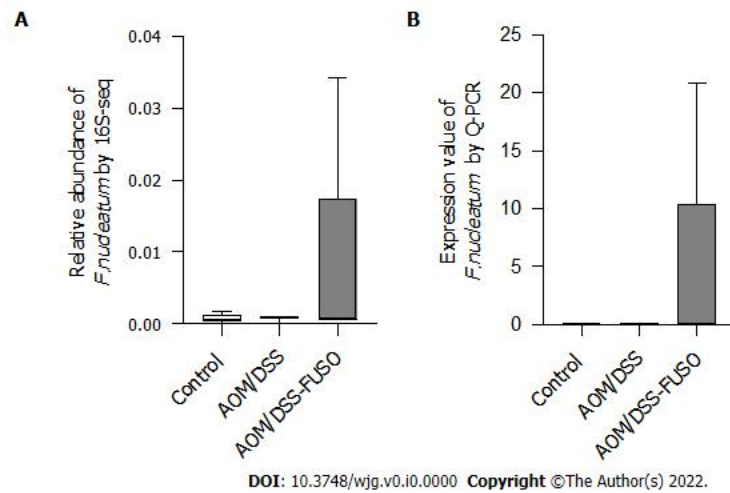
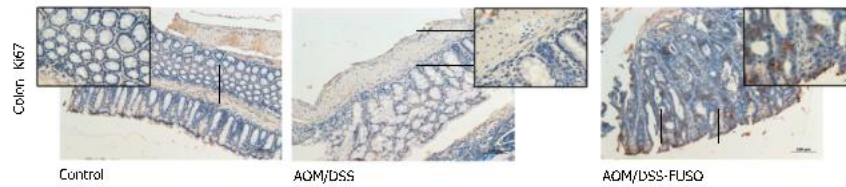


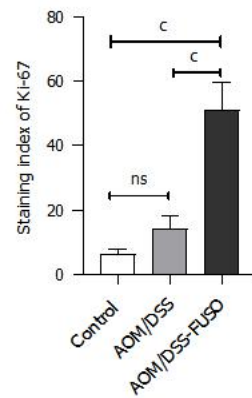


Supplementary Figure 1 Relative abundance of *F. nucleatum* was determined by 16S-sequencing and Q-PCR, respectively. A: 16S-sequencing; B: Q-PCR.

A

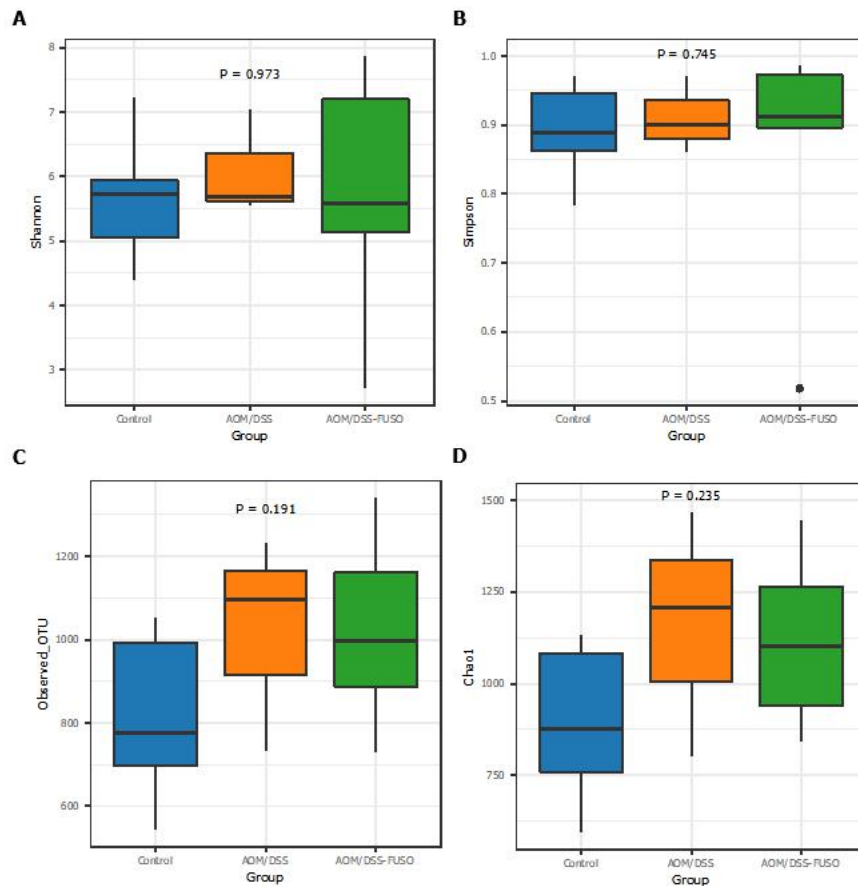


B



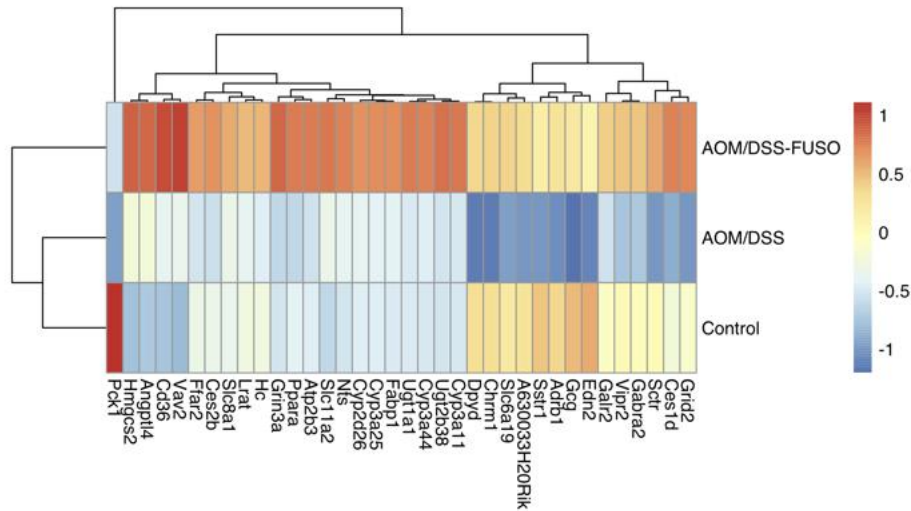
DOI: 10.3748/wjg.v0.i0.0000 Copyright ©The Author(s) 2022.

Supplementary Figure 2 Immunohistochemistry and quantification analysis of Ki-67-positive cells in the colons of the three groups. ^c*P* < 0.01. A: Immunohistochemistry; B: Quantification analysis.



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Supplementary Figure 3 Comparison of Shannon, Simpson, observed OTU and Chao1 alpha diversity indices across all samples. Statistical tests were performed using the Kruskal-Wallis test. A: Shannon; B: Simpson; C: Observed OUT; D: Chao1.



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Supplementary Figure 4 Heatmap of 36 genes in the seven key differentially expressed KEGG pathways.

Supplementary Table 1 DEGs between AOM/DSS and AOM/DSS-FUSO groups

ID	log2 FoldChange	P value	Group	EntrezID	Gene name
ENSMUSG000000002944	1.03	0.00	Up-regulated	12491	CD36 molecule
ENSMUSG000000009621	1.22	0.00	Up-regulated	22325	vav 2 oncogene
ENSMUSG0000000076671	4.95	0.00	Up-regulated	629842	immunoglobulin heavy variable 13-2
ENSMUSG0000000021125	1.50	0.03	Up-regulated	11847	arginase type II
ENSMUSG0000000106445	4.41	0.01	Up-regulated	100861755	predicted gene, 21190
ENSMUSG0000000021448	1.97	0.05	Up-regulated	20418	src homology 2 domain-containing transforming protein C3
ENSMUSG0000000082051	4.28	0.01	Up-regulated	100417609	ecotropic viral integration site 5 pseudogene
ENSMUSG0000000105517	4.19	0.02	Up-regulated	NA	NA

ENSMUSG00000009 0665	4.12	0.01	Up-regulated	NA	NA
ENSMUSG00000006 1906	3.97	0.04	Up-regulated	100559	UDP glucuronosyltransferase 2 family, polypeptide B38
ENSMUSG00000009 7901	3.94	0.03	Up-regulated	NA	NA
ENSMUSG00000002 1565	1.51	0.03	Up-regulated	74338	solute carrier family 6 (neurotransmitter transporter), member 19
ENSMUSG00000009 6150	3.90	0.01	Up-regulated	NA	NA
ENSMUSG00000002 8713	3.88	0.00	Up-regulated	13120	cytochrome P450, family 4, subfamily b, polypeptide 1
ENSMUSG00000010 9089	3.80	0.02	Up-regulated	71624	RIKEN cDNA 4833411C07 gene
ENSMUSG00000009 6326	3.78	0.01	Up-regulated	213570	immunoglobulin heavy variable 1-78
ENSMUSG00000002 2330	3.75	0.00	Up-regulated	107587	odd-skipped related 2
ENSMUSG00000007 9462	3.67	0.03	Up-regulated	NA	NA

ENSMUSG00000002 7790	3.66	0.01	Up-regulated	69983	sucrase isomaltase (alpha-glucosidase)
ENSMUSG00000008 7151	3.66	0.04	Up-regulated	NA	NA
ENSMUSG00000005 3678	3.65	0.04	Up-regulated	360217	defensin beta 40
ENSMUSG00000003 1111	3.62	0.03	Up-regulated	209268	immunoglobulin superfamily, member 1
ENSMUSG00000004 4749	3.58	0.00	Up-regulated	76184	ATP-binding cassette, sub-family A (ABC1), member 6
ENSMUSG00000011 0453	3.50	0.04	Up-regulated	NA	NA
ENSMUSG00000005 6133	3.50	0.04	Up-regulated	667055	unc-93 homolog A2
ENSMUSG00000009 7615	3.42	0.00	Up-regulated	100039138	predicted gene 2061
ENSMUSG00000009 4112	3.39	0.04	Up-regulated	328531	RIKEN cDNA 9330182O14 gene
ENSMUSG00000007 0495	3.37	0.03	Up-regulated	664799	CCCTC-binding factor (zinc finger protein)-like

ENSMUSG00000009 6594	3.30	0.00	Up-regulated	232065	immunoglobulin kappa variable 8-19
ENSMUSG00000005 3093	3.24	0.04	Up-regulated	140781	myosin, heavy polypeptide 7, cardiac muscle, beta
ENSMUSG00000000 1661	3.20	0.04	Up-regulated	15425	homeobox C6
ENSMUSG00000008 3101	3.17	0.03	Up-regulated	NA	NA
ENSMUSG00000003 9579	3.13	0.00	Up-regulated	242443	glutamate receptor ionotropic, NMDA3A
ENSMUSG00000007 8875	3.07	0.03	Up-regulated	NA	NA
ENSMUSG00000002 8310	3.06	0.04	Up-regulated	19059	protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type II)
ENSMUSG00000010 4535	3.04	0.02	Up-regulated	NA	NA
ENSMUSG00000008 6952	3.04	0.04	Up-regulated	NA	NA
ENSMUSG00000008 9960	3.01	0.03	Up-regulated	394436	UDP glucuronosyltransferase 1 family, polypeptide A1

ENSMUSG00000001 9890	2.99	0.01	Up-regulated	67405	neurotensin
ENSMUSG00000002 6614	2.93	0.03	Up-regulated	226781	solute carrier family 30, member 10
ENSMUSG00000002 5013	2.93	0.02	Up-regulated	24087	tolloid-like 2
ENSMUSG00000000 0560	2.90	0.02	Up-regulated	14395	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 2
ENSMUSG00000009 7294	2.89	0.03	Up-regulated	NA	NA
ENSMUSG00000002 1999	5.34	0.00	Up-regulated	56373	carboxypeptidase B2 (plasma)
ENSMUSG00000002 3030	1.06	0.03	Up-regulated	18174	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
ENSMUSG00000002 6387	2.73	0.04	Up-regulated	319229	secretin receptor
ENSMUSG00000009 7691	2.69	0.03	Up-regulated	77699	RIKEN cDNA 9030616G12 gene
ENSMUSG00000003 3182	2.67	0.02	Up-regulated	74589	kelch repeat and BTB (POZ) domain containing 12

ENSMUSG00000010 7689	2.67	0.02	Up-regulated	NA	NA
ENSMUSG00000011 0815	2.64	0.04	Up-regulated	NA	NA
ENSMUSG00000010 3770	2.63	0.04	Up-regulated	192161	protocadherin alpha 9
ENSMUSG00000002 3073	2.62	0.02	Up-regulated	20494	solute carrier family 10, member 2
ENSMUSG00000005 4999	2.55	0.00	Up-regulated	381204	N-acetylated alpha-linked acidic dipeptidase-like 1
ENSMUSG00000010 2158	2.54	0.04	Up-regulated	NA	NA
ENSMUSG00000002 2066	2.45	0.01	Up-regulated	100862375	ectonucleoside triphosphate diphosphohydrolase 4B
ENSMUSG00000002 8777	2.42	0.03	Up-regulated	242851	guanine nucleotide binding protein, alpha transducing 3
ENSMUSG00000004 2641	2.40	0.02	Up-regulated	240816	regulator of G-protein signaling like 1
ENSMUSG00000003 2484	2.38	0.01	Up-regulated	18054	neutrophilic granule protein

ENSMUSG0000011	2.35	0.02	Up-regulated	NA	NA
3101					
ENSMUSG0000002	1.97	0.00	Up-regulated	11689	arachidonate 5-lipoxygenase
5701					
ENSMUSG0000005	2.28	0.01	Up-regulated	81799	C1q and tumor necrosis factor related protein 3
8914					
ENSMUSG0000003	2.24	0.02	Up-regulated	22361	vanin 1
7440					
ENSMUSG0000008	2.23	0.00	Up-regulated	NA	NA
6813					
ENSMUSG0000004	2.18	0.00	Up-regulated	244885	SH2 domain containing 7
6460					
ENSMUSG0000004	2.17	0.02	Up-regulated	93879	protocadherin beta 8
5876					
ENSMUSG0000005	2.16	0.00	Up-regulated	12623	carboxylesterase 1G
7074					
ENSMUSG0000003	2.13	0.00	Up-regulated	20605	somatostatin receptor 1
5431					
ENSMUSG0000008	2.13	0.03	Up-regulated	NA	NA
7404					

ENSMUSG00000006 2275	2.12	0.03	Up-regulated	382106	F-box and WD-40 domain protein 24
ENSMUSG00000010 1174	2.10	0.01	Up-regulated	15436	homeobox D4
ENSMUSG00000006 4140	2.07	0.02	Up-regulated	214158	tripartite motif-containing 38
ENSMUSG00000010 9305	2.05	0.00	Up-regulated	100040049	small integral membrane protein 38
ENSMUSG00000009 5351	2.05	0.02	Up-regulated	626583	immunoglobulin kappa variable 3-2
ENSMUSG00000004 6082	2.02	0.03	Up-regulated	68344	transmembrane protein 174
ENSMUSG00000001 9577	2.00	0.00	Up-regulated	27273	pyruvate dehydrogenase kinase, isoenzyme 4
ENSMUSG00000005 1079	1.99	0.02	Up-regulated	246709	regulator of G-protein signaling 13
ENSMUSG00000003 2292	1.99	0.00	Up-regulated	23958	nuclear receptor subfamily 2, group E, member 3
ENSMUSG00000000 9246	1.99	0.00	Up-regulated	56843	transient receptor potential cation channel, subfamily M, member 5

ENSMUSG00000002 6874	2.78	0.02	Up-regulated	15139	hemolytic complement
ENSMUSG00000002 7875	1.36	0.01	Up-regulated	15360	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2
ENSMUSG00000002 9630	5.28	0.01	Up-regulated	56388	cytochrome P450, family 3, subfamily a, polypeptide 25
ENSMUSG00000003 7953	1.95	0.00	Up-regulated	333424	alpha-1,4-N-acetylglucosaminyltransferase
ENSMUSG00000002 2445	1.94	0.02	Up-regulated	76279	cytochrome P450, family 2, subfamily d, polypeptide 26
ENSMUSG00000002 3828	1.93	0.01	Up-regulated	20519	solute carrier family 22 (organic cation transporter), member 3
ENSMUSG00000003 7492	1.92	0.02	Up-regulated	320158	zinc finger, matrin type 4
ENSMUSG00000005 0097	1.92	0.00	Up-regulated	234669	carboxyesterase 2B
ENSMUSG00000007 6754	1.91	0.03	Up-regulated	21636	T cell receptor gamma variable 2
ENSMUSG00000005 3399	1.85	0.04	Up-regulated	208936	a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 18

ENSMUSG00000004 6532	1.84	0.00	Up-regulated	11835	androgen receptor
ENSMUSG00000003 1376	1.96	0.01	Up-regulated	320707	ATPase, Ca++ transporting, plasma membrane 3
ENSMUSG00000002 1573	1.83	0.02	Up-regulated	72948	tubulin polymerization promoting protein
ENSMUSG00000011 2129	1.83	0.02	Up-regulated	68371	phenazine biosynthesis-like protein domain containing 1
ENSMUSG00000002 8003	1.82	0.05	Up-regulated	79235	lecithin-retinol acyltransferase (phosphatidylcholine-retinol-O-acyltransferase)
ENSMUSG00000003 6815	1.82	0.01	Up-regulated	269109	dipeptidylpeptidase 10
ENSMUSG00000005 6973	1.82	0.00	Up-regulated	104158	carboxylesterase 1D
ENSMUSG00000006 5952	1.81	0.04	Up-regulated	546049	ribosomal protein S23, retrogene 1
ENSMUSG00000002 4136	1.81	0.02	Up-regulated	66705	deoxyribonuclease 1-like 2
ENSMUSG00000003 5283	1.30	0.03	Up-regulated	11554	adrenergic receptor, beta 1

ENSMUSG00000003 3308	1.80	0.01	Up-regulated	99586	dihydropyrimidine dehydrogenase
ENSMUSG00000010 3793	1.79	0.04	Up-regulated	93714	protocadherin gamma subfamily A, 6
ENSMUSG00000005 6648	1.77	0.03	Up-regulated	15416	homeobox B8
ENSMUSG00000004 8763	1.76	0.01	Up-regulated	15410	homeobox B3
ENSMUSG00000009 7453	1.76	0.02	Up-regulated	NA	NA
ENSMUSG00000003 6110	1.75	0.04	Up-regulated	218103	solute carrier family 17 (sodium phosphate), member 2
ENSMUSG00000002 4076	1.74	0.04	Up-regulated	74199	vitrin
ENSMUSG00000002 6308	1.74	0.03	Up-regulated	70788	kelch-like 30
ENSMUSG00000008 6279	1.72	0.03	Up-regulated	NA	NA
ENSMUSG00000005 4641	1.71	0.01	Up-regulated	70945	multimerin 1

ENSMUSG00000005 0860	1.71	0.04	Up-regulated	237928	phosphatase, orphan 1
ENSMUSG00000006 2151	1.69	0.00	Up-regulated	208898	unc-13 homolog C
ENSMUSG00000007 4824	1.69	0.01	Up-regulated	432770	regulator of sex-limitation candidate 18
ENSMUSG00000004 4860	1.68	0.01	Up-regulated	382097	predicted gene 1123
ENSMUSG00000005 0103	1.66	0.00	Up-regulated	319660	alkylglycerol monooxygenase
ENSMUSG00000005 6553	1.66	0.01	Up-regulated	19276	protein tyrosine phosphatase, receptor type, N polypeptide 2
ENSMUSG00000002 2383	1.65	0.02	Up-regulated	19013	peroxisome proliferator activated receptor alpha
ENSMUSG00000003 0825	1.65	0.00	Up-regulated	66065	hydroxysteroid (17-beta) dehydrogenase 14
ENSMUSG00000004 3441	1.62	0.05	Up-regulated	229357	G protein-coupled receptor 149
ENSMUSG00000002 8088	1.62	0.01	Up-regulated	14263	flavin containing monooxygenase 5

ENSMUSG00000003 8540	1.62	0.05	Up-regulated	233424	transmembrane channel-like gene family 3
ENSMUSG00000004 7414	1.62	0.02	Up-regulated	399558	fibronectin leucine rich transmembrane protein 2
ENSMUSG00000002 0793	1.62	0.03	Up-regulated	14428	galanin receptor 2
ENSMUSG00000003 6218	1.61	0.03	Up-regulated	239618	PDZ domain containing RING finger 4
ENSMUSG00000002 1278	1.59	0.02	Up-regulated	93835	amnionless
ENSMUSG00000009 6490	1.59	0.01	Up-regulated	667550	immunoglobulin kappa variable 10-94
ENSMUSG00000003 7660	2.32	0.03	Up-regulated	238057	growth differentiation factor 7
ENSMUSG00000000 2475	1.58	0.01	Up-regulated	106861	abhydrolase domain containing 3
ENSMUSG00000010 6067	1.58	0.04	Up-regulated	666038	predicted gene 7902
ENSMUSG00000003 9488	1.58	0.04	Up-regulated	244682	contactin 5

ENSMUSG00000007 2720	1.57	0.05	Up-regulated	74376	myosin XVIIIb
ENSMUSG00000008 6163	1.56	0.05	Up-regulated	NA	NA
ENSMUSG00000006 6361	1.55	0.04	Up-regulated	16625	serine (or cysteine) peptidase inhibitor, clade A, member 3C
ENSMUSG00000003 0155	1.55	0.02	Up-regulated	232409	C-type lectin domain family 2, member e
ENSMUSG00000005 5421	1.55	0.02	Up-regulated	211712	protocadherin 9
ENSMUSG00000003 1647	1.52	0.02	Up-regulated	71306	microfibrillar-associated protein 3-like
ENSMUSG00000004 1261	1.51	0.01	Up-regulated	12319	carbonic anhydrase 8
ENSMUSG00000004 8916	1.51	0.04	Up-regulated	NA	NA
ENSMUSG00000005 2131	1.59	0.02	Up-regulated	11997	aldo-keto reductase family 1, member B7
ENSMUSG00000005 4293	1.51	0.05	Up-regulated	213438	purinergic receptor P2Y, G-protein coupled 10B

ENSMUSG00000005 4417	4.55	0.00	Up-regulated	337924	cytochrome P450, family 3, subfamily a, polypeptide 44
ENSMUSG00000005 4422	3.93	0.01	Up-regulated	14080	fatty acid binding protein 1, liver
ENSMUSG00000002 9608	1.49	0.04	Up-regulated	19894	rabphilin 3A
ENSMUSG00000002 1301	1.49	0.02	Up-regulated	94253	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1
ENSMUSG00000010 6831	1.48	0.03	Up-regulated	NA	NA
ENSMUSG00000000 0794	1.48	0.03	Up-regulated	140493	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3
ENSMUSG00000003 7762	1.45	0.03	Up-regulated	66859	solute carrier family 16 (monocarboxylic acid transporters), member 9
ENSMUSG00000011 4375	1.45	0.03	Up-regulated	NA	NA
ENSMUSG00000000 7279	1.45	0.03	Up-regulated	56788	signal peptide, CUB domain, EGF-like 2
ENSMUSG00000009 4800	1.45	0.01	Up-regulated	100039175	predicted gene 9780

ENSMUSG00000005 7315	1.43	0.02	Up-regulated	231532	Rho GTPase activating protein 24
ENSMUSG00000003 7579	1.43	0.05	Up-regulated	16512	potassium voltage-gated channel, subfamily H (eag-related), member 3
ENSMUSG00000003 2015	1.43	0.03	Up-regulated	18988	POU domain, class 2, transcription factor 3
ENSMUSG00000000 1334	1.42	0.04	Up-regulated	384061	fibronectin type III domain containing 5
ENSMUSG00000002 9335	1.42	0.02	Up-regulated	110075	bone morphogenetic protein 3
ENSMUSG00000005 5653	1.41	0.03	Up-regulated	14734	glypican 3
ENSMUSG00000004 1216	1.40	0.05	Up-regulated	74438	clavesin 1
ENSMUSG00000001 9775	1.40	0.03	Up-regulated	56533	regulator of G-protein signaling 17
ENSMUSG00000003 5566	1.39	0.05	Up-regulated	219228	protocadherin 17
ENSMUSG00000009 0254	1.39	0.02	Up-regulated	434065	predicted gene 1965

ENSMUSG00000002	1.38	0.03	Up-regulated	NA	NA
5515					
ENSMUSG00000000	1.37	0.01	Up-regulated	57276	V-set and immunoglobulin domain containing 2
1943					
ENSMUSG00000005	1.80	0.03	Up-regulated	20541	solute carrier family 8 (sodium/calcium exchanger), member 1
4640					
ENSMUSG00000009	1.35	0.03	Up-regulated	NA	NA
8426					
ENSMUSG00000000	1.35	0.01	Up-regulated	57875	angiopoietin-like 4
2289					
ENSMUSG00000003	1.35	0.04	Up-regulated	238205	leucine rich repeat and fibronectin type III domain containing 5
5653					
ENSMUSG00000002	1.35	0.03	Up-regulated	14560	growth differentiation factor 10
1943					
ENSMUSG00000009	1.34	0.05	Up-regulated	381777	immunoglobulin kappa variable 1-110
3861					
ENSMUSG00000002	1.34	0.02	Up-regulated	15437	homeobox D8
7102					
ENSMUSG00000002	1.34	0.01	Up-regulated	110542	anti-Mullerian hormone type 2 receptor
3047					

ENSMUSG00000004 2115	1.33	0.00	Up-regulated	213417	kelch domain containing 8A
ENSMUSG00000002 8635	1.31	0.03	Up-regulated	13615	endothelin 2
ENSMUSG00000005 1314	1.31	0.03	Up-regulated	233079	free fatty acid receptor 2
ENSMUSG00000005 6035	4.32	0.02	Up-regulated	13112	cytochrome P450, family 3, subfamily a, polypeptide 11
ENSMUSG00000002 7513	1.26	0.02	Up-regulated	18534	phosphoenolpyruvate carboxykinase 1, cytosolic
ENSMUSG00000002 2762	1.26	0.03	Up-regulated	17968	neural cell adhesion molecule 2
ENSMUSG00000003 7005	1.24	0.03	Up-regulated	170745	X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound
ENSMUSG00000003 0075	1.23	0.02	Up-regulated	18488	contactin 3
ENSMUSG00000004 1669	1.22	0.02	Up-regulated	170952	proline rich membrane anchor 1
ENSMUSG00000005 8152	1.84	0.01	Up-regulated	78923	chondroitin sulfate synthase 3

ENSMUSG00000002 2032	1.21	0.02	Up-regulated	71145	scavenger receptor class A, member 5
ENSMUSG00000002 4176	1.20	0.01	Up-regulated	20681	SRY (sex determining region Y)-box 8
ENSMUSG00000001 1171	1.19	0.04	Up-regulated	22355	vasoactive intestinal peptide receptor 2
ENSMUSG00000002 8519	1.19	0.05	Up-regulated	13131	disabled 1
ENSMUSG00000004 7394	1.19	0.04	Up-regulated	70113	outer dense fiber of sperm tails 3B
ENSMUSG00000007 8915	1.18	0.04	Up-regulated	NA	NA
ENSMUSG00000007 6435	1.18	0.03	Up-regulated	264895	acyl-CoA synthetase family member 2
ENSMUSG00000003 1377	1.18	0.01	Up-regulated	12169	BMX non-receptor tyrosine kinase
ENSMUSG00000003 0787	1.18	0.01	Up-regulated	114332	lymphatic vessel endothelial hyaluronan receptor 1
ENSMUSG00000003 5506	1.17	0.01	Up-regulated	171286	solute carrier family 12 (potassium/chloride transporters), member 8

ENSMUSG00000003 4532	1.16	0.04	Up-regulated	50759	F-box protein 16
ENSMUSG00000005 0751	1.16	0.04	Up-regulated	209966	piggyBac transposable element derived 5
ENSMUSG00000002 6109	1.16	0.03	Up-regulated	56363	transmembrane protein with EGF-like and two follistatin-like domains 2
ENSMUSG00000001 7491	1.15	0.04	Up-regulated	218772	retinoic acid receptor, beta
ENSMUSG00000002 9161	1.15	0.04	Up-regulated	68567	cell growth regulator with EF hand domain 1
ENSMUSG00000007 1424	1.15	0.00	Up-regulated	14804	glutamate receptor, ionotropic, delta 2
ENSMUSG00000003 2564	1.15	0.03	Up-regulated	74020	copine IV
ENSMUSG00000002 5429	1.15	0.03	Up-regulated	19201	proline-serine-threonine phosphatase-interacting protein 2
ENSMUSG00000001 7692	1.15	0.01	Up-regulated	246104	rhomboid like 3
ENSMUSG00000003 2226	1.14	0.02	Up-regulated	72077	glucosaminyl (N-acetyl) transferase 3, mucin type

ENSMUSG00000000 5672	1.14	0.03	Up-regulated	16590	KIT proto-oncogene receptor tyrosine kinase
ENSMUSG00000009 3579	1.14	0.04	Up-regulated	NA	NA
ENSMUSG00000003 9063	1.14	0.00	Up-regulated	67856	enoyl Coenzyme A hydratase domain containing 3
ENSMUSG00000000 5640	1.13	0.05	Up-regulated	23920	insulin receptor-related receptor
ENSMUSG00000005 0505	1.13	0.03	Up-regulated	219257	protocadherin 20
ENSMUSG00000002 6828	1.13	0.04	Up-regulated	241391	polypeptide N-acetylgalactosaminyltransferase 5
ENSMUSG00000010 2224	1.12	0.00	Up-regulated	76873	RIKEN cDNA 4930447F24 gene
ENSMUSG00000010 5681	1.11	0.04	Up-regulated	NA	NA
ENSMUSG00000003 4813	1.10	0.05	Up-regulated	74053	glutamate receptor interacting protein 1
ENSMUSG00000002 9861	1.10	0.03	Up-regulated	76156	family with sequence similarity 131, member B

ENSMUSG00000010 1800	1.09	0.02	Up-regulated	NA	NA
ENSMUSG00000003 1613	1.09	0.04	Up-regulated	15446	hydroxyprostaglandin dehydrogenase 15 (NAD)
ENSMUSG00000002 2371	1.06	0.05	Up-regulated	12818	collagen, type XIV, alpha 1
ENSMUSG00000007 9105	1.50	0.01	Up-regulated	109828	complement component 7
ENSMUSG00000009 5649	1.06	0.04	Up-regulated	NA	NA
ENSMUSG00000003 2773	1.06	0.01	Up-regulated	12669	cholinergic receptor, muscarinic 1, CNS
ENSMUSG00000003 4785	1.05	0.02	Up-regulated	13370	deiodinase, iodothyronine, type I
ENSMUSG00000008 5558	1.05	0.04	Up-regulated	NA	NA
ENSMUSG00000002 1587	1.04	0.04	Up-regulated	18548	proprotein convertase subtilisin/kexin type 1
ENSMUSG00000002 2885	1.04	0.02	Up-regulated	20440	beta galactoside alpha 2,6 sialyltransferase 1

ENSMUSG00000005 3963	1.04	0.04	Up-regulated	381310	mechanosensory transduction mediator
ENSMUSG00000009 8470	2.86	0.03	Up-regulated	667277	complement component 1, r subcomponent B
ENSMUSG00000000 0394	1.03	0.02	Up-regulated	14526	glucagon
ENSMUSG00000002 7955	1.03	0.04	Up-regulated	68659	golgi associated kinase 1B
ENSMUSG00000004 0412	1.03	0.01	Up-regulated	229722	endosome-lysosome associated apoptosis and autophagy regulator 1
ENSMUSG00000002 9664	1.03	0.03	Up-regulated	21789	tissue factor pathway inhibitor 2
ENSMUSG00000003 8473	1.03	0.03	Up-regulated	70729	nitric oxide synthase 1 (neuronal) adaptor protein
ENSMUSG00000003 9405	1.03	0.02	Up-regulated	76453	protease, serine 23
ENSMUSG00000004 0148	1.02	0.02	Up-regulated	15373	H6 homeobox 3
ENSMUSG00000011 0277	1.01	0.01	Up-regulated	108168395	predicted gene 45871

ENSMUSG00000003 9760	1.01	0.04	Up-regulated	237310	interleukin 22 receptor, alpha 2
ENSMUSG00000003 5849	1.01	0.04	Up-regulated	268481	keratin 22
ENSMUSG00000005 0100	1.00	0.03	Up-regulated	15372	H6 homeobox 2
ENSMUSG00000008 3411	-1.01	0.02	Down-regulated	NA	NA
ENSMUSG00000010 9005	-1.01	0.04	Down-regulated	NA	NA
ENSMUSG00000001 0760	-1.05	0.03	Down-regulated	22113	pleckstrin homology like domain, family A, member 2
ENSMUSG00000009 6959	-1.05	0.02	Down-regulated	105246071	RIKEN cDNA 4930509G22 gene
ENSMUSG00000004 3024	-1.07	0.00	Down-regulated	677205	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18 pseudogene
ENSMUSG00000002 1306	-1.07	0.01	Down-regulated	83924	G protein-coupled receptor 137B
ENSMUSG00000004 2306	-1.08	0.04	Down-regulated	66166	S100 calcium binding protein A14

ENSMUSG00000008	-1.10	0.03	Down-regulated	NA	NA
8185					
ENSMUSG00000005	-1.11	0.05	Down-regulated	329731	TAFA chemokine like family member 3
5865					
ENSMUSG00000003	-1.13	0.05	Down-regulated	70882	armadillo repeat containing 3
7683					
ENSMUSG00000007	-1.13	0.04	Down-regulated	12519	CD80 antigen
5122					
ENSMUSG00000007	-1.14	0.01	Down-regulated	NA	NA
7711					
ENSMUSG00000003	-1.15	0.02	Down-regulated	21954	troponin I, cardiac 3
5458					
ENSMUSG00000009	-1.16	0.02	Down-regulated	NA	NA
2600					
ENSMUSG00000009	-1.17	0.04	Down-regulated	NA	NA
8813					
ENSMUSG00000002	-1.20	0.03	Down-regulated	75083	ubiquitin specific peptidase 50
7364					
ENSMUSG00000011	-1.21	0.02	Down-regulated	NA	NA
1987					

ENSMUSG00000004	-1.23	0.04	Down-regulated	17349	myeloid leukemia factor 1
8416					
ENSMUSG00000006	-1.25	0.04	Down-regulated	NA	NA
4796					
ENSMUSG00000003	-1.25	0.03	Down-regulated	109660	chymotrypsin-like
1896					
ENSMUSG00000003	-1.31	0.01	Down-regulated	140476	stereocilin
3498					
ENSMUSG00000008	-1.31	0.03	Down-regulated	NA	NA
5274					
ENSMUSG00000010	-1.32	0.00	Down-regulated	NA	NA
6361					
ENSMUSG00000004	-1.33	0.03	Down-regulated	271844	phospholipase A2, group IVF
6971					
ENSMUSG00000009	-1.34	0.00	Down-regulated	NA	NA
2384					
ENSMUSG00000010	-1.39	0.03	Down-regulated	NA	NA
4159					
ENSMUSG00000011	-1.43	0.04	Down-regulated	NA	NA
2030					

ENSMUSG00000010 6291	-1.45	0.04	Down-regulated	NA	NA
ENSMUSG00000010 9424	-1.47	0.04	Down-regulated	NA	NA
ENSMUSG00000004 4681	-1.48	0.04	Down-regulated	269637	canopy FGF signaling regulator 1
ENSMUSG00000006 3851	-1.50	0.01	Down-regulated	76072	ring finger protein 183
ENSMUSG00000011 1729	-1.50	0.03	Down-regulated	NA	NA
ENSMUSG00000001 3338	-1.50	0.01	Down-regulated	74562	fer-1-like 4 (C. elegans)
ENSMUSG00000007 6522	-1.50	0.01	Down-regulated	381778	immunoglobulin kappa variable 16-104
ENSMUSG00000008 6591	-1.51	0.03	Down-regulated	NA	NA
ENSMUSG00000009 7335	-1.56	0.05	Down-regulated	NA	NA
ENSMUSG00000006 5715	-1.56	0.04	Down-regulated	100302731	small nucleolar RNA, C/D box 7

ENSMUSG00000009 9270	-1.57	0.02	Down-regulated	NA	NA
ENSMUSG00000007 4796	-1.63	0.02	Down-regulated	269356	solute carrier family 4, sodium bicarbonate transporter-like, member 11
ENSMUSG00000003 8598	-1.63	0.00	Down-regulated	100155	shortage in chiasmata 1
ENSMUSG00000005 3714	-1.67	0.00	Down-regulated	654804	RIKEN cDNA 4732471J01 gene
ENSMUSG00000004 7117	-1.68	0.04	Down-regulated	271144	ankyrin repeat and death domain containing 1B
ENSMUSG00000003 1549	-1.68	0.04	Down-regulated	209176	indoleamine 2,3-dioxygenase 2
ENSMUSG00000010 4719	-1.69	0.03	Down-regulated	NA	NA
ENSMUSG00000004 3029	-1.69	0.04	Down-regulated	246788	transient receptor potential cation channel, subfamily V, member 3
ENSMUSG00000003 7801	-1.70	0.04	Down-regulated	78250	IQ motif containing H
ENSMUSG00000009 7282	-1.73	0.03	Down-regulated	NA	NA

ENSMUSG00000008 6191	-1.75	0.05	Down-regulated	432396	zinc finger protein 652, opposite strand
ENSMUSG00000010 9812	-1.75	0.02	Down-regulated	NA	NA
ENSMUSG00000005 4031	-1.76	0.02	Down-regulated	NA	NA
ENSMUSG00000000 5364	-1.77	0.03	Down-regulated	16192	interleukin 5 receptor, alpha
ENSMUSG00000002 5129	-1.79	0.05	Down-regulated	68701	protein phosphatase 1, regulatory subunit 27
ENSMUSG00000011 3425	-1.88	0.01	Down-regulated	NA	NA
ENSMUSG00000007 4623	-1.90	0.01	Down-regulated	329554	predicted gene 826
ENSMUSG00000010 2331	-1.91	0.02	Down-regulated	NA	NA
ENSMUSG00000005 4453	-1.91	0.05	Down-regulated	236643	synaptotagmin-like 5
ENSMUSG00000002 7702	-1.94	0.04	Down-regulated	71827	leucine rich repeat containing 34

ENSMUSG00000008 5773	-1.99	0.01	Down-regulated	NA	NA	
ENSMUSG00000007 8370	-2.01	0.03	Down-regulated	622339	glyceraldehyde-3-phosphate pseudogene	dehydrogenase
ENSMUSG00000010 0775	-2.03	0.00	Down-regulated	NA	NA	
ENSMUSG00000011 4279	-2.07	0.05	Down-regulated	319186	H2B clustered histone 14	
ENSMUSG00000009 4787	-2.09	0.04	Down-regulated	NA	NA	
ENSMUSG00000004 3410	-2.10	0.04	Down-regulated	330149	HFM1, ATP-dependent DNA helicase homolog	
ENSMUSG00000011 1904	-2.11	0.04	Down-regulated	NA	NA	
ENSMUSG00000010 3693	-2.14	0.01	Down-regulated	NA	NA	
ENSMUSG00000005 0092	-2.19	0.00	Down-regulated	20756	small proline-rich protein 2B	
ENSMUSG00000010 7846	-2.24	0.01	Down-regulated	NA	NA	

ENSMUSG00000007 9773	-2.26	0.03	Down-regulated	100862220	uncharacterized LOC100862220
ENSMUSG00000009 7818	-2.40	0.02	Down-regulated	NA	NA
ENSMUSG00000008 2746	-2.45	0.03	Down-regulated	30964	ribosomal protein S12, pseudogene 1
ENSMUSG00000007 6598	-2.46	0.01	Down-regulated	108005	immunoglobulin kappa variable 3-7
ENSMUSG00000010 2808	-2.47	0.04	Down-regulated	NA	NA
ENSMUSG00000004 4041	-2.48	0.01	Down-regulated	16663	keratin 13
ENSMUSG00000008 4782	-2.49	0.03	Down-regulated	670833	predicted gene 11213
ENSMUSG00000009 2827	-2.50	0.03	Down-regulated	100526556	microRNA 3091
ENSMUSG00000010 0625	-2.53	0.02	Down-regulated	71867	RIKEN cDNA 1700016G22 gene
ENSMUSG00000010 8321	-2.55	0.02	Down-regulated	NA	NA

ENSMUSG00000010	-2.63	0.01	Down-regulated	NA	NA
8617					
ENSMUSG00000008	-2.65	0.04	Down-regulated	102640562	expressed sequence BB218582
5218					
ENSMUSG00000010	-2.73	0.04	Down-regulated	NA	NA
5698					
ENSMUSG00000004	-2.76	0.02	Down-regulated	194219	schlafen like 1
7518					
ENSMUSG00000002	-3.22	0.02	Down-regulated	75828	HORMA domain containing 2
0419					
ENSMUSG00000010	-3.23	0.03	Down-regulated	NA	NA
2852					
ENSMUSG00000009	-3.32	0.02	Down-regulated	NA	NA
4815					
ENSMUSG00000011	-3.32	0.05	Down-regulated	NA	NA
1292					
ENSMUSG00000007	-3.35	0.04	Down-regulated	NA	NA
4603					
ENSMUSG00000007	-3.42	0.00	Down-regulated	380795	Immunoglobulin heavy constant gamma 3
6615					

ENSMUSG00000010	-3.52	0.02	Down-regulated	NA	NA
2892					
ENSMUSG00000008	-3.54	0.03	Down-regulated	NA	NA
6586					
ENSMUSG00000011	-3.75	0.02	Down-regulated	115486941	60S ribosomal protein L37 pseudogene
0044					
ENSMUSG00000010	-3.83	0.01	Down-regulated	NA	NA
2819					
ENSMUSG00000008	-4.33	0.03	Down-regulated	NA	NA
4783					