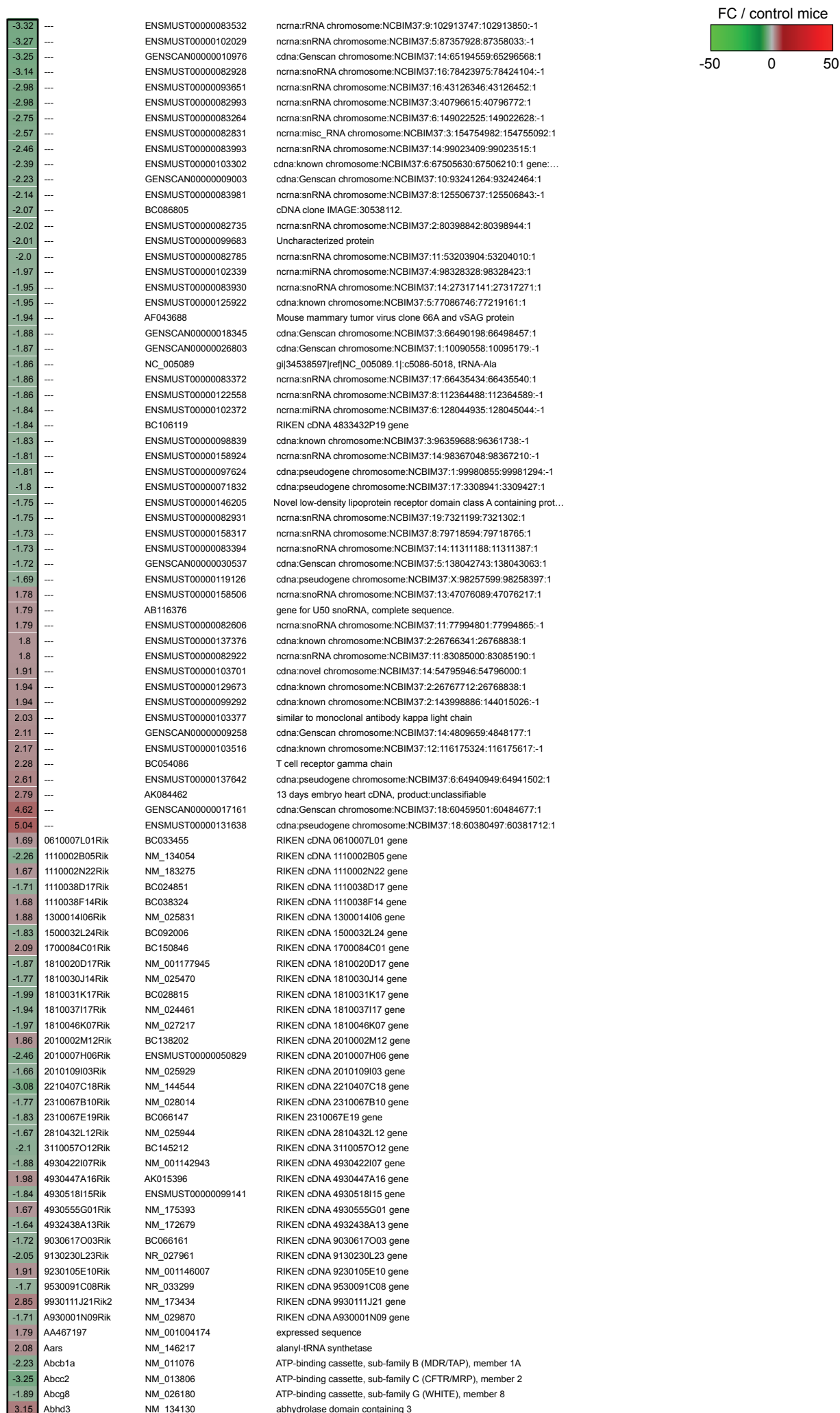


Figure S3B -Host response to *Lm* infection (24h)



-1.83	Abp1	NM_029638	amiloride binding protein 1 (amine oxidase, copper-containing)
-1.92	Acbd4	NM_025988	acyl-Coenzyme A binding domain containing 4, transcript variant 1
-1.86	Acer1	NM_175731	alkaline ceramidase 1
1.93	Acer3	NM_025408	alkaline ceramidase 3
-5.08	Acot12	NM_028790	acyl-CoA thioesterase 12
-1.63	Acot4	NM_134247	acyl-CoA thioesterase 4
-1.88	Acp6	NM_019800	acid phosphatase 6, lysophosphatidic
-2.03	AcpI2	NM_153420	acid phosphatase-like 2
-2.31	Acsf2	NM_153807	acyl-CoA synthetase family member 2
-1.83	AcsI1	NM_007981	acyl-CoA synthetase long-chain family member 1
-1.99	AcsI3	NM_028817	acyl-CoA synthetase long-chain family member 3, transcript variant 1
-1.66	Acsm3	NM_016870	acyl-CoA synthetase medium-chain family member 3, transcript variant 1
-1.93	Acss2	NM_019811	acyl-CoA synthetase short-chain family member 2
-1.81	Actg2	NM_009610	actin, gamma 2, smooth muscle, enteric
-1.86	Acvr1c	NM_001111030	activin A receptor, type IC, transcript variant 1
-4.36	Ada	NM_007398	adenosine deaminase
1.76	Adams1	NM_009621	a disintegrin-like and metallopeptidase with thrombospondin type 1 motif, 1
2.67	Adams3	NM_177872	a disintegrin-like and metallopeptidase with thrombospondin type 1 motif, 3
2.33	Adams9	NM_175314	a disintegrin-like and metallopeptidase with thrombospondin type 1 motif, 9
2.14	Adar	NM_001038587	adenosine deaminase, RNA-specific, transcript variant 2
-2.11	Adck3	NM_023341	aarF domain containing kinase 3, mitochondrial
-3.1	Adh1	NM_007409	alcohol dehydrogenase 1 (class I)
-2.63	Adh4	NM_011996	alcohol dehydrogenase 4 (class II), pi polypeptide
-31...	Adh6a	NM_026945	alcohol dehydrogenase 6A (class V)
-2.02	Adipor2	NM_197985	adiponectin receptor 2
1.79	Adm	NM_009627	adrenomedullin
-1.72	Aff1	NM_001080798	AF4/FMR2 family, member 1, transcript variant 1
-2.18	AI427809	NR_033139	expressed sequence , transcript variant 1, non-coding RNA.
3.34	AI607873	BC150711	expressed sequence AI607873
-2.01	Akr1c12	NM_013777	aldo-keto reductase family 1, member C12
-2.75	Akr1c13	NM_013778	aldo-keto reductase family 1, member C13
-1.68	Akr1c14	NM_134072	aldo-keto reductase family 1, member C14
-4.92	Akr1c19	NM_001013785	aldo-keto reductase family 1, member C19
-2.68	Akr1e1	NM_018859	aldo-keto reductase family 1, member E1
1.9	Aldh1a3	NM_053080	aldehyde dehydrogenase family 1, subfamily A3
-1.92	Aldh3a2	NM_007437	aldehyde dehydrogenase family 3, subfamily A2
-2.32	Aldoc	NM_009657	aldolase C, fructose-bisphosphate
-1.85	Alpi	NM_001081082	alkaline phosphatase, intestinal
4.49	Alpk1	NM_027808	alpha-kinase 1
1.77	Amd1	NM_009665	S-adenosylmethionine decarboxylase 1
1.92	Ampd3	NM_009667	adenosine monophosphate deaminase 3
-1.98	Ank3	NM_146005	ankyrin 3, epithelial, transcript variant 2
-1.85	Ano10	NM_133979	anoctamin 10
2.59	Ano3	NM_001128103	anoctamin 3, transcript variant 2
-1.86	Ano6	NM_175344	anoctamin 6
2.23	Apobec3	NM_001160415	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 3
2.01	Apol10b	NM_177820	apolipoprotein L 10b
1.82	Apol6	NM_028010	apolipoprotein L 6, transcript variant 1
-1.87	Aqp11	NM_175105	aquaporin 11
1.98	Aqp4	NM_009700	aquaporin 4
-1.92	Aqp7	NM_007473	aquaporin 7
1.85	Arf2	NM_007477	ADP-ribosylation factor 2
-1.83	Arg2	NM_009705	arginase type II
-1.89	Arhgap18	NM_176837	Rho GTPase activating protein 18
2.15	Arhgap31	NM_020260	Rho GTPase activating protein 31
1.74	Arhgef6	NM_152801	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6
-1.87	Arhgef9	NM_001033329	CDC42 guanine nucleotide exchange factor (GEF) 9
-1.82	Arrb1	NM_177231	arrestin, beta 1, transcript variant a
1.78	Asah1	NM_019734	N-acylsphingosine amidohydrolase 1
-1.58	Asah2	NM_018830	N-acylsphingosine amidohydrolase 2
5.6	Asns	NM_012055	asparagine synthetase
1.81	Atf4	NM_009716	activating transcription factor 4
-1.76	Atg14	NM_172599	VATG14 autophagy related 14 homolog (S. cerevisiae)
2.08	Atp10b	NM_176999	ATPase, class V, type 10B
1.57	Atp1a1	NM_144900	ATPase, Na+/K+ transporting, alpha 1 polypeptide
2.1	Atp8a1	NM_001038999	ATPase, aminophospholipid transporter (APLT), class I, type 8A
-2.04	B230325K18Rik	ENSMUST00000079...	Putative uncharacterized protein gene:ENSMUSG00000063254
5.18	B3galt5	NM_033149	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5
1.72	B3gnt7	NM_145222	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7
2.31	B4galt1	NM_022305	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
1.76	B4galt5	NM_019835	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5
-1.66	B4galt6	NM_019737	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6
-2.18	Bank1	NM_001033350	B-cell scaffold protein with ankyrin repeats 1
2.85	Batf2	NM_028967	basic leucine zipper transcription factor, ATF-like 2
2.4	BC006779	NM_183162	cDNA sequence
-1.83	BC016579	NM_145389	cDNA sequence,
-8.4	BC018473	NR_003364	cDNA sequence , non-coding RNA.
1.86	BC025446	BC025446	cDNA sequence BC025446
-1.68	BC031353	NM_001113283	cDNA sequence , transcript variant 1
1.73	BC057079	NM_001081184	cDNA sequence
-1.93	Bcas1	NM_029815	breast carcinoma amplified sequence 1, transcript variant 1
-2.04	Bche	NM_009738	butyrylcholinesterase
-1.78	Bckdxb	NM_199195	branched chain ketoacid dehydrogenase E1, beta polypeptide, mitochondrial
1.72	Bcl2l15	NM_001142959	BCL2-like 15, transcript variant 1
2.17	Bcl3	NM_033601	B-cell leukemia/lymphoma 3
1.72	Bcl6	NM_009744	B-cell leukemia/lymphoma 6
2.71	Bmp5	NM_007555	bone morphogenetic protein 5
-2.09	Bmp8b	NM_007559	bone morphogenetic protein 8b
2.06	Brip1	NM_178309	BRCA1 interacting protein C-terminal helicase 1
-2.14	Bst1	NM_009763	bone marrow stromal cell antigen 1
-2.0	Btd	NM_025295	biotinidase
-1.79	C2cd2	NM_174847	C2 calcium-dependent domain containing 2

-6.05	C530030P08Rik	ENSMUST00000101381	Putative uncharacterized protein (Fragment) gene:ENSMUSG00000073057
-1.67	Cables1	NM_001146287	CDK5 and Abl enzyme substrate 1, transcript variant 1
1.72	Cacybp	NM_009786	calcyclin binding protein
-1.75	Car13	NM_024495	carbonic anhydrase 13
1.89	Car2	NM_009801	carbonic anhydrase 2
2.54	Car3	NM_007606	carbonic anhydrase 3
-1.7	Car8	NM_007592	carbonic anhydrase 8
1.68	Card14	NM_130886	caspace recruitment domain family, member 14
2.51	Cars	NM_013742	cysteinyl-tRNA synthetase
3.55	Casp4	NM_007609	caspace 4, apoptosis-related cysteine peptidase
-1.93	Cbr1	NM_007620	carbonyl reductase 1
-4.8	Cobl1	NM_172404	cysteine conjugate-beta lyase 1
1.81	Ccdc86	NM_023731	coiled-coil domain containing 86
1.71	Cck	NM_031161	cholecystokinin
2.27	Ccl11	NM_011330	chemokine (C-C motif) ligand 11
4.35	Ccl12	NM_011331	chemokine (C-C motif) ligand 12
3.88	Ccl2	NM_011333	chemokine (C-C motif) ligand 2
2.93	Ccnd1	NM_007631	cyclin D1
-1.78	Ccng2	NM_007635	cyclin G2
1.96	Ccnjl	NM_001045530	cyclin J-like
-1.74	Ccr1	NM_145700	chemokine (C-C motif) receptor-like 1
-1.94	Cd151	NM_009842	CD151 antigen, transcript variant 1
4.83	Cd274	NM_021893	CD274 antigen
1.88	Cd36	NM_001159557	CD36 antigen, transcript variant 4
2.91	Cd38	NM_007646	CD38 antigen
-2.15	Cd55	NM_010016	CD55 antigen
-1.67	Cd82	NM_007656	CD82 antigen, transcript variant 1
-1.66	Cdc14b	NM_172587	CDC14 cell division cycle 14 homolog B (S. cerevisiae), transcript variant 1
2.05	Cdc45	NM_009862	cell division cycle 45 homolog (S. cerevisiae), transcript variant 1
3.4	Cdk5	NM_001024624	cyclin-dependent kinase-like 5
-2.23	Cdkn1b	NM_009875	cyclin-dependent kinase inhibitor 1B
-2.42	Ceacam18	NM_028236	carcinoembryonic antigen-related cell adhesion molecule 18
2.22	Cebpd	NM_007679	CCAAT/enhancer binding protein (C/EBP), delta
1.82	Cep78	NM_198019	centrosomal protein 78
-2.23	Ces1c	NM_007954	carboxylesterase 1C
-1.93	Ces1d	NM_053200	carboxylesterase 1D
-2.07	Ces1e	NM_133660	carboxylesterase 1E
-3.84	Ces1g	NM_021456	carboxylesterase 1G
-1.76	Ces2a	NM_133960	carboxylesterase 2A, transcript variant 1
-2.03	Ces2c	NM_145603	carboxylesterase 2C
-1.97	Ces2d-ps	NR_033726	carboxylesterase 2D, pseudogene, non-coding RNA.
1.65	Chac1	NM_026929	ChaC, cation transport regulator-like 1 (E. coli)
1.86	Chordc1	NM_025844	cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1
5.13	Chst4	NM_011998	carbohydrate (chondroitin 6/keratan) sulfotransferase 4
1.92	Ciita	NM_007575	class II transactivator
-2.48	Cir1	NM_025854	corepressor interacting with RBPJ, 1
2.47	Cks2	NM_025415	CDC28 protein kinase regulatory subunit 2
4.57	Clca1	NM_009899	chloride channel calcium activated 1
1.8	Clca2	NM_030601	chloride channel calcium activated 2
-2.18	Clca6	NM_207208	chloride channel calcium activated 6
-1.83	Clcn5	NM_016691	chloride channel 5
-1.91	Cldn3	NM_009902	claudin 3
-2.36	Cldn4	NM_009903	claudin 4
-1.9	Cldn8	NM_018778	claudin 8
-1.76	Clec2e	NM_153506	C-type lectin domain family 2, member e
2.24	Clec2j	ENSMUST00000032517	hypothetical protein gene:ENSMUSG00000030363
1.68	Clec4a3	NM_153197	C-type lectin domain family 4, member a3
-2.47	Clec9a	NM_172732	C-type lectin domain family 9, member a
-1.9	Clps	NM_025469	colipase, pancreatic
-1.84	Col12a1	NM_007730	collagen, type XII, alpha 1
1.73	Copg	NM_017477	coatamer protein complex, subunit gamma, transcript variant 1
2.05	Cp	NM_001042611	ceruloplasmin, transcript variant 1
-1.83	Cpm	NM_027468	carboxypeptidase M
-2.22	Cspp1	NM_026493	centrosome and spindle pole associated protein 1
2.39	Csprs	NM_033616	component of Sp100-rs
1.76	Cttnal1	NM_018761	catenin (cadherin associated protein), alpha-like 1
-1.72	Ctns	NM_031251	cystinosis, nephropathic
2.58	Ctps	NM_016748	cytidine 5'-triphosphate synthase
-1.97	Cubn	NM_001081084	cubilin (intrinsic factor-cobalamin receptor)
7.56	Cxcl10	NM_021274	chemokine (C-X-C motif) ligand 10
5.89	Cxcl9	NM_008599	chemokine (C-X-C motif) ligand 9
-1.65	Cyb5b	NM_025558	cytochrome b5 type B, nuclear gene encoding mitochondrial protein
-1.96	Cyb5r3	NM_029787	cytochrome b5 reductase 3
-1.75	Cyp2b10	NM_009999	cytochrome P450, family 2, subfamily b, polypeptide 10, transcript variant 2
-2.21	Cyp2c40	NM_010004	cytochrome P450, family 2, subfamily c, polypeptide 40
-11.00	Cyp2c55	NM_028089	cytochrome P450, family 2, subfamily c, polypeptide 55
-3.36	Cyp2c65	NM_028191	cytochrome P450, family 2, subfamily c, polypeptide 65
-1.96	Cyp2c66	NM_001011707	cytochrome P450, family 2, subfamily c, polypeptide 66
-2.18	Cyp2c68	NM_001039555	cytochrome P450, family 2, subfamily c, polypeptide 68
3.52	Cyp2j11-ps	NM_001004141	cytochrome P450, family 2, subfamily j, polypeptide 11, pseudogene
-1.68	Cyp2j6	NM_010008	cytochrome P450, family 2, subfamily j, polypeptide 6
-1.84	Cyp2j9	NM_028979	cytochrome P450, family 2, subfamily j, polypeptide 9
-3.17	Cyp2s1	NM_028775	cytochrome P450, family 2, subfamily s, polypeptide 1
-3.43	Cyp3a11	NM_007818	cytochrome P450, family 3, subfamily a, polypeptide 11
-6.81	Cyp3a25	NM_019792	cytochrome P450, family 3, subfamily a, polypeptide 25, transcript variant 1
-2.71	Cyp3a41a	NM_017396	cytochrome P450, family 3, subfamily a, polypeptide 41A
-2.72	Cyp3a41b	NM_001105159	cytochrome P450, family 3, subfamily a, polypeptide 41B
-2.64	Cyp3a44	NM_177380	cytochrome P450, family 3, subfamily a, polypeptide 44
-2.14	Cyp4f16	NM_024442	cytochrome P450, family 4, subfamily f, polypeptide 16
-2.65	Cyp51	NM_020010	cytochrome P450, family 51
-1.88	Cytip	NM_139200	cytohesin 1 interacting protein
5.9	D14Ert668e	NM_199015	DNA segment, Chr 14, ERATO Doi 668, expressed

1.85	D17H6S56E-5	L78788	solitary LTR and proviral envelope protein (G7e) mRNA
2.8	D5Erttd579e	NM_001081232	DNA segment, Chr 5, ERATO Doi 579, expressed
2.17	Daxx	NM_007829	Fas death domain-associated protein
-2.03	Dclk1	NM_019978	doublecortin-like kinase 1, transcript variant 1
2.29	Dcp2	NM_027490	DCP2 decapping enzyme homolog (S. cerevisiae)
1.84	Dctn6	NM_011722	dynactin 6
-2.11	Dcun1d1	NM_033623	DCN1, defective in cullin neddylation 1 (S. cerevisiae)
-2.73	Ddc	NM_001190448	dopa decarboxylase, transcript variant 1
1.83	Ddx58	NM_172689	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58
3.22	Ddx60	NM_001081215	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60
1.74	Deb1	NM_026794	differentially expressed in B16F10 1
-2.53	Dfna5	NM_018769	deafness, autosomal dominant 5 (human)
-1.75	Dgkb	NM_178681	diacylglycerol kinase, beta
-1.79	Dhcr24	NM_053272	24-dehydrocholesterol reductase
-1.95	Dhcr7	NM_007856	7-dehydrocholesterol reductase
-1.8	Dhrs3	NM_011303	dehydrogenase/reductase (SDR family) member 3, transcript variant 1
4.93	Dhx58	NM_030150	DEXH (Asp-Glu-X-His) box polypeptide 58
-1.74	Dirc2	NM_153550	disrupted in renal carcinoma 2 (human)
5.07	Dmbt1	NM_007769	deleted in malignant brain tumors 1
-1.94	Dnajb3	NM_008299	DnaJ (Hsp40) homolog, subfamily B, member 3
-1.86	Dpep1	NM_007876	dipeptidase 1 (renal)
-1.71	Dpysl2	NM_009955	dihydropyrimidinase-like 2
2.03	Dtx3l	NM_001013371	deltex 3-like (Drosophila)
4.76	Duox2	NM_177610	dual oxidase 2
4.68	Duoxa2	NM_025777	dual oxidase maturation factor 2
-1.84	Dusp16	NM_130447	dual specificity phosphatase 16, transcript variant A1
1.98	Dusp6	NM_026268	dual specificity phosphatase 6
1.8	E2f3	NM_010093	E2F transcription factor 3
28.95	E430024C06Rik	AK149411	adult male liver tumor cDNA
-1.76	Ebpl	NM_026598	emopamil binding protein-like
-2.44	Edn1	NM_010104	endothelin 1
2.61	Eef1e1	NM_025380	eukaryotic translation elongation factor 1 epsilon 1
-1.7	Eef2k	NM_007908	eukaryotic elongation factor-2 kinase
-1.74	Efcab4b	NM_001033464	EF-hand calcium binding domain 4B
-3.12	Egln3	NM_028133	EGL nine homolog 3 (C. elegans)
1.79	Ehf	NM_007914	ets homologous factor
2.09	Eif1a	NM_010120	eukaryotic translation initiation factor 1A
2.83	Eif2ak2	NM_011163	eukaryotic translation initiation factor 2-alpha kinase 2
2.7	Eif4ebp3	NM_201256	eukaryotic translation initiation factor 4E binding protein 3
1.76	Eif3	NM_001163131	E74-like factor 3, transcript variant 1
-1.77	Elmod3	NM_144917	ELMO/CED-12 domain containing 3
-2.22	Elovl5	NM_134255	ELOVL family member 5, elongation of long chain fatty acids (yeast)
-2.53	Enpp3	NM_134005	ectonucleotide pyrophosphatase/phosphodiesterase 3
2.6	ENSMUSG00000006...	NM_001029930	predicted gene,
-1.76	Entpd4	NM_026174	ectonucleoside triphosphate diphosphohydrolase 4
-2.72	Entpd5	NM_001026214	ectonucleoside triphosphate diphosphohydrolase 5, transcript variant 2
-1.86	Epb4.111	NM_013510	erythrocyte protein band 4.1-like 1, transcript variant 1
1.93	Ereg	NM_007950	epiregulin
2.57	Esco1	NM_001081222	establishment of cohesion 1 homolog 1 (S. cerevisiae)
2.02	Etv6	NM_007961	ets variant gene 6 (TEL oncogene)
1.95	Exo1	NM_012012	exonuclease 1
1.73	Ext1	NM_010162	exostoses (multiple) 1
-1.68	Fabp6	NM_008375	fatty acid binding protein 6, ileal (gastrotropin)
-1.63	Fads3	NM_021890	fatty acid desaturase 3
-1.74	Fam114a2	NM_001168668	family with sequence similarity 114, member A2, transcript variant 1
1.8	Fam118b	BC051180	family with sequence similarity 118, member B
-1.66	Fam126b	NM_172513	family with sequence similarity 126, member B
-2.41	Fam134b	NM_001034851	family with sequence similarity 134, member B, transcript variant 1
-1.82	Fam198b	NM_133187	family with sequence similarity 198, member B
-2.48	Fam20a	NM_153782	family with sequence similarity 20, member A
-2.32	Fam63b	NM_172772	family with sequence similarity 63, member B
2.17	Fam82a2	NM_001033136	family with sequence similarity 82, member A2
-2.39	Fam83b	BC120577	family with sequence similarity 83, member B
-1.74	Fam84a	NM_029007	family with sequence similarity 84, member A
-2.04	Fat3	NM_001080814	FAT tumor suppressor homolog 3 (Drosophila)
2.16	Fbx17	BC050864	cDNA clone IMAGE:6331977.
-1.81	Fchs2	NM_199012	FCH and double SH3 domains 2, transcript variant 1
-1.71	Fdft1	NM_010191	farnesyl diphosphate farnesyl transferase 1
-2.01	Fdps	NM_134469	farnesyl diphosphate synthetase
-5.31	Fgf15	NM_008003	fibroblast growth factor 15
-1.89	Fgf7	NM_008008	fibroblast growth factor 7
1.65	Figf	NM_010216	c-fos induced growth factor
4.55	Fkbp5	NM_010220	FK506 binding protein 5
-2.32	Fmo5	NM_001161765	flavin containing monooxygenase 5, transcript variant 1
1.73	Fndc3b	NM_173182	fibronectin type III domain containing 3B
-2.13	Foxn3	BC029185	forkhead box N3, mRNA (cDNA clone IMAGE:3489687).
-1.77	Foxn3	NM_183186	forkhead box N3
-3.08	Foxo3	ENSMUST00000105502	Putative uncharacterized protein gene:ENSMUSG00000048756
1.87	Fryl	NM_028194	furry homolog-like (Drosophila)
-1.78	Fsd1l	NM_001195284	fibronectin type III and SPRY domain containing 1-like
-1.68	Ftl1 // Ftl1	NM_010240	ferritin light chain 1 (Ftl1)
1.95	Ftsj3	NM_025310	FtsJ homolog 3 (E. coli)
9.15	Fut2	NM_018876	fucosyltransferase 2
1.66	G530011O06Rik	NR_029457	RIKEN cDNA G530011O06 gene, non-coding RNA.
-2.04	G6pc	NM_008061	glucose-6-phosphatase, catalytic
-1.73	Gab1	NM_021356	growth factor receptor bound protein 2-associated protein 1
-3.06	Gas2l3	NM_001033331	growth arrest-specific 2 like 3, transcript variant 1
2.47	Gas5	NR_002840	growth arrest specific 5, non-coding RNA.
-2.2	Gatsl2	ENSMUST00000016088	GATS-like protein 2 gene:ENSMUSG00000015944
16.03	Gbp1	NM_010259	guanylate binding protein 1
3.28	Gbp11	NM_001039647	guanylate binding protein 11
5.89	Gbp2	NM_010260	guanylate binding protein 2

3.91	Gbp3	NM_018734	guanylate binding protein 3
6.88	Gbp4	NM_008620	guanylate binding protein 4
8.96	Gbp5	NM_153564	guanylate binding protein 5
12.9	Gbp6	NM_145545	guanylate binding protein 6
4.4	Gbp8	NM_029509	guanylate-binding protein 8
2.01	Gbp9	NM_172777	guanylate-binding protein 9
-1.66	Gcap14	NM_027045	granule cell antiserum positive 14, transcript variant 1
-2.3	Gch1	NM_008102	GTP cyclohydrolase 1
-2.06	Gclc	NM_010295	glutamate-cysteine ligase, catalytic subunit
-2.63	Gclm	NM_008129	glutamate-cysteine ligase, modifier subunit
2.82	Gcnt3	NM_028087	glucosaminyl (N-acetyl) transferase 3, mucin type
-1.77	Gcom1	NM_001033208	GRINL1A complex locus
2.75	Gdap10	BC052902	ganglioside-induced differentiation-associated-protein 10
-3.38	Gde1	NM_019580	glycerophosphodiester phosphodiesterase 1
2.37	Gem	NM_010276	GTP binding protein (gene overexpressed in skeletal muscle)
3.27	Gemin6	NM_026053	gem (nuclear organelle) associated protein 6
-1.82	Ggt1	NM_008116	gamma-glutamyltransferase 1
-1.97	Gipc2	NM_016867	GIPC PDZ domain containing family, member 2
-2.19	Gk5	NM_177352	glycerol kinase 5 (putative)
-1.97	Gls	NM_001081081	glutaminase, nuclear gene encoding mitochondrial protein, transcript variant 1
-2.91	Glycam1	NM_008134	glycosylation dependent cell adhesion molecule 1
-20.3...	Gm10002	ENSMUST00000070887	Putative uncharacterized protein gene:ENSMUSG00000056640
-2.03	Gm10044	ENSMUST00000090634	hypothetical protein gene:ENSMUSG00000072723
2.08	Gm10406	NM_001164727	predicted gene 10406
-1.86	Gm10430	ENSMUST00000086909	Putative uncharacterized protein (Fragment) gene:ENSMUSG00000072855
1.76	Gm10589	ENSMUST00000098096	Putative uncharacterized protein gene:ENSMUSG00000073861
-2.62	Gm10667	ENSMUST00000098732	Putative uncharacterized protein gene:ENSMUSG00000074318
-2.21	Gm10708	ENSMUST00000098988	Putative uncharacterized protein (Fragment) gene:ENSMUSG00000074512
-3.44	Gm10768	NR_033472	predicted gene 10768, non-coding RNA.
-2.5	Gm10786	ENSMUST00000099550	Putative uncharacterized protein gene:ENSMUSG00000074917
1.81	Gm10791	ENSMUST00000099574	Putative uncharacterized protein gene:ENSMUSG00000074933
-2.1	Gm10796	ENSMUST00000099651	Putative uncharacterized protein gene:ENSMUSG00000074989
-1.86	Gm11437	NM_001037932	predicted gene 11437
3.2	Gm11545	NM_001105561	predicted gene 11545
3.87	Gm12185	NM_001045540	predicted gene 12185
26.34	Gm12250	NM_001135115	predicted gene 12250
-1.74	Gm14085	NM_001085518	predicted gene 14085
1.9	Gm1943	NR_002928	predicted gene 1943, non-coding RNA.
2.2	Gm1973	NM_029288	predicted gene 1973
1.69	Gm2022	NM_001177574	predicted pseudogene 2022
2.38	Gm2897	NM_001177714	predicted gene 2897, transcript variant 1
3.15	Gm3002	NR_033388	predicted gene 3002, non-coding RNA.
2.11	Gm3696	NM_001024712	predicted gene 3696
-1.69	Gm4787	NM_001038995	predicted gene 4787
2.31	Gm4841	NM_001034859	predicted gene 4841
8.25	Gm4951 // Gm4...	NM_001033767	predicted gene 4951 (Gm4951)
2.29	Gm4964 // Gm4...	Z95479	mRNA for IgG1/kappa antibody, scFv48-CK.
5.81	Gm5431	NM_001024230	predicted gene 5431
2.25	Gm5458	NM_001024706	predicted gene 5458
-2.72	Gm6718	XM_905375	PREDICTED: predicted gene 6718
1.69	Gm8300	NM_001177565	predicted gene 8300
-2.59	Gm8979	NR_030719	predicted gene 8979, non-coding RNA.
3.16	Gm9895	ENSMUST00000065159	Putative uncharacterized protein (Fragment)
-3.28	Gm9963	ENSMUST00000068430	Putative uncharacterized protein
1.85	Gmnds	NM_146041	GDP-mannose 4, 6-dehydratase
7.5	Gmi	NM_001177524	GPI anchored molecule like protein
2.14	Gmppb	NM_177910	GDP-mannose pyrophosphorylase B
2.09	Gnl3	NM_153547	guanine nucleotide binding protein-like 3 (nucleolar)
-1.9	Gnrh1	NM_008145	gonadotropin releasing hormone 1
1.82	Gns	NM_029364	glucosamine (N-acetyl)-6-sulfatase
-2.14	Gpatch8	AK135410	12 days embryo female mullerian duct includes surrounding region cDNA
1.75	Gpcpd1	NM_028802	glycerophosphocholine phosphodiesterase GDE1 homolog (S. cerevisiae)
1.76	Gpn1	NM_133756	GPN-loop GTPase 1
1.85	Gpr160	NM_001134385	G protein-coupled receptor 160, transcript variant 1
-2.02	Gpr172b	NM_029643	G protein-coupled receptor 172B
-1.68	Gpr39	NM_027677	G protein-coupled receptor 39
-5.35	Gprc5a	NM_181444	G protein-coupled receptor, family C, group 5, member A
1.83	Gpx2	NM_030677	glutathione peroxidase 2
1.73	Gramd2	NM_001033498	GRAM domain containing 2
-2.7	Grb7	NM_010346	growth factor receptor bound protein 7
-3.03	Gsdmc2	NM_001168274	gasdermin C2, transcript variant 1
-3.33	Gsdmc4	NM_028992	gasdermin C4
2.36	Gsdmd	NM_026960	gasdermin D
2.25	Gsr	NM_010344	glutathione reductase
-4.74	Gsta3	NM_001077353	glutathione S-transferase, alpha 3, transcript variant 1
-1.79	Gsta4	NM_010357	glutathione S-transferase, alpha 4
-1.92	Gstm1	NM_010358	glutathione S-transferase, mu 1
-5.65	Gstm3	NM_010359	glutathione S-transferase, mu 3
-1.73	Gtf2b	NM_145546	general transcription factor IIB
2.05	Gvin1	NM_029000	GTPase, very large interferon inducible 1, transcript variant A
2.33	Gzma	NM_010370	granzyme A
1.92	Gzmb	NM_013542	granzyme B
1.77	H2-DMa	NM_010386	histocompatibility 2, class II, locus DMA
2.28	H2-T24	NM_008207	histocompatibility 2, T region locus 24
-1.74	H60b // H60b	NM_001177775	histocompatibility 60b (H60b)
2.48	Hamp	NM_032541	hepcidin antimicrobial peptide
-2.04	Hbegf	NM_010415	heparin-binding EGF-like growth factor
-2.67	Hcn1	NM_010408	hyperpolarization-activated, cyclic nucleotide-gated K+ 1
-1.88	Hddc3	NM_026812	HD domain containing 3
1.77	Heatr3	NM_172757	HEAT repeat containing 3
6.19	Herc6	NM_025992	hect domain and RLD 6
2.07	Hgf	NM_010427	hepatocyte growth factor

1.79	Hist1h2ab	NM_175660	histone cluster 1, H2ab
1.74	Hist1h2ad	NM_178188	histone cluster 1, H2ad
1.7	Hist1h2af	NM_175661	histone cluster 1, H2af
1.72	Hist1h2ag	NM_178186	histone cluster 1, H2ag
1.74	Hist1h2ah	NM_175659	histone cluster 1, H2ah
1.73	Hist1h2ai	NM_178182	histone cluster 1, H2ai
1.73	Hist1h2an	NM_178184	histone cluster 1, H2an
1.75	Hist1h2ao	NM_001177544	histone cluster 1, H2ao
-2.61	Hist1h2bc	NM_023422	histone cluster 1, H2bc
1.68	Hist1h2bk	NM_175665	histone cluster 1, H2bk
1.68	Hist1h2bl	NM_178199	histone cluster 1, H2bl
1.64	Hist1h2bn	NM_178201	histone cluster 1, H2bn
1.72	Hist1h3d	NM_178204	histone cluster 1, H3d
1.74	Hist1h3h	NM_178206	histone cluster 1, H3h
1.69	Hist1h3i	NM_178207	histone cluster 1, H3i
1.71	Hist2h2aa1	NM_013549	histone cluster 2, H2aa1
1.65	Hist2h2ac	NM_175662	histone cluster 2, H2ac
1.78	Hist2h3b	NM_178215	histone cluster 2, H3b
1.73	Hist2h3c1	NM_178216	histone cluster 2, H3c1
1.68	Hist3h2a	NM_178218	histone cluster 3, H2a
3.33	Hk2	NM_013820	hexokinase 2
2.44	Hmcn1	NM_001024720	hemicentin 1
-2.1	Hmgcs1	NM_145942	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1
6.44	Hmgcs2	NM_008256	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2
1.93	Hs3st1	NM_010474	heparan sulfate (glucosamine) 3-O-sulfotransferase 1
-1.67	Hsd17b11	NM_053262	hydroxysteroid (17-beta) dehydrogenase 11
-3.41	Hsd17b2	NM_008290	hydroxysteroid (17-beta) dehydrogenase 2
-2.29	Hsd17b6	NM_013786	hydroxysteroid (17-beta) dehydrogenase 6
1.88	Hspa1a	NM_010479	heat shock protein 1A
1.94	Hsph1	NM_013559	heat shock 105kDa/110kDa protein 1
1.73	Hyou1	NM_021395	hypoxia up-regulated 1
1.99	I830012O16...	NM_001005858	RIKEN cDNA I830012O16 gene
1.77	Iars	NM_172015	isoleucine-tRNA synthetase
1.89	Icam1	NM_010493	intercellular adhesion molecule 1
-1.68	Id1	NM_145360	isopentenyl-diphosphate delta isomerase
3.0	Ifi203	NM_001045481	interferon activated gene 203, transcript variant 1
4.67	Ifi204	NM_008329	interferon activated gene 204
6.35	Ifi205	NM_172648	interferon activated gene 205
4.76	Ifi44	NM_133871	interferon-induced protein 44
4.81	Ifi47	NM_008330	interferon gamma inducible protein 47
1.8	Ifih1	NM_027835	interferon induced with helicase C domain 1, transcript variant 1
5.32	Ifit1	NM_008331	interferon-induced protein with tetratricopeptide repeats 1
3.59	Ifit2	NM_008332	interferon-induced protein with tetratricopeptide repeats 2
5.83	Ifit3	NM_010501	interferon-induced protein with tetratricopeptide repeats 3
2.31	Ifitm1	NM_026820	interferon induced transmembrane protein 1, transcript variant 1
1.77	Ifitm3	NM_025378	interferon induced transmembrane protein 3
-2.3	Igh-6	BC053409	immunoglobulin heavy chain 6 (heavy chain of IgM), mRNA (cDNA clone IMAGE:30076516).
3.35	Ighg	X70423	M.musculus mRNA for monoclonal antibody heavy chain gamma 2a.
-4.97	Igk-V19-14	U59155	anti-DNA light chain (Vk19) mRNA, partial cds.
-2.5	Igk-V28	DQ078272	immunoglobulin kappa light chain mRNA, complete cds.
9.82	Ilgp1	NM_001146275	interferon inducible GTPase 1, transcript variant 2
2.45	Il15ra	NM_008358	interleukin 15 receptor, alpha chain, transcript variant 1
2.75	Il18	NM_008360	interleukin 18
2.5	Il18bp	NM_010531	interleukin 18 binding protein
1.65	Il18r1	NM_008365	interleukin 18 receptor 1, transcript variant 1
-1.81	Il1r1	NM_001025602	interleukin 1 receptor-like 1, transcript variant 1
-1.89	Il22ra1	NM_178257	interleukin 22 receptor, alpha 1
-2.37	Il22ra2	NM_178258	interleukin 22 receptor, alpha 2
2.51	Il33	NM_001164724	interleukin 33, transcript variant 1
2.3	Il4ra	NM_001008700	interleukin 4 receptor, alpha
1.74	Il7	NM_008371	interleukin 7
2.22	Inpp1	NM_008384	inositol polyphosphate-1-phosphatase
-3.78	Insig1	NM_153526	insulin induced gene 1
2.59	Irf1	NM_008390	interferon regulatory factor 1, transcript variant 1
2.75	Irf8	NM_008320	interferon regulatory factor 8
1.75	Irf9	NM_001159417	interferon regulatory factor 9, transcript variant 1
8.57	Irgm1	NM_008326	immunity-related GTPase family M member 1
13.79	Irgm2	NM_019440	immunity-related GTPase family M member 2
3.52	Isg15	NM_015783	ISG15 ubiquitin-like modifier
-1.72	Itpa8	NM_001001309	integrin alpha 8
-2.38	Kbtbd11	NM_029116	kelch repeat and BTB (POZ) domain containing 11
2.06	Kbtbd8	NM_001008785	kelch repeat and BTB (POZ) domain containing 8, transcript variant 1
-2.26	Kcnj13	NM_001110227	potassium inwardly-rectifying channel, subfamily J, member 13
-1.79	Kdsr	NM_027534	3-ketodihydrospingosine reductase
-1.69	Khvyn	NM_027143	KH and NYN domain containing
-2.57	Klff6	NM_011803	Kruppel-like factor 6
2.1	Klhdc4	NM_145605	kelch domain containing 4
-1.77	Klhl24	NM_029436	kelch-like 24 (Drosophila)
-1.69	Klhl6	NM_183390	kelch-like 6 (Drosophila)
-1.82	Klk1	NM_010639	kallikrein 1
1.72	Klra2	NM_001170851	killer cell lectin-like receptor, subfamily A, member 2, transcript variant 1
-1.84	Krt23	NM_033373	keratin 23
1.67	Kti12	NM_029571	KTI12 homolog, chromatin associated (S. cerevisiae)
-4.25	Lama3	NM_010680	laminin, alpha 3
1.75	Lanc1	NM_001190985	LanC (bacterial lantibiotic synthetase component C)-like 1, transcript variant 1
1.98	Lars	NM_134137	leucyl-tRNA synthetase
1.92	Lbp	NM_008489	lipopolysaccharide binding protein
3.31	Lcn2	NM_008491	lipocalin 2
-1.76	Lct	NM_001081078	lactase
-2.15	Leap2	NM_153069	liver-expressed antimicrobial peptide 2
-2.01	Lipa	NM_021460	lysosomal acid lipase A, transcript variant 1
2.24	LOC1000462...	ENSMUST000001035...	similar to Igha protein gene:ENSMUSG00000076731

-3.31	Lxli2	NM_033325	lysyl oxidase-like 2
-2.2	Lpin2	NM_001164885	lipin 2, transcript variant 1
-5.42	Lrat	NM_023624	lecithin-retinol acyltransferase (phosphatidylcholine-retinol-O-acyltransferase)
1.96	Lrg1	NM_029796	leucine-rich alpha-2-glycoprotein 1
-1.82	Lrrc8b	NM_001033550	leucine rich repeat containing 8 family, member B
1.75	Lsm5	NM_025520	LSM5 homolog, U6 small nuclear RNA associated (<i>S. cerevisiae</i>)
-1.94	Lss	NM_146006	lanosterol synthase
3.53	Ly6a	NM_010738	lymphocyte antigen 6 complex, locus A
3.36	Ly6c1	NM_010741	lymphocyte antigen 6 complex, locus C1
2.49	Ly6c2	NM_001099217	lymphocyte antigen 6 complex, locus C2
1.85	Ly6e	NM_001164036	lymphocyte antigen 6 complex, locus E, transcript variant 1
-4.55	Ly6g6c	NM_023463	lymphocyte antigen 6 complex, locus G6C
-2.16	Ly96	NM_016923	lymphocyte antigen 96, transcript variant 1
2.02	Lyar	NM_025281	Ly1 antibody reactive clone
1.68	Mafb	NM_010658	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)
-1.99	Maob	NM_172778	monoamine oxidase B, nuclear gene encoding mitochondrial protein
-1.9	Map2k6	NM_011943	mitogen-activated protein kinase kinase 6
-1.84	Map3k13	NM_172821	mitogen-activated protein kinase kinase kinase 13
1.93	Mapkbp1	NM_011941	mitogen-activated protein kinase binding protein 1
-1.76	7-Mar	NM_020575	membrane-associated ring finger (C3HC4) 7
-2.33	Marcks1	NM_010807	MARCKS-like 1
2.27	Mars	NM_001171582	methionine-tRNA synthetase, transcript variant 1
-2.0	Mastl	NM_025979	microtubule associated serine/threonine kinase-like
2.19	Mdn1	NM_001081392	midasin homolog (yeast)
-4.23	Me1	NM_008615	maic enzyme 1, NADP(+)-dependent, cytosolic
2.3	Med21	NM_025315	mediator complex subunit 21
1.97	Med27	NM_026896	mediator complex subunit 27
1.8	Med30	NM_027212	mediator complex subunit 30
-1.77	Mef2c	NM_001170537	myocyte enhancer factor 2C, transcript variant 1
-1.72	Megf9	NM_172694	multiple EGF-like-domains 9
-2.73	Mettl7a1	NM_027334	methyltransferase like 7A1
1.95	Mfsd2a	NM_029662	major facilitator superfamily domain containing 2A
-2.06	Mfsd7c	NM_145447	major facilitator superfamily domain containing 7C
-1.65	Mfsd9	NM_172499	major facilitator superfamily domain containing 9
1.96	Mid1	NM_010797	midline 1, transcript variant 1
-2.18	Mir181a-2	NR_029568	microRNA 181a-2, microRNA.
-2.2	Mir181b-2	NR_029904	microRNA 181b-2, microRNA.
-2.88	Mir194-1	NR_029580	microRNA 194-1, microRNA.
-2.0	Mir215	NR_029908	microRNA 215, microRNA.
-1.65	Mir31	NR_029747	microRNA 31, microRNA.
1.91	Mitd1	NM_026913	MIT, microtubule interacting and transport, domain containing 1
3.39	Mikl	NM_029005	mixed lineage kinase domain-like
-1.7	Mlxipl	NM_021455	MLX interacting protein-like
-2.28	Mme	NM_008604	membrane metallo endopeptidase
2.25	Mmp13	NM_008607	matrix metalloproteinase 13
1.86	Mmp7	NM_010810	matrix metalloproteinase 7
-1.8	Mospd1	NM_027409	motile sperm domain containing 1
8.69	Mpa2l	NM_194336	macrophage activation 2 like
-1.71	Mpzl3	NM_176993	myelin protein zero-like 3, transcript variant 1
2.5	Mrpl22	NM_175001	mitochondrial ribosomal protein L22, mitochondrial protein
1.74	Mrpl47	NM_029017	mitochondrial ribosomal protein L47, mitochondrial protein
1.76	Mrps18b	NM_025878	mitochondrial ribosomal protein S18B, mitochondrial protein
1.9	Mrto4	NM_023536	MRT4, mRNA turnover 4, homolog (<i>S. cerevisiae</i>)
-3.08	Ms4a1	NM_007641	membrane-spanning 4-domains, subfamily A, member 1
1.8	Ms4a4c	NM_029499	membrane-spanning 4-domains, subfamily A, member 4C
2.14	Ms4a4d	NM_025658	membrane-spanning 4-domains, subfamily A, member 4D
1.86	Ms4a6b	NM_027209	membrane-spanning 4-domains, subfamily A, member 6B
-1.67	Ms4a7	NM_027836	membrane-spanning 4-domains, subfamily A, member 7, transcript variant 1
2.17	Msr1	NM_031195	macrophage scavenger receptor 1, transcript variant 1
1.78	Mtf1	NM_008636	metal response element binding transcription factor 1
4.01	Mthfd2	NM_008638	methylenetetrahydrofolate dehydrogenase (NAD+ dependent), mitochondrial
-1.7	Mtmr11	NM_181409	myotubularin related protein 11
1.91	Mx1	NM_010846	myxovirus (influenza virus) resistance 1
9.15	Mx2	NR_003508	myxovirus (influenza virus) resistance 2, non-coding RNA.
2.04	Mybbp1a	NM_016776	MYB binding protein (P160) 1a
2.43	Myc	NM_010849	myelocytomatosis oncogene, transcript variant 1
-2.21	Myo9a	NM_173018	myosin IXa
9.94	Myot	NM_001033621	myotilin
1.72	N4bp1	NM_030563	NEDD4 binding protein 1
-1.76	Naaladl1	NM_001009546	N-acetylated alpha-linked acidic dipeptidase-like 1
2.62	Nampt	NM_021524	nicotinamide phosphoribosyltransferase
-1.71	Nbeal1	NM_173444	neurobeachin like 1
1.74	Ncald	NM_134094	neurocalcin delta, transcript variant 1
-2.27	Ndfip2	NM_029561	Nedd4 family interacting protein 2, transcript variant 1
-1.82	Ndrp1	NM_008681	N-myc downstream regulated gene 1
-2.38	Nedd9	NM_001111324	neural precursor cell expressed, developmentally down-regulated gene 9
-2.1	Nek3	NM_001162947	NIMA (never in mitosis gene a)-related expressed kinase 3
-1.79	Nexn	NM_199465	nexilin
2.06	Nfkbiz	NM_030612	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta
-1.74	Ngef	NM_001111314	neuronal guanine nucleotide exchange factor, transcript variant 1
-1.8	Nipal1	NM_001081205	NIPA-like domain containing 1
6.64	Nlr5	NM_001033207	NLR family, CARD domain containing 5
1.85	Noc4l	NM_153570	nucleolar complex associated 4 homolog (<i>S. cerevisiae</i>)
1.82	Nol10	NM_001008421	nucleolar protein 10
1.68	Nol11	NM_133702	nucleolar protein 11, transcript variant 1
1.83	Nolc1	NM_053086	nucleolar and coiled-body phosphoprotein 1, transcript variant 1
1.75	Nop2	NM_138747	NOP2 nucleolar protein homolog (yeast)
2.01	Nop56	NM_024193	NOP56 ribonucleoprotein homolog (yeast)
16.71	Nos2	NM_010927	nitric oxide synthase 2, inducible
-2.65	Npc1	NM_008720	Niemann Pick type C1
-1.97	Npc111	NM_207242	NPC1-like 1
-2.22	Nqo1	NM_008706	NAD(P)H dehydrogenase, quinone 1

1.71	Nrg1	NM_178591	neuregulin 1
1.71	Nsf	NM_008740	N-ethylmaleimide sensitive fusion protein
-6.37	Nt5e	NM_011851	5' nucleotidase, ecto
1.78	Nudt5	NM_016918	nudix (nucleoside diphosphate linked moiety X)-type motif 5
2.51	Oas1a	NM_145211	2'-5' oligoadenylate synthetase 1A
3.12	Oas1b	NR_003507	2'-5' oligoadenylate synthetase 1B, non-coding RNA.
2.5	Oas1g	NM_011852	2'-5' oligoadenylate synthetase 1G
7.99	Oas2	NM_145227	2'-5' oligoadenylate synthetase 2
2.38	Oas3	NM_145226	2'-5' oligoadenylate synthetase 3
2.38	Oasl2	NM_011854	2'-5' oligoadenylate synthetase-like 2
-1.88	Oat	NM_016978	ornithine aminotransferase, nuclear gene encoding mitochondrial protein
4.03	Ociad2	NM_026950	OClA domain containing 2
-1.78	Ocln	NM_008756	occludin
-1.84	Ocm	NM_033039	oncomodulin
-1.97	Odf3b	NM_001013022	outer dense fiber of sperm tails 3B
1.89	Ogfr	NM_031373	opioid growth factor receptor
-1.97	Ogn	NM_008760	osteoglycin
-1.74	Olfrr165	NM_146466	olfactory receptor 165
2.71	Osmr	NM_011019	oncostatin M receptor
-1.79	Otud1	NM_027715	OTU domain containing 1
-1.69	Oxsm	NM_027695	3-oxoacyl-ACP synthase, mitochondrial, nuclear gene encoding mitochondrial protein
-1.82	P2ry2	NM_008773	purinergic receptor P2Y, G-protein coupled 2
2.84	Pappa	NM_021362	pregnancy-associated plasma protein A
-1.7	Papss2	NM_011864	3'-phosphoadenosine 5'-phosphosulfate synthase 2
2.97	Parp11	NM_181402	poly (ADP-ribose) polymerase family, member 11
2.36	Parp12	NM_172893	poly (ADP-ribose) polymerase family, member 12
2.61	Parp14	NM_001039530	poly (ADP-ribose) polymerase family, member 14
2.24	Parp9	NM_030253	poly (ADP-ribose) polymerase family, member 9
3.01	Pcdh9	NM_001081377	protocadherin 9
-2.62	Pck1	NM_011044	phosphoenolpyruvate carboxykinase 1, cytosolic
-1.79	Pcp4	NM_008791	Purkinje cell protein 4
-1.73	Pcp4l1	NM_025557	Purkinje cell protein 4-like 1
-1.89	Pcyox1	NM_025823	prenylcysteine oxidase 1
2.12	Pdgfc	NM_019971	platelet-derived growth factor, C polypeptide
-1.77	Pdk2	NM_133667	pyruvate dehydrogenase kinase, isoenzyme 2
-1.72	Pebp1	NM_018858	phosphatidylethanolamine binding protein 1
-1.69	Perp	NM_022032	PERP, TP53 apoptosis effector
-2.71	Pex1	NM_027777	peroxisomal biogenesis factor 1
2.2	Pex11a	NM_011068	peroxisomal biogenesis factor 11 alpha
6.78	Pfkfb3	NM_001177753	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3, transcript variant 2
-1.7	Pgap1	NM_001163314	post-GPI attachment to proteins 1
-2.11	Pglyrp1	NM_009402	peptidoglycan recognition protein 1
-1.91	Pgm1	NM_025700	phosphoglucomutase 1
2.35	Pgs1	NM_133757	phosphatidylglycerophosphate synthase 1
1.69	Phgdh	NM_016966	3-phosphoglycerate dehydrogenase
-1.69	Plk3r3	NM_181585	phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 3 (p55)
-2.09	Pisd-ps1	NR_003517	phosphatidylserine decarboxylase, pseudogene 1, non-coding RNA.
-1.73	Pkiq	NM_001039390	protein kinase inhibitor, gamma, transcript variant 2
1.78	Pla2g2f	NM_012045	phospholipase A2, group IIF
3.55	Pla2g5	NM_001122954	phospholipase A2, group V, transcript variant 1
1.64	Plac8	NM_139198	placenta-specific 8
2.25	Plce1	NM_019588	phospholipase C, epsilon 1
-2.07	Plek2	NM_013738	pleckstrin 2
-1.97	Plekha1	NM_133942	pleckstrin homology domain containing, family A
-1.83	Plekha3	NM_001039493	pleckstrin homology domain containing, family M, member 3
-4.83	Pmp22	NM_008885	peripheral myelin protein 22
-2.65	Pnliprp2	NM_011128	pancreatic lipase-related protein 2
1.99	Pnpt1	NM_027869	polyribonucleotide nucleotidyltransferase 1
-2.09	Pof1b	NM_181579	premature ovarian failure 1B
1.74	Polr1b	NM_009086	polymerase (RNA) I polypeptide B
-2.04	Polr3e	NM_025298	polymerase (RNA) III (DNA directed) polypeptide E, transcript variant 1
1.71	Pop1	NM_152894	processing of precursor 1, ribonuclease P/MRP family, (S. cerevisiae), transcript variant 1
-1.81	Ppap2a	NM_008247	phosphatidic acid phosphatase type 2A, transcript variant 1
-1.69	Ppara	NM_011144	peroxisome proliferator activated receptor alpha, transcript variant 1
1.82	Ppm1h	NM_001110218	protein phosphatase 1H (PP2C domain containing), transcript variant 1
2.04	Ppm1k	NM_175523	protein phosphatase 1K (PP2C domain containing), nuclear gene encoding mitochondrial protein
1.92	Pprc1	NM_001081214	peroxisome proliferative activated receptor, gamma, coactivator-related 1
-1.92	Prap1	NM_009475	proline-rich acidic protein 1
1.76	Prkg2	NM_008926	protein kinase, cGMP-dependent, type II
-2.65	Prmt3	NM_133740	protein arginine N-methyltransferase 3
2.04	Prmt7	NM_145404	protein arginine N-methyltransferase 7
1.89	Prodh	NM_011172	proline dehydrogenase, nuclear gene encoding mitochondrial protein
1.78	Prom1	NM_001163577	prominin 1, transcript variant 2
1.72	Prr13	NM_025385	proline rich 13, transcript variant 1
-2.06	Prr15	NM_030024	proline rich 15
1.99	Prrg4	NM_178695	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)
-2.28	Prss48	NM_001001650	protease, serine, 48
4.65	Psat1	NM_177420	phosphoserine aminotransferase 1
3.16	Psmb8	NM_010724	proteasome (prosome, macropain) subunit, beta type 8
3.58	Psmb9	NM_013585	proteasome (prosome, macropain) subunit, beta type 9
-2.06	Pten	BC150968	RIKEN cDNA B430203M17 gene, mRNA (cDNA clone MGC:183880 IMAGE:9087880), complete cds.
-1.83	Pter	NM_008961	phosphotriesterase related
5.8	Ptk6	NM_009184	PTK6 protein tyrosine kinase 6
1.84	Ptpn1	NM_011201	protein tyrosine phosphatase, non-receptor type 1
2.29	Ptpn22	NM_008979	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
-2.0	Pttg1ip	NM_145925	pituitary tumor-transforming 1 interacting protein
-1.66	Rab11fip1	NM_001080813	RAB11 family interacting protein 1 (class I), transcript variant 1
-2.69	Rab30	NM_029494	RAB30, member RAS oncogene family
1.74	Rab8b	NM_173413	RAB8B, member RAS oncogene family
-1.7	Rabac1	NM_010261	Rab acceptor 1 (prenylated)
1.72	Ralgapa2	NM_001033348	Ral GTPase activating protein, alpha subunit 2 (catalytic)
1.65	Ranbp1	NM_011239	RAN binding protein 1

4.28	Rasd1	NM_009026	RAS, dexamethasone-induced 1
-5.87	Rasgef1b	NM_145839	RasGEF domain family, member 1B, transcript variant 1
2.37	Rassf4	NM_178045	Ras association (RalGDS/AF-6) domain family member 4
1.77	Rbm19	NM_028762	RNA binding motif protein 19
-1.68	Rbp2	NM_009034	retinol binding protein 2, cellular
5.52	Rdh18-ps	AY053573	truncated cis-retinol/3alpha-hydroxysterol short-chain dehydrogenase mRNA
-2.34	Rdh7	NM_001150749	retinol dehydrogenase 7, transcript variant 1
1.85	Reg1	NM_009042	regenerating islet-derived 1
5.07	Reg3b	NM_011036	regenerating islet-derived 3 beta
2.35	Reg3d	NM_013893	regenerating islet-derived 3 delta, transcript variant 1
3.62	Reg3g	NM_011260	regenerating islet-derived 3 gamma
-3.15	Reg4	NM_026328	regenerating islet-derived family, member 4
-2.9	Reps2	NM_178256	RALBP1 associated Eps domain containing protein 2
21.34	Retnlb		resistin like beta
-3.27	Rgs13	NM_153171	regulator of G-protein signaling 13
1.68	Rgs4	NM_009062	regulator of G-protein signaling 4
1.79	Rhoj	NM_023275	ras homolog gene family, member J
1.84	Ripk2	NM_138952	receptor (TNFRSF)-interacting serine-threonine kinase 2
1.75	Ripk3	NM_019955	receptor-interacting serine-threonine kinase 3, transcript variant 1
-2.05	Rmnd5a	NM_024288	required for meiotic nuclear division 5 homolog A (S. cerevisiae)
2.08	Rnasel	NM_011882	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)
-1.81	Rnf125	NM_026301	ring finger protein 125
-2.49	Rnf152	NM_178779	ring finger protein 152, transcript variant 1
-2.25	Rnf167	NM_027445	ring finger protein 167
-1.72	Rnf170	NM_029965	ring finger protein 170
2.28	Rnf19b	NM_029219	ring finger protein 19B
6.31	Rnf213	AK173199	premature mRNA for mKIAA1554 protein.
7.75	Rnf213	ENSMUST00000131035	hypothetical protein gene:ENSMUSG00000070327
-1.72	Rnf24	NM_178607	ring finger protein 24
-2.98	Rnf32	NM_021470	ring finger protein 32
2.12	Rnu3a	NR_002842	U3A small nuclear RNA, small nuclear RNA.
1.84	Rpf2	NM_023323	ribosome production factor 2 homolog (S. cerevisiae), transcript variant 1
1.86	Rpia	NM_009075	ribose 5-phosphate isomerase A
-2.4	Rpl34	NM_026724	ribosomal protein L34, transcript variant 1
-1.87	Rps3a	BC084675	ribosomal protein S3A, mRNA (cDNA clone MGC:102469 IMAGE:5319512), complete cds.
-2.0	Rragd	NM_027491	Ras-related GTP binding D
1.66	Rrp12	NM_199447	ribosomal RNA processing 12 homolog (S. cerevisiae)
1.83	Rrp15	NM_026041	ribosomal RNA processing 15 homolog (S. cerevisiae)
2.45	Rrp1b	NM_028244	ribosomal RNA processing 1 homolog B (S. cerevisiae), transcript variant 1
1.66	Rrp9	NM_145620	RRP9, small subunit (SSU) processome component, homolog (yeast)
2.2	Rsad2	NM_021384	radical S-adenosyl methionine domain containing 2
2.76	Rtp4	NM_023386	receptor transporter protein 4
1.75	Ruvbl1	NM_019685	RuvB-like protein 1
-2.67	S100a6	NM_011313	S100 calcium binding protein A6 (calyculin)
7.28	Saa1	NM_009117	serum amyloid A 1
2.23	Samhd1	NM_018851	SAM domain and HD domain, 1, transcript variant 1
1.96	Sbno2	NM_183426	strawberry notch homolog 2 (Drosophila)
-3.34	Scd1	NM_009127	stearoyl-Coenzyme A desaturase 1
-6.16	Scd2	NM_009128	stearoyl-Coenzyme A desaturase 2
-1.9	Sdcbp2	NM_145535	syndecan binding protein (syntenin) 2
-2.3	Sec14l2	NM_144520	SEC14-like 2 (S. cerevisiae)
1.94	Sec23b	NM_019787	SEC23B (S. cerevisiae)
-2.49	Serinc3	NM_012032	serine incorporator 3
-2.2	Serinc5	NM_172588	serine incorporator 5
-1.73	Serpina1b	NM_009244	serine (or cysteine) peptidase inhibitor, clade A, member 1B
4.23	Serpina3f	NM_001168294	serine (or cysteine) peptidase inhibitor, clade A, member 3F
7.75	Serpina3n	NM_009252	serine (or cysteine) peptidase inhibitor, clade A, member 3N
1.82	Serping1	NM_009776	serine (or cysteine) peptidase inhibitor, clade G, member 1
-3.01	Sesn1	NM_001162908	sestrin 1, transcript variant 1
-1.71	Sfn	NM_018754	stratifin
-1.7	Sgcd	NM_011891	sarcoglycan, delta (dystrophin-associated glycoprotein)
2.1	Sgk1	NM_001161845	serum/glucocorticoid regulated kinase 1, transcript variant 1
-1.69	Sgk2	NM_013731	serum/glucocorticoid regulated kinase 2
2.84	Sgpp1	NM_030750	sphingosine-1-phosphate phosphatase 1
2.13	Shmt2	NM_028230	serine hydroxymethyltransferase 2 (mitochondrial), mitochondrial
-2.13	Siae	NM_011734	sialic acid acetyltransferase
-1.99	Siah1a	NM_009172	seven in absentia 1A
3.05	Slc10a2	NM_011388	solute carrier family 10, member 2
-2.37	Slc10a5	NM_001010834	solute carrier family 10 (sodium/bile acid cotransporter family), member 5
2.04	Slc10a6	NM_029415	solute carrier family 10 (sodium/bile acid cotransporter family), member 6
-2.91	Slc14a1	NM_001171010	solute carrier family 14 (urea transporter), member 1, transcript variant 1
-7.71	Slc17a4	NM_177016	solute carrier family 17 (sodium phosphate), member 4
-3.15	Slc17a5	NM_172773	solute carrier family 17 (anion/sugar transporter), member 5
-1.98	Slc22a5	NM_011396	solute carrier family 22 (organic cation transporter), member 5
-1.88	Slc23a1	NM_011397	solute carrier family 23 (nucleobase transporters), member 1
-2.12	Slc25a37	NM_026331	solute carrier family 25, member 37, nuclear gene encoding mitochondrial protein
-1.79	Slc25a45	NM_134154	solute carrier family 25, member 45
1.97	Slc26a2	NM_007885	solute carrier family 26 (sulfate transporter), member 2
-1.66	Slc27a4	NM_011989	solute carrier family 27 (fatty acid transporter), member 4
-1.84	Slc28a1	NM_001004184	solute carrier family 28 (sodium-coupled nucleoside transporter), member 1
1.74	Slc28a3	NM_022317	solute carrier family 28 (sodium-coupled nucleoside transporter), member 3
-1.74	Slc30a4	NM_011774	solute carrier family 30 (zinc transporter), member 4
5.81	Slc36a1	NM_153139	solute carrier family 36 (proton/amino acid symporter), member 1
1.75	Slc39a10	NM_172653	solute carrier family 39 (zinc transporter), member 10
-1.92	Slc39a4	NM_028064	solute carrier family 39 (zinc transporter), member 4
2.57	Slc43a3	NM_021398	solute carrier family 43, member 3
-1.83	Slc44a1	ENSMUST00000107651	Solute carrier family 44, member 1 gene:ENSMUSG00000028412
-1.87	Slc44a3	NM_145394	solute carrier family 44, member 3
-1.74	Slc46a1	NM_026740	solute carrier family 46, member 1
-1.72	Slc46a3	NM_027872	solute carrier family 46, member 3
1.97	Slc5a3	NM_017391	solute carrier family 5 (inositol transporters), member 3
-2.61	Slc5a4a	NM_133184	solute carrier family 5, member 4a

-1.99	Slc5a4b	NM_023219	solute carrier family 5 (neutral amino acid transporters, system A), member 4b
1.96	Slc5a8	NM_145423	solute carrier family 5 (iodide transporter), member 8
-2.26	Slc6a20a	NM_139142	solute carrier family 6 (neurotransmitter transporter), member 20A
2.55	Slc7a11	NM_011990	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11
2.49	Slc7a5	NM_011404	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5
-2.82	Slc9a2	NM_001033289	solute carrier family 9 (sodium/hydrogen exchanger), member 2
4.39	Slc9a3	NM_001081060	solute carrier family 9 (sodium/hydrogen exchanger), member 3
4.16	Slfn2	NM_011408	schlafen 2
4.3	Slfn4	NM_011410	schlafen 4
6.9	Slfn5	NM_183201	schlafen 5
1.73	Smad4	NM_008540	MAD homolog 4 (Drosophila)
1.71	Snd1	NM_019776	staphylococcal nuclease and tudor domain containing 1
2.02	Snhg1	AK051045	9 days embryo whole body cDNA, snoRNA host gene (UHG) gene
1.89	Snora44	NR_034050	small nucleolar RNA, H/ACA box 44, small nucleolar RNA.
2.12	Snord118	NR_028566	small nucleolar RNA, C/D box 118, small nucleolar RNA.
2.19	Snord14c	NR_028276	small nucleolar RNA, C/D box 14C, small nucleolar RNA.
3.1	Snord14e	NR_028275	small nucleolar RNA, C/D box 14E, small nucleolar RNA.
1.73	Snord32a	NR_000002	small nucleolar RNA, C/D box 32A, small nucleolar RNA.
1.97	Snord33	NR_001277	small nucleolar RNA, C/D box 33, small nucleolar RNA.
1.7	Snord35b	NR_000004	small nucleolar RNA, C/D box 35B, small nucleolar RNA.
1.79	Snord52	NR_028527	small nucleolar RNA, C/D box 52, small nucleolar RNA.
2.38	Snord53	NR_028551	small nucleolar RNA, C/D box 53, small nucleolar RNA.
1.93	Snrpd3	NM_026095	small nuclear ribonucleoprotein D3
2.01	Snx10	NM_028035	sorting nexin 10, transcript variant 1
-1.84	Snx16	NM_029068	sorting nexin 16, transcript variant 1
3.26	Socs3	U72673	EF-10 mRNA, complete cds.
3.83	Socs3	NM_007707	suppressor of cytokine signaling 3
-2.09	Sord	NM_146126	sorbitol dehydrogenase
2.59	Sp100	NM_013673	nuclear antigen
2.28	Sp110	NM_175397	nuclear body protein
1.76	Spats2l	NM_144882	spermatogenesis associated, serine-rich 2-like, transcript variant 1
-2.64	Sprr1a	NM_009264	small proline-rich protein 1A
1.63	Sptlc2	NM_011479	serine palmitoyltransferase, long chain base subunit 2
-2.63	Srd5a1	NM_175283	steroid 5 alpha-reductase 1
1.75	Srgn	NM_011157	serglycin
2.26	Srm	NM_009272	spermidine synthase
-1.77	St3gal1	NM_009177	ST3 beta-galactoside alpha-2,3-sialyltransferase 1
-2.35	St6galnac1	NM_011371	ST6
-2.22	Stap1	NM_019992	signal transducing adaptor family member 1
-1.66	Stard4	NM_133774	StAR-related lipid transfer (START) domain containing 4
4.7	Stat1	NM_009283	signal transducer and activator of transcription 1
4.94	Stat2	NM_019963	signal transducer and activator of transcription 2
1.71	Stat3	NM_213659	signal transducer and activator of transcription 3, transcript variant 1
2.05	Steap4	NM_054098	STEAP family member 4
1.74	Stip1	NM_016737	stress-induced phosphoprotein 1
4.91	Stom	NM_013515	stomatin
-2.26	Ston2	NM_175367	stonin 2
-2.36	Strbp	NM_009261	spermatid perinuclear RNA binding protein
-1.85	Sult1d1	NM_016771	sulfotransferase family 1D, member 1
2.16	Suv39h1	NM_011514	suppressor of variegation 3-9 homolog 1 (Drosophila)
-2.06	Swap70	NM_009302	SWA-70 protein
-1.76	Synn	NM_201639	synemin, intermediate filament protein, transcript variant 1
2.47	Tac1	NM_009311	tachykinin 1
1.86	Taf13	NM_025444	TAF13 RNA polymerase II, TATA box binding protein (TBP)-associated factor
2.16	Taf1a	NM_021466	TATA box binding protein (Tbp)-associated factor, RNA polymerase I, A
-1.86	Tagln2	NM_178598	transgelin 2
4.63	Tap1	NM_013683	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP), transcript variant 1
2.15	Tars	NM_033074	threonyl-tRNA synthetase
7.04	Tat	NM_146214	tyrosine aminotransferase, nuclear gene encoding mitochondrial protein
1.72	Tbk1	NM_019786	TANK-binding kinase 1
2.27	Tcrg-V3	ENSMUST00000103558	T-cell receptor gamma chain C region C7.5 gene:ENSMUSG00000076749
-1.76	Tet1	NM_027384	tet oncogene 1
2.8	Tgm2	NM_009373	transglutaminase 2, C polypeptide
9.34	Tgtp1	NM_011579	T-cell specific GTPase 1
1.65	Thpo	NM_009379	thrombopoietin, transcript variant 1
-1.79	Thrb	NM_009380	thyroid hormone receptor beta, transcript variant 2
7.96	Tifa	NM_145133	TRAF-interacting protein with forkhead-associated domain
2.06	Tlr2	NM_011905	toll-like receptor 2
2.08	Tm4sf20	NM_025453	transmembrane 4 L six family member 20
-4.49	Tm4sf4	NM_145539	transmembrane 4 superfamily member 4
-1.67	Tm4sf5	NM_029360	transmembrane 4 superfamily member 5
1.99	Tmc5	NM_001105252	transmembrane channel-like gene family 5, transcript variant 1
-1.73	Tmc7	NM_172476	transmembrane channel-like gene family 7
-2.19	Tmem117	NM_178789	transmembrane protein 117
-1.84	Tmem135	NM_028343	transmembrane protein 135
-2.92	Tmem144	NM_027495	transmembrane protein 144
-1.66	Tmem195	NM_178767	transmembrane protein 195
1.82	Tmem199	NM_199199	transmembrane protein 199
-1.78	Tmem218	NM_025464	transmembrane protein 218
1.84	Tmem39a	NM_026407	transmembrane protein 39a
-2.04	Tmem43	NM_028766	transmembrane protein 43
-1.67	Tmem62	NM_175285	transmembrane protein 62
-2.13	Tmem86a	NM_026436	transmembrane protein 86A
-2.22	Tmem86b	NM_023440	transmembrane protein 86B
2.43	Tnfrsf10	NM_009425	tumor necrosis factor (ligand) superfamily, member 10
-2.36	Tppp	NM_182839	tubulin polymerization promoting protein
-1.8	Tppp3	NM_026481	tubulin polymerization-promoting protein family member 3
1.74	Tra2a	AB052758	mAWMS1 mRNA, complete cds.
2.15	Tra2a	NM_198102	transformer 2 alpha homolog (Drosophila)
2.49	Traf1	NM_001163470	TRAF type zinc finger domain containing 1, transcript variant 1
-1.99	Tram2	NM_133252	translocating chain-associating membrane protein 2, transcript variant 1
-3.05	Trdn	NM_029726	triadin

-1.83	Trib1	NM_144549	tribbles homolog 1 (Drosophila)
2.04	Trim12a	NM_023835	tripartite motif-containing 12A
-1.85	Trim16	NM_053169	tripartite motif-containing 16
2.59	Trim21	NM_009277	tripartite motif-containing 21, transcript variant 1
4.38	Trim30a	NM_009099	tripartite motif-containing 30A
1.96	Trim34	NM_030684	tripartite motif-containing 34
-5.88	Trim38	NM_001029935	tripartite motif-containing 38
1.72	Trim40	NM_001033235	tripartite motif-containing 40, transcript variant 1
2.44	Trim56	NM_201373	tripartite motif-containing 56
-2.09	Trp53inp1	NM_021897	transformation related protein 53 inducible nuclear protein 1
-1.79	Trpm4	NM_175130	transient receptor potential cation channel, subfamily M, member 4
-2.19	Trpm6	NM_153417	transient receptor potential cation channel, subfamily M, member 6
-1.94	Tsc22d1	NM_207652	TSC22 domain family, member 1, transcript variant 1
-1.65	Tsku	NM_001168541	tsukushin, transcript variant 1
-2.07	Tspan1	NM_133681	tetraspanin 1
-1.84	Tspan13	NM_025359	tetraspanin 13
-2.1	Tspan5	NM_019571	tetraspanin 5
-1.91	Ttc28	NM_024477	tetratricopeptide repeat domain 28
2.12	Ttc39b	NM_027238	tetratricopeptide repeat domain 39B
-1.68	Ttc39c	NM_028341	tetratricopeptide repeat domain 39C
-3.02	Tubb2a	NM_009450	tubulin, beta 2A
-2.03	Tubb2b	NM_023716	tubulin, beta 2B
-2.15	Tuft1	NM_011656	tuftelin 1
1.91	Uap1	NM_133806	UDP-N-acetylglucosamine pyrophosphorylase 1
1.66	Ubash3b	NM_176860	ubiquitin associated and SH3 domain containing, B
1.85	Ube2g2	NM_019803	ubiquitin-conjugating enzyme E2G 2
-2.07	Ubxn2a	NM_145441	UBX domain protein 2A
2.5	Uck2	ENSMUST00000053...	Uck2 protein (Fragment) gene:ENSMUSG00000053664
-1.68	Ugcg	NM_011673	UDP-glucose ceramide glucosyltransferase
-2.29	Ugdh	NM_009466	UDP-glucose dehydrogenase
1.69	Ugt1	NM_198899	UDP-glucose glycoprotein glucosyltransferase 1
-1.79	Ugt1a9	NM_201644	UDP glucuronosyltransferase 1 family, polypeptide A9
-4.34	Ugt2a3	NM_028094	UDP glucuronosyltransferase 2 family, polypeptide A3
-2.19	Ugt2b34	NM_153598	UDP glucuronosyltransferase 2 family, polypeptide B34
-2.58	Ugt2b36	NM_001029867	UDP glucuronosyltransferase 2 family, polypeptide B36
2.19	Unc5cl	NM_152823	unc-5 homolog C (C. elegans)-like
2.23	Upk1b	NM_178924	uroplakin 1B
2.36	Upp1	NM_009477	uridine phosphorylase 1, transcript variant 1
7.99	Usp18	NM_011909	ubiquitin specific peptidase 18
2.51	Usp31	NM_001033173	ubiquitin specific peptidase 31
1.84	Usp1	NM_001115153	ubiquitin specific peptidase like 1, transcript variant 1
-1.89	Vdr	NM_009504	vitamin D receptor
1.93	Vegfa	NM_001025250	vascular endothelial growth factor A, transcript variant 1
-1.77	Vldlr	NM_013703	very low density lipoprotein receptor, transcript variant 1
-1.89	Vmn1r45	NM_011684	vomeronasal 1 receptor 45
1.82	Vps45	NM_013841	vacuolar protein sorting 45 (yeast)
2.62	Vwa5a	NM_172767	von Willebrand factor A domain containing 5A
3.24	Wars	NM_001164314	tryptophanyl-tRNA synthetase, transcript variant 2
-1.78	Wdfy1	NM_001111279	WD repeat and FYVE domain containing 1, transcript variant 1
2.07	Wdr77	NM_027432	WD repeat domain 77
4.37	Xaf1	NM_001037713	XIAP associated factor 1
1.93	Xdh	NM_011723	xanthine dehydrogenase
-49...	Xist	NR_001463	inactive X specific transcripts, transcript variant 1, non-coding RNA.
-1.83	Xk	NM_023500	Kell blood group precursor (McLeod phenotype) homolog
2.0	Xpot	NM_001081056	exportin, tRNA (nuclear export receptor for tRNAs)
2.92	Yars	NM_134151	tyrosyl-tRNA synthetase
-1.8	Ypel5	NM_027166	yippee-like 5 (Drosophila)
10.13	Zbp1	NM_021394	Z-DNA binding protein 1, transcript variant 1
2.64	Zbtb16	NM_001033324	zinc finger and BTB domain containing 16
1.75	Zdhhc13	NM_028031	zinc finger, DHHC domain containing 13
2.6	Zdhhc15	NM_175358	zinc finger, DHHC domain containing 15
-1.71	Zfand2a	NM_133349	zinc finger, AN1-type domain 2A, transcript variant 1
-1.72	Zfand6	NM_022985	zinc finger, AN1-type domain 6
-1.65	Zfp326	NM_018759	zinc finger protein 326, transcript variant 1
1.68	Zfp330	NM_145600	zinc finger protein 330
-1.7	Zfp780b	NM_001081021	zinc finger protein 780B
2.34	Znfx1	NM_001033196	zinc finger, NFX1-type containing 1
-2.05	Zranb1	ENSMUST00000106...	Ubiquitin thioesterase Zranb1 gene:ENSMUSG00000030967

Figure S3C -Effect of both *Lactobacillus* on host response during *Lm* infection

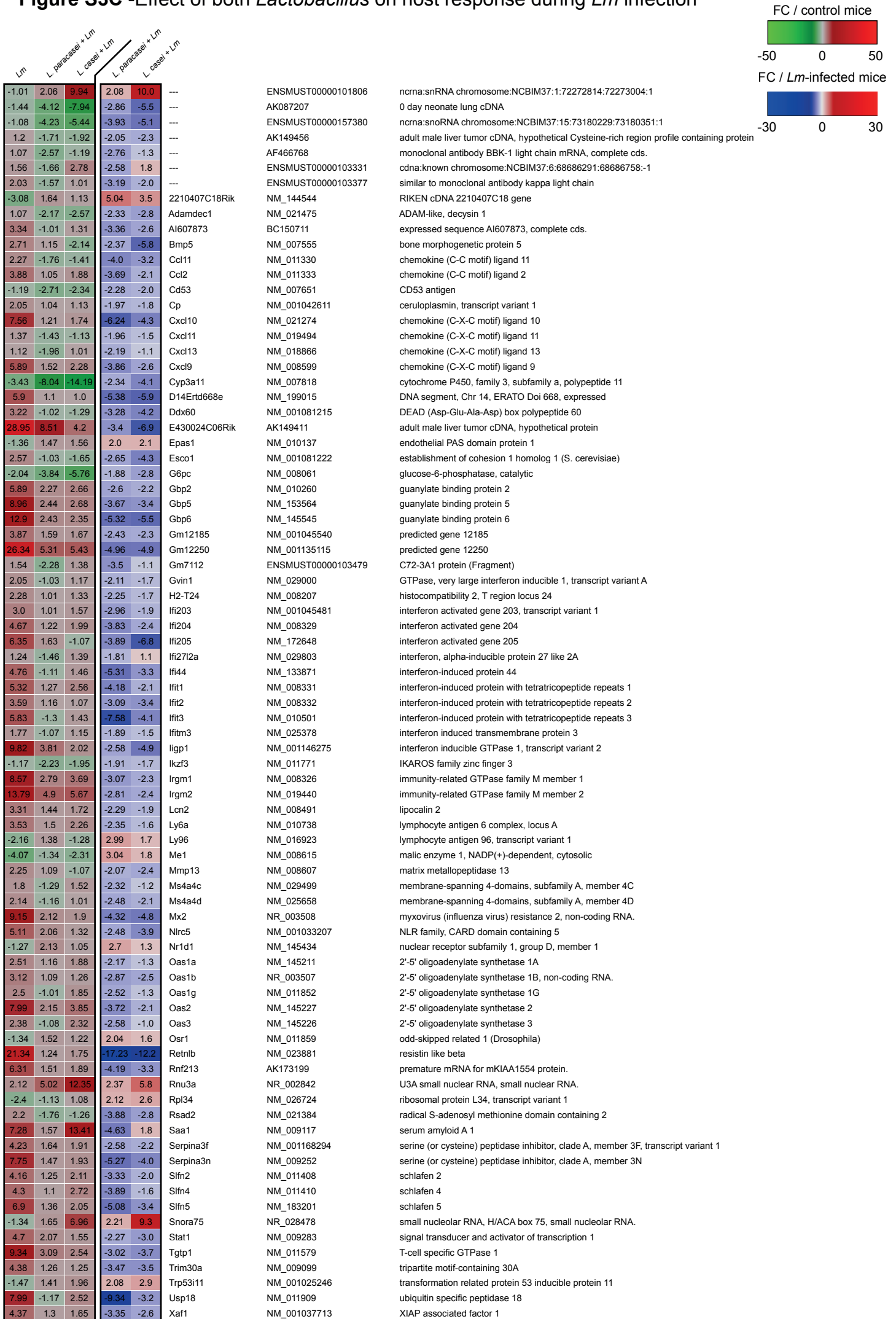
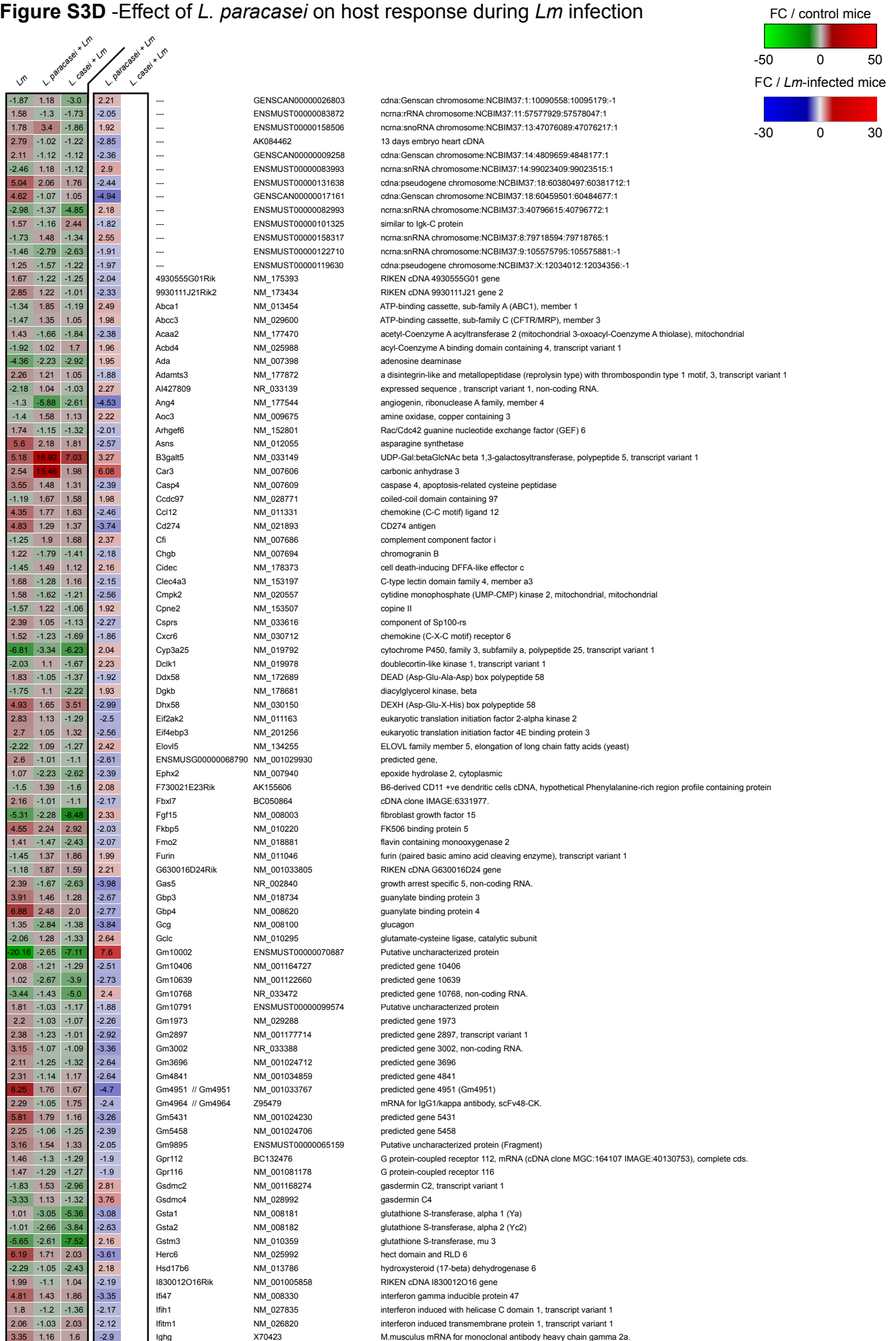


Figure S3D -Effect of *L. paracasei* on host response during *Lm* infection



Lm
 L. paracasei + Lm
 L. casei + Lm
 L. paracasei + Lm
 L. casei + Lm

2.5	1.3	2.09	-1.92	Il18bp	NM_010531	interleukin 18 binding protein
2.51	5.02	2.23	2.0	Il33	NM_001164724	interleukin 33, transcript variant 1
1.74	-1.08	1.06	-1.87	Il7	NM_008371	interleukin 7
3.52	-1.08	2.94	-3.8	Isg15	NM_015783	ISG15 ubiquitin-like modifier
1.98	-1.02	-1.63	-2.02	Lars	NM_134137	leucyl-tRNA synthetase
-1.37	1.37	-1.14	1.88	Lasp1	NM_010688	LIM and SH3 protein 1
-1.27	-2.96	-1.42	-2.33	LOC100503984	XR_107221	PREDICTED: hypothetical , transcript variant 11, partial miscRNA.
-3.31	-1.53	-1.49	2.17	Loxl2	NM_033325	lysyl oxidase-like 2
-5.42	-1.61	-3.49	3.38	Lrat	NM_023624	lecithin-retinol acyltransferase (phosphatidylcholine-retinol-O-acyltransferase)
1.28	-1.45	-1.31	-1.86	Me3	NM_181407	malic enzyme 3, NADP(+)-dependent, mitochondrial, mitochondrial
-2.73	-1.42	-1.98	1.92	Mettl7a1	NM_027334	methyltransferase like 7A1
-1.22	-3.15	-1.67	-2.58	Mir703	NR_030484	microRNA 703, microRNA.
3.39	1.48	1.16	-2.29	Miki	NM_029005	mixed lineage kinase domain-like
1.86	-1.12	1.68	-2.08	Mmp7	NM_010810	matrix metalloproteinase 7
1.26	-2.93	-1.54	-3.68	Mmm1	NM_027613	multimerin 1, transcript variant 1
8.89	2.28	2.1	-3.81	Mpa2l	NM_194336	macrophage activation 2 like
1.86	-1.25	-1.19	-2.34	Ms4a6b	NM_027209	membrane-spanning 4-domains, subfamily A, member 6B
2.17	1.2	1.3	-1.8	Msr1	NM_031195	macrophage scavenger receptor 1, transcript variant 1
4.01	1.42	1.22	-2.83	Mthfd2	NM_008638	methylenetetrahydrofolate dehydrogenase (NAD+ dependent), mitochondrial
-1.01	-2.04	-2.61	-2.03	Mzt1	NM_175245	mitotic spindle organizing protein 1
-1.47	2.27	-1.51	3.34	Naaladl2	XM_975226	PREDICTED: N-acetylated alpha-linked acidic dipeptidase-like 2, transcript variant 2
2.62	1.13	-1.15	-2.32	Nampt	NM_021524	nicotinamide phosphoribosyltransferase
16.71	6.76	8.42	-2.47	Nos2	NM_010927	nitric oxide synthase 2, inducible
-1.97	1.0	-1.29	1.97	Npc1l1	NM_207242	NPC1-like 1
1.69	-1.56	-1.92	-2.63	Nt5c3	NM_026004	5'-nucleotidase, cytosolic III
1.55	-1.34	1.19	-2.08	Oas1	NM_145209	2'-5' oligoadenylate synthetase-like 1
2.38	1.12	1.14	-2.13	Oas2	NM_011854	2'-5' oligoadenylate synthetase-like 2
2.71	1.27	1.08	-2.13	Osmr	NM_011019	oncostatin M receptor
2.84	1.45	1.58	-1.95	Pappa	NM_021362	pregnancy-associated plasma protein A
2.61	1.03	-1.34	-2.53	Parp14	NM_001039530	poly (ADP-ribose) polymerase family, member 14
3.01	1.07	1.06	-2.81	Pcdh9	NM_001081377	protocadherin 9
-1.79	1.06	-1.69	1.9	Pcp4	NM_008791	Purkinje cell protein 4
-1.73	1.11	-1.92	1.92	Pcp4l1	NM_025557	Purkinje cell protein 4-like 1
-1.89	1.13	-2.37	2.13	Pcyox1	NM_025823	prenylcysteine oxidase 1
-2.11	1.01	-1.98	2.13	Pglyrp1	NM_009402	peptidoglycan recognition protein 1
-1.3	1.44	1.22	1.87	Plau	NM_008873	plasminogen activator, urokinase
-4.83	-1.85	-3.65	2.62	Pmp22	NM_008885	peripheral myelin protein 22
-2.65	-5.94	-3.21	-2.24	Pln1pp2	NM_011128	pancreatic lipase-related protein 2
4.65	1.26	1.53	-3.69	Psa1	NM_177420	phosphoserine aminotransferase 1
3.58	1.49	2.34	-2.39	Psmb9	NM_013585	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)
-1.27	1.54	-1.61	1.96	Ptpn3	NM_011207	protein tyrosine phosphatase, non-receptor type 3
4.28	2.11	4.82	-2.03	Rasd1	NM_009026	RAS, dexamethasone-induced 1
-2.9	-1.5	-3.24	1.93	Reps2	NM_178256	RALBP1 associated Eps domain containing protein 2
1.3	-1.6	-2.04	-2.07	Rfx6	NM_001159389	regulatory factor X, 6, transcript variant 1
-3.27	1.25	-2.92	4.07	Rgs13	NM_153171	regulator of G-protein signaling 13
1.55	-1.42	-1.59	-2.2	Rnase1	NM_011271	ribonuclease, RNase A family, 1 (pancreatic)
2.76	-1.07	1.02	-2.96	Rtp4	NM_023386	receptor transporter protein 4
2.23	1.12	-1.14	-2.0	Samhd1	NM_018851	SAM domain and HD domain, 1, transcript variant 1
-3.34	2.25	-2.13	7.51	Scd1	NM_009127	stearoyl-Coenzyme A desaturase 1
-2.49	-1.23	-1.35	2.03	Serinc3	NM_012032	serine incorporator 3
-3.15	-1.27	-3.42	2.49	Slc17a5	NM_172773	solute carrier family 17 (anion/sugar transporter), member 5
-1.92	1.05	1.16	2.02	Slc39a4	NM_028064	solute carrier family 39 (zinc transporter), member 4
1.12	2.58	2.74	2.29	Slc40a1	NM_016917	solute carrier family 40 (iron-regulated transporter), member 1
2.55	-1.11	1.29	-2.83	Slc7a11	NM_011990	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11
-2.82	-1.09	-2.23	2.58	Slc9a2	NM_001033289	solute carrier family 9 (sodium/hydrogen exchanger), member 2
2.59	-1.19	-1.26	-3.08	Sp100	NM_013673	nuclear antigen
1.76	-1.28	-1.21	-2.25	Spats2l	NM_144882	spermatogenesis associated, serine-rich 2-like, transcript variant 1
-2.64	-1.29	-1.86	2.05	Sprr1a	NM_009264	small proline-rich protein 1A
4.94	2.19	1.69	-2.25	Stat2	NM_019963	signal transducer and activator of transcription 2
2.47	-1.3	-1.05	-3.2	Tac1	NM_009311	tachykinin 1
4.63	2.34	4.62	-1.98	Tap1	NM_013683	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP), transcript variant 1
-2.92	-1.35	-3.77	2.16	Tmem144	NM_027495	transmembrane protein 144
2.43	1.18	1.26	-2.06	Tnfsf10	NM_009425	tumor necrosis factor (ligand) superfamily, member 10
2.82	-1.04	1.29	-2.94	Trdn	NM_029726	triadin
2.04	-1.03	-1.5	-2.1	Trim12a	NM_023835	tripartite motif-containing 12A
1.96	-1.1	-1.16	-2.16	Trim34	NM_030684	tripartite motif-containing 34
-1.2	1.68	1.07	2.02	Tubb3	NM_023279	tubulin, beta 3
2.51	1.39	1.57	-1.8	Usp31	NM_001033173	ubiquitin specific peptidase 31
1.52	-1.57	-1.44	-2.39	Zufsp	NM_028287	zinc finger with UFM1-specific peptidase domain

Figure S3E -Effect of *L. casei* on host response during *Lm* infection

