



**Table S1.** Complete list of DEGs found between control mRPE cells and treated with 15  $\mu$ M 7KCh. Positive Log2FC represents upregulated genes while negative Log2FC represents downregulated genes.

Ensemble ID	Gene ID	Log2FC	FDR	Gene description
ENSMMUG00000001226	<i>HMGC1</i>	-3.10	2.56E-51	3-hydroxy-3-methylglutaryl-CoA synthase 1
ENSMMUG00000003535	<i>SQLE</i>	-2.11	1.36E-44	squalene epoxidase
ENSMMUG00000022329	<i>LSS</i>	-2.08	6.49E-44	lanosterol synthase
ENSMMUG00000039955	<i>MSMO1</i>	-2.20	2.28E-42	methylsterol monooxygenase 1
ENSMMUG00000017115	<i>IDI1</i>	-2.27	5.27E-40	isopentenyl-diphosphate delta isomerase 1
ENSMMUG00000014326	<i>MVD</i>	-2.40	4.33E-37	mevalonate diphosphate decarboxylase
ENSMMUG00000038190	<i>CYP51A1</i>	-1.85	4.36E-30	lanosterol 14-alpha demethylase
ENSMMUG00000044056	<i>EBP</i>	-1.62	5.87E-28	EBP cholesterol delta-isomerase
ENSMMUG00000047977	<i>INSIG1</i>	-2.09	9.80E-28	insulin induced gene 1
ENSMMUG00000019211	<i>FDFT1</i>	-1.45	1.38E-26	farnesyl-diphosphate farnesyltransferase 1
ENSMMUG00000018058	<i>ABCG1</i>	2.95	9.60E-21	ATP binding cassette subfamily G member 1
ENSMMUG00000021577	<i>DHCR24</i>	-1.58	1.58E-20	24-dehydrocholesterol reductase
ENSMMUG00000023144	<i>FDPS</i>	-1.25	2.49E-20	farnesyl diphosphate synthase
ENSMMUG00000023089	<i>PHGDH</i>	2.90	6.43E-20	phosphoglycerate dehydrogenase
ENSMMUG00000016698	<i>PNPLA3</i>	-1.48	1.75E-19	patatin like phospholipase domain containing 3
ENSMMUG00000000006	<i>NEURL3</i>	3.72	6.12E-19	neuralized E3 ubiquitin protein ligase 3
ENSMMUG00000017932	<i>HMGR</i>	-1.65	3.23E-17	3-hydroxy-3-methylglutaryl-CoA reductase
ENSMMUG00000006139	<i>ACSS2</i>	-1.31	3.23E-17	acyl-CoA synthetase short chain family member 2
ENSMMUG00000011845	<i>HK2</i>	1.70	8.68E-17	hexokinase 2
ENSMMUG00000013176	<i>NSDHL</i>	-1.18	1.82E-16	NAD(P) dependent steroid dehydrogenase-like
ENSMMUG00000014520	<i>ITIH1</i>	-3.68	6.68E-16	inter-alpha-trypsin inhibitor heavy chain 1
ENSMMUG00000011976	<i>DHCR7</i>	-1.48	8.29E-15	7-dehydrocholesterol reductase
ENSMMUG00000001618	<i>ATP6V0D2</i>	6.06	1.44E-14	ATPase H <sup>+</sup> transporting V0 subunit d2
ENSMMUG00000020608	<i>ABCA1</i>	1.83	1.91E-14	ATP binding cassette subfamily A member 1
ENSMMUG00000003288	<i>GPT2</i>	1.61	9.13E-14	glutamic--pyruvic transaminase 2
ENSMMUG00000018773	<i>TM7SF2</i>	-1.30	5.37E-13	transmembrane 7 superfamily member 2
ENSMMUG00000009332	<i>HSD17B7</i>	-1.08	7.85E-12	3-keto-steroid reductase
ENSMMUG00000018907	<i>ERFE</i>	1.85	1.35E-10	Erythroferrone
ENSMMUG00000011245	<i>CRISPLD2</i>	-1.23	2.09E-10	cysteine rich secretory protein LCCL domain containing 2
ENSMMUG00000011868	<i>PSAT1</i>	3.00	2.27E-10	phosphoserine aminotransferase 1
ENSMMUG00000039289	<i>SC5D</i>	-1.41	4.75E-10	sterol-C5-desaturase
ENSMMUG00000008140	<i>SGK1</i>	1.31	1.28E-09	serum/glucocorticoid regulated kinase 1
ENSMMUG00000019653	<i>SLC7A8</i>	-1.05	1.69E-09	solute carrier family 7 member 8
ENSMMUG00000005742	<i>CDCP1</i>	1.92	5.05E-09	CUB domain containing protein 1
ENSMMUG00000021806	<i>VGLL4</i>	-1.00	7.59E-09	vestigial like family member 4
ENSMMUG00000000484	<i>C2CD4C</i>	-2.28	1.04E-08	C2 calcium dependent domain containing 4
ENSMMUG00000012185	<i>ATF3</i>	3.16	1.58E-08	activating transcription factor 3
ENSMMUG00000003273	<i>BCAM</i>	-1.16	1.94E-08	basal cell adhesion molecule
ENSMMUG00000012811	<i>FASN</i>	-1.17	2.21E-08	fatty acid synthase
ENSMMUG00000000567	<i>BAMBI</i>	-1.01	4.50E-08	MP and activin membrane bound inhibitor
ENSMMUG00000011663	<i>MVK</i>	-1.13	4.66E-08	mevalonate kinase
ENSMMUG00000018931	<i>STARD4</i>	-1.28	7.19E-08	StAR related lipid transfer domain containing 4
ENSMMUG00000008563	<i>ACLY</i>	-0.76	7.19E-08	ATP citrate lyase
ENSMMUG00000004504	<i>KITLG</i>	3.19	9.75E-08	KIT ligand

ENSMMUG00000000327	<i>FADS2</i>	-1.02	1.05E-07	fatty acid desaturase 2
ENSMMUG00000013610	<i>ETV5</i>	1.42	1.33E-07	ETS variant transcription factor 5
ENSMMUG00000009289	<i>CBS</i>	1.26	1.76E-07	cystathionine beta-synthase
ENSMMUG00000002605	<i>UCP2</i>	-1.00	1.84E-07	uncoupling protein 2
ENSMMUG00000013507	<i>LAD1</i>	-1.26	2.26E-07	ladinin 1
ENSMMUG00000010817	<i>SCD</i>	-0.93	2.26E-07	stearoyl-CoA desaturase
ENSMMUG00000009852	<i>CASP1</i>	1.40	3.21E-07	caspase-1
ENSMMUG00000019157	<i>CTH</i>	2.31	3.62E-07	cystathionine gamma-lyase
ENSMMUG00000019326	<i>ASNS</i>	1.88	3.62E-07	asparagine synthetase (glutamine-hydrolyzing)
ENSMMUG00000011909	<i>RBP3</i>	-1.16	6.97E-07	retinol binding protein 3
ENSMMUG00000041958	<i>BHLHA15</i>	3.97	7.70E-07	basic helix-loop-helix family member a15
ENSMMUG00000009022	<i>GDPD5</i>	-1.09	8.06E-07	glycerophosphodiester phosphodiesterase domain containing 5
ENSMMUG00000009739	<i>MTHFD2</i>	1.41	9.38E-07	methylenetetrahydrofolate dehydrogenase 2, methenyltetrahydrofolate cyclohydrolase
ENSMMUG00000038480	<i>EIF4EBP1</i>	1.42	1.26E-06	eukaryotic translation initiation factor 4E binding protein 1
ENSMMUG00000020322	<i>ALDOC</i>	-1.09	1.32E-06	Aldolase, fructose-bisphosphate C
ENSMMUG00000005947	<i>SAMD11</i>	-1.14	1.53E-06	sterile alpha motif domain containing 11
ENSMMUG00000006269	<i>CSTA</i>	2.21	2.31E-06	cystatin A
ENSMMUG00000019996	<i>ENC1</i>	-0.92	2.60E-06	ectodermal-neural cortex 1
ENSMMUG00000006971	<i>FKBP11</i>	0.99	3.06E-06	FKBP prolyl isomerase 11
ENSMMUG00000007090	<i>DOK5</i>	1.22	3.48E-06	docking protein 5
ENSMMUG00000015474	<i>MYLIP</i>	0.84	4.52E-06	myosin regulatory light chain interacting protein
ENSMMUG00000044653	<i>SLC38A10</i>	-0.87	5.66E-06	solute carrier family 38 member 10
ENSMMUG00000003292	<i>CLDN4</i>	2.75	5.66E-06	claudin 4
ENSMMUG00000009084	<i>TM6SF1</i>	2.16	7.20E-06	transmembrane 6 superfamily member 1
ENSMMUG00000011593	<i>RGCC</i>	3.60	8.50E-06	regulator of cell cycle
ENSMMUG00000001119	<i>UTS2R</i>	-2.21	8.53E-06	urotensin 2 receptor
ENSMMUG00000040573	<i>PMAIP1</i>	1.30	9.07E-06	phorbol-12-myristate-13-acetate-induced protein 1
ENSMMUG00000017561	<i>SLC43A2</i>	-1.31	9.79E-06	solute carrier family 43 member 2
ENSMMUG00000014176	<i>CYTIP</i>	1.16	1.03E-05	cytohesin 1 interacting protein
ENSMMUG00000022893	<i>VWF</i>	-3.52	1.21E-05	von Willebrand factor
ENSMMUG00000007037	<i>UPP1</i>	2.05	1.28E-05	uridine phosphorylase 1
ENSMMUG00000012064	<i>C7H14orf1</i>	-0.97	1.66E-05	ergosterol biosynthesis 28 homolog
ENSMMUG00000010927	<i>TNFAIP6</i>	2.26	1.85E-05	TNF alpha induced protein 6
ENSMMUG00000013798	<i>FADS1</i>	-0.82	1.86E-05	fatty acid desaturase 1
ENSMMUG00000005217	<i>HSPA5</i>	1.36	1.94E-05	heat shock protein family A (Hsp70) member 5
ENSMMUG00000014542	<i>CHAC1</i>	2.46	1.97E-05	ChaC glutathione specific gamma-glutamylcystotransferase 1
ENSMMUG00000038425	<i>GADD45A</i>	0.70	1.99E-05	growth arrest and DNA damage inducible alpha
ENSMMUG00000012718	<i>DPYSL2</i>	-0.68	2.17E-05	dihydropyrimidinase like 2
ENSMMUG00000010601	<i>PRG2</i>	2.24	2.22E-05	proteoglycan 2, pro-eosinophil major basic protein
ENSMMUG00000017169	<i>FAM107B</i>	1.23	2.77E-05	family with sequence similarity 107 member B
ENSMMUG00000009223	<i>PPP1R15A</i>	1.56	2.77E-05	protein phosphatase 1 regulatory subunit 15A
ENSMMUG00000004771	<i>CXCL14</i>	-1.03	3.50E-05	C-X-C motif chemokine ligand 14
ENSMMUG00000019992	<i>GRB10</i>	1.64	3.53E-05	growth factor receptor bound protein 10
ENSMMUG00000017327	<i>SLAMF7</i>	2.79	3.60E-05	SLAM family member 7
ENSMMUG00000017916	<i>LIPE</i>	-0.91	3.88E-05	lipase E, hormone sensitive type
ENSMMUG00000009349	<i>ACACA</i>	-0.69	4.43E-05	acetyl-CoA carboxylase alpha
ENSMMUG00000019777	<i>IL1A</i>	2.85	4.87E-05	interleukin 1 alpha
ENSMMUG00000016230	<i>TMEM63B</i>	-0.73	4.88E-05	transmembrane protein 63B
ENSMMUG00000041773	<i>MYC</i>	0.78	4.90E-05	MYC proto-oncogene, bHLH transcription factor
ENSMMUG00000014601	<i>FABP5</i>	0.80	4.90E-05	fatty acid binding protein 5

ENSMMUG00000017470	<i>THRSP</i>	-2.46	5.41E-05	thyroid hormone responsive
ENSMMUG00000007027	<i>ACTC1</i>	-1.55	5.62E-05	actin alpha cardiac muscle 1
ENSMMUG00000020806	<i>ABCC9</i>	2.48	6.32E-05	ATP binding cassette subfamily C member 9
ENSMMUG00000023801	<i>LCN2</i>	4.72	6.55E-05	lipocalin 2
ENSMMUG00000023643	<i>NFKBIB</i>	1.03	7.77E-05	NFKB inhibitor beta
ENSMMUG00000015851	<i>SFRP2</i>	-0.69	8.87E-05	secreted frizzled related protein 2
ENSMMUG00000028717	<i>PTPRH</i>	1.22	9.02E-05	protein tyrosine phosphatase receptor type H
ENSMMUG00000003874	<i>CTSD</i>	-0.71	9.28E-05	cathepsin D
ENSMMUG00000004628	<i>IARS</i>	0.72	9.60E-05	isoleucyl-tRNA synthetase 1
ENSMMUG00000015314	<i>TSPAN15</i>	-0.66	1.08E-04	tetraspanin 15
ENSMMUG00000013589	<i>ACBD4</i>	-0.74	1.31E-04	acyl-CoA binding domain containing 4
ENSMMUG00000001048	<i>EAF2</i>	1.11	1.44E-04	ELL associated factor 2
ENSMMUG00000013407	<i>ADAMTS1</i>	0.78	1.65E-04	ADAM metalloproteinase with thrombospondin type 1 motif 1
ENSMMUG00000047896	<i>TP53INP1</i>	-0.80	1.69E-04	tumor protein p53 inducible nuclear protein 1
ENSMMUG00000007659	<i>XPOT</i>	0.77	1.71E-04	exportin for Trna
ENSMMUG00000006127	<i>CEBPG</i>	1.09	1.71E-04	CCAAT enhancer binding protein gamma
ENSMMUG00000015001	<i>LIMK2</i>	-0.72	1.72E-04	LIM domain kinase 2
ENSMMUG00000004719	<i>GARS</i>	1.02	1.75E-04	glycyl-tRNA synthetase 1
ENSMMUG00000004706	<i>TBL2</i>	0.85	1.75E-04	transducin beta like 2
ENSMMUG00000042454	<i>PHLDA1</i>	1.15	1.75E-04	pleckstrin homology like domain family A member 1
ENSMMUG00000009093	<i>IGSF9</i>	-0.80	1.75E-04	immunoglobulin superfamily member 9
ENSMMUG00000021120	<i>MAGED1</i>	-0.80	1.83E-04	MAGE family member D1
ENSMMUG00000010189	<i>TMEM71</i>	2.87	1.83E-04	transmembrane protein 71
ENSMMUG00000005618	<i>TNNC1</i>	-0.79	1.83E-04	troponin C1, slow skeletal and cardiac type
ENSMMUG00000010164	<i>VGF</i>	1.71	1.88E-04	VGF nerve growth factor inducible
ENSMMUG00000019945	<i>FGFR3</i>	-1.18	1.95E-04	fibroblast growth factor receptor 3
ENSMMUG00000043586	<i>ID3</i>	-1.05	1.97E-04	inhibitor of DNA binding 3
ENSMMUG00000040085	<i>SLC33A1</i>	0.79	1.99E-04	solute carrier family 33 member 1
ENSMMUG00000003357	<i>SREBF2</i>	-0.67	2.03E-04	sterol regulatory element binding transcription factor 2
ENSMMUG00000014072	<i>IER3</i>	0.68	2.08E-04	immediate early response 3
ENSMMUG00000038454	<i>H2AFZ</i>	0.61	2.15E-04	H2A,Z variant histone 1
ENSMMUG00000009247	<i>OTUD1</i>	1.16	2.18E-04	OTU deubiquitinase 1
ENSMMUG00000000208	<i>NRG1</i>	1.45	2.20E-04	neuregulin 1
ENSMMUG00000012889	<i>PCYT2</i>	-0.65	2.34E-04	phosphate cytidylyltransferase 2, ethanolamine
ENSMMUG00000004321	<i>LAMA3</i>	-0.90	2.37E-04	laminin subunit alpha 3
ENSMMUG00000013290	<i>LURAP1L</i>	1.34	2.37E-04	leucine rich adaptor protein 1 like
ENSMMUG00000016995	<i>LUM</i>	-1.74	2.64E-04	lumican
ENSMMUG00000041372	<i>CD24</i>	-1.08	2.77E-04	CD24 molecule
ENSMMUG00000006088	<i>KLF4</i>	2.71	2.77E-04	KLF transcription factor 4
ENSMMUG00000018653	<i>KRT19</i>	-0.95	3.01E-04	keratin 19
ENSMMUG00000017822	<i>PPL</i>	-0.70	3.06E-04	periplakin
ENSMMUG00000019514	<i>UAP1</i>	1.23	3.06E-04	UDP-N-acetylglucosamine pyrophosphorylase 1
ENSMMUG00000013865	<i>WARS</i>	0.92	3.33E-04	tryptophanyl-tRNA synthetase
ENSMMUG00000019849	<i>BMP2</i>	1.34	3.37E-04	bone morphogenetic protein 2
ENSMMUG00000047534	<i>ELOVL6</i>	-1.12	3.39E-04	ELOVL fatty acid elongase 6
ENSMMUG00000047391	<i>SRXN1</i>	1.41	3.47E-04	sulfiredoxin 1
ENSMMUG00000032072	<i>N/A</i>	1.28	3.47E-04	N/A
ENSMMUG00000045219	<i>CEBPB</i>	1.44	3.54E-04	CCAAT enhancer binding protein beta
ENSMMUG00000013416	<i>PPP2R2C</i>	1.16	3.58E-04	protein phosphatase 2 regulatory subunit Bgamma
ENSMMUG00000029123	<i>URB1</i>	0.88	3.61E-04	URB1 ribosome biogenesis homolog
ENSMMUG00000010295	<i>N/A</i>	1.12	3.61E-04	N/A
ENSMMUG00000021653	<i>AARS</i>	0.88	3.75E-04	alanyl-tRNA synthetase 1

ENSMMUG00000007593	<i>PHKA1</i>	0.70	3.78E-04	phosphorylase kinase regulatory subunit alpha 1
ENSMMUG00000018014	<i>MACO1</i>	0.69	3.81E-04	macoilin 1
ENSMMUG00000003744	<i>SLC44A2</i>	-0.66	3.84E-04	solute carrier family 44 member 2
ENSMMUG00000040398	<i>N/A</i>	1.34	3.87E-04	N/A
ENSMMUG00000012644	<i>OSMR</i>	0.89	4.19E-04	oncostatin M receptor
ENSMMUG00000010662	<i>SLC16A9</i>	-1.37	4.19E-04	solute carrier family 16 member 9
ENSMMUG00000001609	<i>AKAP1</i>	0.68	4.19E-04	A-kinase anchoring protein 1
ENSMMUG00000021785	<i>SHMT2</i>	0.96	4.19E-04	serine hydroxymethyltransferase 2
ENSMMUG00000008911	<i>ALG2</i>	0.68	4.19E-04	ALG2 alpha-1,3/1,6-mannosyltransferase
ENSMMUG00000021286	<i>COL3A1</i>	-0.73	4.36E-04	collagen type III alpha 1 chain
ENSMMUG00000017215	<i>TM4SF1</i>	-0.66	4.61E-04	transmembrane 4 L six family member 1
ENSMMUG00000016848	<i>SLCO4A1</i>	1.00	4.81E-04	solute carrier organic anion transporter family member 4A1
ENSMMUG00000008918	<i>SRPRB</i>	0.82	4.86E-04	SRP receptor subunit beta
ENSMMUG00000005875	<i>LRATD2</i>	-0.77	4.89E-04	LRAT domain containing 2
ENSMMUG00000020707	<i>LONP1</i>	0.65	4.89E-04	lon peptidase 1, mitochondria
ENSMMUG00000047109	<i>HSPA9</i>	0.67	4.89E-04	heat shock protein family A (Hsp70) member 9
ENSMMUG00000040957	<i>SPSB1</i>	1.39	4.89E-04	splA/ryanodine receptor domain and SOCS box containing 1
ENSMMUG00000002052	<i>N/A</i>	-0.61	4.89E-04	N/A
ENSMMUG00000009914	<i>SMAD9</i>	-0.99	4.91E-04	SMAD family member 9
ENSMMUG00000011038	<i>FZD2</i>	-0.68	4.95E-04	frizzled class receptor 2
ENSMMUG00000016387	<i>ADM</i>	0.87	4.96E-04	adrenomedullin
ENSMMUG00000020558	<i>STK38</i>	-0.71	4.96E-04	serine/threonine kinase 38
ENSMMUG00000004600	<i>RCAN1</i>	0.89	5.67E-04	regulator of calcineurin 1
ENSMMUG00000016294	<i>SYCP2</i>	1.09	5.67E-04	synaptonemal complex protein 2
ENSMMUG00000003582	<i>MXRA8</i>	-0.69	5.92E-04	matrix remodeling associated 8
ENSMMUG00000014818	<i>MYLK</i>	-0.78	5.92E-04	myosin light chain kinase
ENSMMUG00000003280	<i>HBEGF</i>	0.84	5.95E-04	heparin binding EGF like growth factor
ENSMMUG00000023265	<i>AKAP12</i>	1.18	5.96E-04	A-kinase anchoring protein 12
ENSMMUG00000022163	<i>SLC1A5</i>	1.51	6.12E-04	solute carrier family 1 member 5
ENSMMUG00000003585	<i>ALG5</i>	0.69	6.75E-04	ALG5 dolichyl-phosphate beta-glucosyltransferase
ENSMMUG00000038006	<i>OTX2</i>	-0.68	7.37E-04	orthodenticle homeobox 2
ENSMMUG00000022481	<i>CYP1A1</i>	2.43	8.03E-04	cytochrome P450 family 1 subfamily A member 1
ENSMMUG00000004935	<i>PFKP</i>	0.69	8.40E-04	phosphofructokinase, platelet
ENSMMUG00000032156	<i>C3AR1</i>	1.27	8.49E-04	complement C3a receptor 1
ENSMMUG00000039317	<i>CREB5</i>	1.75	8.52E-04	cAMP responsive element binding protein 5
ENSMMUG00000020839	<i>SEPHS2</i>	0.94	8.52E-04	selenophosphate synthetase 2
ENSMMUG00000019570	<i>N/A</i>	-1.12	8.59E-04	N/A
ENSMMUG00000019268	<i>CD82</i>	-0.70	8.61E-04	CD82 molecule
ENSMMUG00000008890	<i>NR1D1</i>	1.46	8.71E-04	nuclear receptor subfamily 1 group D member 1
ENSMMUG00000002933	<i>GTPBP2</i>	1.05	8.71E-04	GTP binding protein 2
ENSMMUG00000007428	<i>GAS6</i>	-0.68	8.80E-04	growth arrest specific 6
ENSMMUG00000006156	<i>TRPM3</i>	-0.93	9.20E-04	transient receptor potential cation channel subfamily M member 3
ENSMMUG00000021837	<i>SARS</i>	0.96	9.21E-04	seryl-tRNA synthetase 1
ENSMMUG00000008134	<i>DNAJA3</i>	0.69	9.64E-04	DnaJ heat shock protein family (Hsp40) member A3
ENSMMUG00000016938	<i>DFNA5</i>	0.95	9.87E-04	Non-syndromic hearing impairment protein 5 isoform A
ENSMMUG00000019820	<i>SH3TC2</i>	-0.82	9.88E-04	SH3 domain and tetratricopeptide repeats 2
ENSMMUG00000001819	<i>LRRC17</i>	-0.74	9.93E-04	leucine rich repeat containing 17
ENSMMUG00000012432	<i>ISG15</i>	1.10	9.93E-04	ISG15 ubiquitin like modifier
ENSMMUG00000013303	<i>LRRC4</i>	-0.98	1.05E-03	leucine rich repeat containing 4
ENSMMUG00000015436	<i>ALDH1A1</i>	-0.70	1.05E-03	aldehyde dehydrogenase 1 family member A1

ENSMMUG00000008334	<i>GPR1</i>	-0.78	1.05E-03	chemerin chemokine-like receptor 2
ENSMMUG00000017427	<i>ATP1A3</i>	0.98	1.10E-03	ATPase Na <sup>+</sup> /K <sup>+</sup> transporting subunit alpha 3
ENSMMUG00000000664	<i>RRAS2</i>	0.74	1.14E-03	RAS related 2
ENSMMUG00000013059	<i>GPR180</i>	0.88	1.21E-03	G protein-coupled receptor 180
ENSMMUG00000019873	<i>E2F7</i>	0.69	1.30E-03	E2F transcription factor 7
ENSMMUG00000022846	<i>ST6GALNAC4</i>	0.84	1.30E-03	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4
ENSMMUG00000015917	<i>CYP4B1</i>	-0.86	1.30E-03	cytochrome P450 family 4 subfamily B member 1
ENSMMUG00000012672	<i>MYO10</i>	-0.53	1.32E-03	myosin X
ENSMMUG00000001132	<i>CDKN2B</i>	-0.74	1.33E-03	cyclin dependent kinase inhibitor 2B
ENSMMUG00000015185	<i>ERN1</i>	0.83	1.33E-03	endoplasmic reticulum to nucleus signaling 1
ENSMMUG00000030891	<i>HYOU1</i>	0.81	1.40E-03	hypoxia up-regulated 1
ENSMMUG00000003896	<i>TCF4</i>	-0.68	1.42E-03	transcription factor 4(
ENSMMUG00000030838	<i>RAVER2</i>	0.83	1.42E-03	ribonucleoprotein, PTB binding 2
ENSMMUG00000010203	<i>ARHGAP6</i>	-0.62	1.42E-03	Rho GTPase activating protein 6
ENSMMUG00000018565	<i>PTPN6</i>	-0.80	1.42E-03	protein tyrosine phosphatase non-receptor type 6
ENSMMUG00000012001	<i>GTF2A1L</i>	-0.67	1.42E-03	general transcription factor IIA subunit 1 like
ENSMMUG00000046124	<i>SLC2A3</i>	0.86	1.45E-03	solute carrier family 2 (facilitated glucose transporter), member 3
ENSMMUG00000011277	<i>MARS</i>	0.78	1.45E-03	methionyl-tRNA synthetase 1
ENSMMUG00000012737	<i>PLXND1</i>	-0.71	1.56E-03	plexin D1
ENSMMUG00000028737	<i>FGF21</i>	2.60	1.64E-03	fibroblast growth factor 21
ENSMMUG00000007831	<i>HSPD1</i>	0.60	1.65E-03	heat shock protein family D (Hsp60) member 1
ENSMMUG00000010489	<i>PTH1H</i>	2.15	1.65E-03	parathyroid hormone like hormone
ENSMMUG00000010531	<i>ARHGAP1</i>	-0.57	1.65E-03	Rho GTPase activating protein 1
ENSMMUG00000021771	<i>UBA5</i>	0.63	1.65E-03	ubiquitin like modifier activating enzyme 5
ENSMMUG00000048558	<i>MXD4</i>	-0.56	1.88E-03	MAX dimerization protein 4
ENSMMUG00000015817	<i>TMTC1</i>	-0.74	1.89E-03	transmembrane O-mannosyltransferase targeting cadherins 1
ENSMMUG00000022921	<i>SLC2A12</i>	-0.93	1.89E-03	solute carrier family 2 member 12
ENSMMUG00000012223	<i>BCAT1</i>	1.43	1.90E-03	branched chain amino acid transaminase 1
ENSMMUG00000012069	<i>TGFB3</i>	-0.80	1.91E-03	transforming growth factor beta 3
ENSMMUG00000019072	<i>FAM124A</i>	-0.79	1.92E-03	family with sequence similarity 124 member A
ENSMMUG00000001480	<i>DAAM2</i>	-0.55	1.92E-03	dishevelled associated activator of morphogenesis 2
ENSMMUG00000023257	<i>NFIL3</i>	1.55	1.96E-03	nuclear factor, interleukin 3 regulated
ENSMMUG00000015370	<i>PLXDC2</i>	-0.70	2.02E-03	plexin domain containing 2
ENSMMUG00000048779	<i>CYBRD1</i>	-0.57	2.08E-03	Cytochrome b reductase 1
ENSMMUG00000046195	<i>MIS12</i>	0.64	2.13E-03	MIS12 kinetochore complex component
ENSMMUG00000016399	<i>RGL1</i>	-0.73	2.13E-03	ral guanine nucleotide dissociation stimulator like 1
ENSMMUG00000024570	<i>LOC114677864</i>	1.60	2.14E-03	small nucleolar RNA SNORA70
ENSMMUG00000041399	<i>UBAP1L</i>	1.38	2.16E-03	ubiquitin associated protein 1 like
ENSMMUG00000007273	<i>DNM3</i>	-1.42	2.21E-03	dynamitin 3
ENSMMUG00000011719	<i>SERPINB9</i>	-0.84	2.21E-03	serpin family B member 9
ENSMMUG00000005670	<i>RPS6KA2</i>	0.95	2.22E-03	ribosomal protein S6 kinase A2
ENSMMUG00000048302	<i>AGFG2</i>	-0.79	2.23E-03	ArfGAP with FG repeats 2
ENSMMUG00000006855	<i>TLR4</i>	0.96	2.31E-03	toll like receptor 4
ENSMMUG00000009112	<i>ACOT2</i>	-0.67	2.31E-03	acyl-CoA thioesterase 2
ENSMMUG00000039441	<i>MAB21L2</i>	-0.67	2.35E-03	mab-21 like 2
ENSMMUG00000009063	<i>ETS2</i>	1.01	2.36E-03	ETS proto-oncogene 2, transcription factor
ENSMMUG00000009097	<i>MMP11</i>	-0.77	2.37E-03	matrix metalloproteinase 11
ENSMMUG00000017638	<i>EMP1</i>	0.75	2.44E-03	epithelial membrane protein 1
ENSMMUG00000022581	<i>KCNMB1</i>	-0.69	2.44E-03	potassium calcium-activated channel subfamily M regulatory beta subunit 1
ENSMMUG00000042787	<i>N/A</i>	2.35	2.51E-03	N/A

ENSMMUG00000013797	<i>GFPT1</i>	0.91	2.52E-03	glutamine--fructose-6-phosphate transaminase 1
ENSMMUG00000018116	<i>JAG1</i>	1.32	2.55E-03	jagged canonical Notch ligand 1
ENSMMUG00000017631	<i>GPRC5A</i>	0.87	2.61E-03	G protein-coupled receptor class C group 5 member A
ENSMMUG00000010981	<i>SLC2A6</i>	-0.94	2.65E-03	solute carrier family 2 member 6
ENSMMUG00000000265	<i>ADAMTS9</i>	1.41	2.67E-03	ADAM metalloproteinase with thrombospondin type 1 motif 9
ENSMMUG00000016666	<i>CHRD1</i>	-0.63	2.67E-03	chordin like 1
ENSMMUG00000045506	<i>MAFF</i>	1.47	2.67E-03	MAF bZIP transcription factor F
ENSMMUG00000005994	<i>ST6GALNAC5</i>	-0.86	2.70E-03	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 5
ENSMMUG00000014219	<i>OSGIN1</i>	1.76	2.70E-03	oxidative stress induced growth inhibitor 1
ENSMMUG00000019083	<i>TFAP4</i>	0.74	2.74E-03	transcription factor AP-4
ENSMMUG00000044729	<i>SLC9B2</i>	0.65	2.74E-03	solute carrier family 9 member B2
ENSMMUG00000031439	<i>FBXL2</i>	-0.63	2.80E-03	F-box and leucine rich repeat protein 2
ENSMMUG00000006187	<i>ANGPTL7</i>	-0.66	2.82E-03	angiopoietin like 7
ENSMMUG00000009831	<i>TBC1D2</i>	-0.64	2.82E-03	TBC1 domain family member 2
ENSMMUG00000002517	<i>PTPDC1</i>	2.44	2.85E-03	protein tyrosine phosphatase domain containing 1
ENSMMUG00000009251	<i>TSPAN9</i>	-0.67	2.86E-03	tetraspanin 9
ENSMMUG00000023274	<i>SULF1</i>	-0.83	2.88E-03	sulfatase 1
ENSMMUG00000009366	<i>DOCK2</i>	-0.54	2.92E-03	dedicator of cytokinesis 2
ENSMMUG00000005136	<i>TCAF1</i>	-0.62	2.95E-03	TRPM8 channel associated factor 1
ENSMMUG00000000511	<i>MSC</i>	1.14	3.05E-03	musculin
ENSMMUG00000013531	<i>IPO5</i>	0.56	3.05E-03	importin 5
ENSMMUG00000000947	<i>TEX30</i>	0.70	3.05E-03	testis expressed 30
ENSMMUG00000000345	<i>CARS</i>	0.92	3.05E-03	cysteinyI-tRNA synthetase 1
ENSMMUG00000022066	<i>UTP25</i>	0.63	3.05E-03	UTP25 small subunit processor component
ENSMMUG00000019126	<i>PNP</i>	0.77	3.08E-03	purine nucleoside phosphorylase
ENSMMUG00000007284	<i>SUN2</i>	-0.57	3.09E-03	Sad1 and UNC84 domain containing 2
ENSMMUG00000011328	<i>CPEB1</i>	0.65	3.10E-03	cytoplasmic polyadenylation element binding protein 1
ENSMMUG00000003301	<i>TEF</i>	-0.75	3.22E-03	TEF transcription factor, PAR bZIP family member
ENSMMUG00000020954	<i>CDC25A</i>	0.69	3.22E-03	cell division cycle 25A
ENSMMUG00000005221	<i>ADAMTS15</i>	0.89	3.22E-03	ADAM metalloproteinase with thrombospondin type 1 motif 15
ENSMMUG00000023810	<i>MARS2</i>	0.97	3.22E-03	methionyl-tRNA synthetase 2, mitochondrial
ENSMMUG00000004475	<i>MMP2</i>	-0.59	3.22E-03	matrix metalloproteinase 2
ENSMMUG00000023042	<i>SPCS2</i>	0.61	3.35E-03	signal peptidase complex subunit 2
ENSMMUG00000010685	<i>OLFML2B</i>	-0.92	3.35E-03	olfactomedin like 2B
ENSMMUG00000039960	<i>LOC106998872</i>	1.82	3.42E-03	N/A
ENSMMUG00000013048	<i>NPR3</i>	-1.39	3.58E-03	natriuretic peptide receptor 3
ENSMMUG00000013366	<i>JUP</i>	-0.80	3.58E-03	junction plakoglobin
ENSMMUG00000007906	<i>CDC42EP3</i>	0.60	3.63E-03	CDC42 effector protein 3
ENSMMUG00000001583	<i>FSCN2</i>	-0.94	3.63E-03	fascin actin-bundling protein 2, retinal
ENSMMUG00000022963	<i>SLC25A38</i>	0.71	3.65E-03	solute carrier family 25 member 38
ENSMMUG00000001850	<i>SPARC</i>	-0.60	3.81E-03	secreted protein acidic and cysteine rich
ENSMMUG00000005915	<i>DYNC1I1</i>	-0.71	3.83E-03	dynein cytoplasmic 1 intermediate chain 1
ENSMMUG00000011798	<i>LOC705696</i>	0.58	3.96E-03	eukaryotic translation initiation factor 3 subunit C
ENSMMUG00000021590	<i>PCK2</i>	0.94	3.96E-03	phosphoenolpyruvate carboxykinase 2, mitochondrial
ENSMMUG00000021074	<i>RASGEF1B</i>	1.55	3.97E-03	RasGEF domain family member 1B
ENSMMUG00000048864	<i>ROGDI</i>	-0.64	4.06E-03	rogdi atypical leucine zipper
ENSMMUG00000017946	<i>RND1</i>	2.49	4.06E-03	Rho family GTPase 1
ENSMMUG00000021296	<i>EML6</i>	0.79	4.08E-03	EMAP like 6

ENSMMUG00000014175	<i>SPRY4</i>	1.38	4.10E-03	sprouty RTK signaling antagonist 4
ENSMMUG00000023393	<i>LYAR</i>	0.65	4.24E-03	Ly1 antibody reactive
ENSMMUG00000015799	<i>TLL1</i>	-0.66	4.27E-03	tolloid like 1
ENSMMUG00000046090	<i>ZNF488</i>	-0.74	4.33E-03	zinc finger protein 488
ENSMMUG00000011907	<i>RF02251</i>	-0.86	4.33E-03	N/A
ENSMMUG00000011294	<i>LSR</i>	0.62	4.34E-03	lipolysis stimulated lipoprotein receptor
ENSMMUG00000048483	<i>RF00015</i>	1.59	4.50E-03	RNA, U4 small nuclear 2
ENSMMUG00000009901	<i>LDLR</i>	-0.80	4.65E-03	low density lipoprotein receptor
ENSMMUG00000003237	<i>ID2</i>	-0.70	4.65E-03	inhibitor of DNA binding 2
ENSMMUG00000003611	<i>HMOX2</i>	0.78	4.65E-03	heme oxygenase 2
ENSMMUG00000002295	<i>CRABP2</i>	1.45	4.69E-03	cellular retinoic acid binding protein 2
ENSMMUG00000002182	<i>PISD</i>	0.61	4.73E-03	phosphatidylserine decarboxylase
ENSMMUG00000003511	<i>CLIC5</i>	-1.08	4.79E-03	chloride intracellular channel 5
ENSMMUG00000008924	<i>PLLP</i>	-0.87	4.93E-03	plasmolipin
ENSMMUG00000012427	<i>FBXL13</i>	-0.64	5.04E-03	F-box and leucine rich repeat protein 13
ENSMMUG00000014757	<i>SYT17</i>	-0.67	5.10E-03	synaptotagmin 17
ENSMMUG00000004179	<i>LIMS2</i>	-1.20	5.11E-03	LIM zinc finger domain containing 2
ENSMMUG00000015785	<i>AMPD3</i>	0.78	5.17E-03	adenosine monophosphate deaminase 3
ENSMMUG00000039576	N/A	0.97	5.35E-03	N/A
ENSMMUG00000014784	<i>DSP</i>	-0.57	5.38E-03	desmoplakin
ENSMMUG00000045851	N/A	0.93	5.42E-03	N/A
ENSMMUG00000007231	<i>ZSCAN31</i>	-0.76	5.49E-03	zinc finger and SCAN domain containing 31
ENSMMUG00000011999	<i>SLC38A1</i>	0.83	5.49E-03	solute carrier family 38 member 1
ENSMMUG00000001952	<i>SRGAP1</i>	1.40	5.88E-03	SLIT-ROBO Rho GTPase activating protein 1
ENSMMUG00000018791	<i>MOCOS</i>	0.78	5.93E-03	molybdenum cofactor sulfurase
ENSMMUG00000012068	<i>SIPA1L2</i>	2.01	6.09E-03	signal induced proliferation associated 1 like 2
ENSMMUG00000020987	<i>FABP3</i>	-0.52	6.22E-03	fatty acid binding protein 4
ENSMMUG00000005093	<i>KLHL32</i>	-0.81	6.32E-03	kelch like family member 32
ENSMMUG00000018880	<i>ABHD17B</i>	-0.83	6.69E-03	abhydrolase domain containing 17B, depalmitoylase
ENSMMUG00000001183	<i>NOLC1</i>	0.50	6.73E-03	nucleolar and coiled-body phosphoprotein 1
ENSMMUG00000013808	<i>SH3BP4</i>	0.62	6.82E-03	SH3 domain binding protein 4
ENSMMUG00000012634	<i>GTF2F2</i>	0.57	6.92E-03	general transcription factor IIF subunit 2
ENSMMUG00000006057	<i>NTMT1</i>	0.55	6.95E-03	N-terminal Xaa-Pro-Lys N-methyltransferase 1
ENSMMUG00000008003	<i>LRRC8C</i>	0.80	6.99E-03	leucine rich repeat containing 8 VRAC subunit C
ENSMMUG00000008653	<i>FOSL1</i>	0.74	7.04E-03	FOS like 1, AP-1 transcription factor subunit
ENSMMUG00000000145	<i>PDPN</i>	-0.58	7.13E-03	podoplanin
ENSMMUG00000005722	<i>PDCD4</i>	-0.78	7.27E-03	programmed cell death 4
ENSMMUG00000001996	<i>F11R</i>	-0.74	7.27E-03	F11 receptor
ENSMMUG00000017204	<i>ADGRE5</i>	-0.53	7.27E-03	adhesion G protein-coupled receptor E5
ENSMMUG00000004496	<i>MIEF1</i>	0.55	7.30E-03	mitochondrial elongation factor 1
ENSMMUG00000016040	<i>RND3</i>	0.70	7.34E-03	Rho family GTPase 3
ENSMMUG00000010114	<i>TMEM63A</i>	-0.51	7.37E-03	transmembrane protein 63A
ENSMMUG00000005785	<i>RIN2</i>	-0.61	7.37E-03	Ras and Rab interactor 2
ENSMMUG00000045396	<i>SELENBP1</i>	-0.60	7.63E-03	selenium binding protein 1
ENSMMUG00000021247	<i>TGM2</i>	-0.77	7.70E-03	transglutaminase 2
ENSMMUG00000018925	<i>ALS2CL</i>	-0.60	7.70E-03	ALS2 C-terminal like
ENSMMUG00000013640	<i>ZBTB43</i>	0.68	7.72E-03	zinc finger and BTB domain containing 43
ENSMMUG00000007401	<i>ARRDC2</i>	-0.59	7.73E-03	arrestin domain containing 2
ENSMMUG00000022019	<i>CTSO</i>	-0.49	7.74E-03	cathepsin O
ENSMMUG00000014372	<i>BMF</i>	-0.74	7.92E-03	Bcl2 modifying factor
ENSMMUG00000007729	<i>ILVBL</i>	-0.52	7.92E-03	ilvB acetolactate synthase like
ENSMMUG00000023491	<i>LGR4</i>	-0.70	8.09E-03	leucine rich repeat containing G protein-coupled receptor 4
ENSMMUG00000008100	<i>SLC6A3</i>	-0.58	8.35E-03	solute carrier family 6 member 3

ENSMMUG00000005198	<i>IRF1</i>	0.67	8.35E-03	interferon regulatory factor 1
ENSMMUG00000010808	<i>PREB</i>	0.63	8.42E-03	prolactin regulatory element binding
ENSMMUG00000002390	<i>C1H1orf43</i>	0.53	8.42E-03	chromosome 1 C1orf43 homolog
ENSMMUG00000017300	<i>PFDN4</i>	0.54	8.43E-03	prefoldin subunit 4
ENSMMUG00000002640	<i>TRPC4</i>	-0.86	8.48E-03	transient receptor potential cation channel subfamily C member 4
ENSMMUG00000003974	<i>EBNA1BP2</i>	0.50	8.48E-03	EBNA1 binding protein 2
ENSMMUG00000013997	<i>GREB1L</i>	-0.68	8.48E-03	GREB1 like retinoic acid receptor coactivator
ENSMMUG00000019270	<i>LOC712661</i>	0.84	8.48E-03	perilipin-2
ENSMMUG00000022873	<i>MTO1</i>	0.54	8.48E-03	mitochondrial tRNA translation optimization 1
ENSMMUG00000030786	<i>SERPINB8</i>	0.94	8.48E-03	serpin family B member 8
ENSMMUG00000015607	<i>SLC39A13</i>	-0.46	8.52E-03	solute carrier family 39 member 13
ENSMMUG00000011557	<i>PDGFRB</i>	-0.66	8.55E-03	platelet derived growth factor receptor beta
ENSMMUG00000021484	<i>NPC1</i>	-0.49	8.63E-03	NPC intracellular cholesterol transporter 1
ENSMMUG00000001847	<i>GBP6</i>	1.38	8.71E-03	guanylate binding protein family member 6
ENSMMUG00000020157	<i>CNTN4</i>	2.55	8.71E-03	contactin 4
ENSMMUG00000042891	<i>QPRT</i>	-0.87	8.71E-03	quinolinate phosphoribosyltransferase
ENSMMUG00000023621	<i>DDX27</i>	0.54	9.13E-03	DEAD-box helicase 27
ENSMMUG00000003587	<i>KLRC1</i>	1.97	9.20E-03	killer cell lectin like receptor C1
ENSMMUG00000024424	<i>LOC114679145</i>	2.38	9.30E-03	small nucleolar RNA SNORD63
ENSMMUG00000044591	<i>N/A</i>	-0.72	9.62E-03	N/A
ENSMMUG00000003708	<i>PDE7B</i>	0.93	9.92E-03	phosphodiesterase 7B
ENSMMUG00000004383	<i>ADGRF3</i>	-0.64	9.95E-03	adhesion G protein-coupled receptor F3
ENSMMUG00000022750	<i>ID1</i>	-0.77	9.97E-03	inhibitor of DNA binding 1
ENSMMUG00000004403	<i>ZBTB21</i>	0.75	9.97E-03	zinc finger and BTB domain containing 21
ENSMMUG00000018053	<i>DPP7</i>	-0.45	9.97E-03	dipeptidyl peptidase 7
ENSMMUG00000008633	<i>ANK2</i>	-0.56	1.01E-02	ankyrin 2
ENSMMUG00000015968	<i>FKBP4</i>	0.57	1.01E-02	FKBP prolyl isomerase 4
ENSMMUG00000007405	<i>CMPK2</i>	1.17	1.01E-02	cytidine/uridine monophosphate kinase 2
ENSMMUG00000048768	<i>N/A</i>	-0.64	1.01E-02	N/A
ENSMMUG00000004751	<i>PLA2G15</i>	-0.67	1.01E-02	phospholipase A2 group XV
ENSMMUG00000014685	<i>PDK2</i>	-0.53	1.01E-02	pyruvate dehydrogenase kinase 2
ENSMMUG00000010147	<i>ALDH4A1</i>	-0.65	1.01E-02	aldehyde dehydrogenase 4 family member A1
ENSMMUG00000003316	<i>MAN2A1</i>	0.62	1.05E-02	mannosidase alpha class 2A member 1
ENSMMUG00000041440	<i>N/A</i>	1.25	1.05E-02	N/A
ENSMMUG00000012569	<i>TMEM132D</i>	0.65	1.05E-02	transmembrane protein 132D
ENSMMUG00000039045	<i>NGF</i>	0.60	1.05E-02	nerve growth factor
ENSMMUG00000013342	<i>HPSE</i>	0.68	1.05E-02	heparanase
ENSMMUG00000004196	<i>MGARP</i>	-1.06	1.07E-02	mitochondria localized glutamic acid rich protein
ENSMMUG00000019661	<i>TPST2</i>	-0.51	1.08E-02	tyrosylprotein sulfotransferase 2
ENSMMUG00000023450	<i>PIK3IP1</i>	-0.84	1.08E-02	phosphoinositide-3-kinase interacting protein 1
ENSMMUG00000017017	<i>FYN</i>	0.65	1.08E-02	FYN proto-oncogene, Src family tyrosine kinase
ENSMMUG00000008793	<i>SPP1</i>	-0.67	1.08E-02	secreted phosphoprotein 1
ENSMMUG00000014230	<i>FMO4</i>	-0.55	1.10E-02	flavin containing dimethylaniline monooxygenase 4
ENSMMUG00000012138	<i>RORC</i>	-0.49	1.11E-02	RAR related orphan receptor C
ENSMMUG00000001127	<i>TIMP4</i>	1.43	1.11E-02	TIMP metalloproteinase inhibitor 4
ENSMMUG00000023533	<i>SERINC5</i>	-0.51	1.12E-02	serine incorporator 5
ENSMMUG00000010814	<i>TRIB3</i>	1.55	1.13E-02	tribbles pseudokinase 3
ENSMMUG00000012600	<i>HAX1</i>	0.62	1.13E-02	HCLS1 associated protein X-1
ENSMMUG00000005788	<i>LOC693799</i>	1.15	1.14E-02	mitochondrial import inner membrane translocase subunit Tim9
ENSMMUG00000023365	<i>ME1</i>	-0.53	1.15E-02	malic enzyme 1
ENSMMUG00000012592	<i>UROS</i>	-0.51	1.15E-02	uroporphyrinogen III synthase
ENSMMUG00000021407	<i>LOC706619</i>	-0.51	1.15E-02	transducin-like enhancer protein 4



ENSMMUG00000008539	<i>TRAF4</i>	-0.50	1.15E-02	TNF receptor associated factor 4
ENSMMUG00000008033	<i>IFRD1</i>	0.98	1.21E-02	interferon related developmental regulator 1
ENSMMUG00000002357	<i>TMEM2</i>	-0.53	1.21E-02	cell migration inducing hyaluronidase 2
ENSMMUG00000022403	<i>LRRC32</i>	-0.84	1.21E-02	leucine rich repeat containing 32
ENSMMUG00000010279	<i>SLC1A4</i>	0.65	1.21E-02	solute carrier family 1 member 4
ENSMMUG00000046776	N/A	-1.19	1.21E-02	N/A
ENSMMUG00000047621	<i>TM4SF18</i>	-0.99	1.23E-02	transmembrane 4 L six family member 18
ENSMMUG00000021225	<i>SAT1</i>	0.96	1.24E-02	spermidine/spermine N1-acetyltransferase 1
ENSMMUG00000010813	<i>GAR1</i>	0.85	1.24E-02	GAR1 ribonucleoprotein
ENSMMUG00000015329	<i>GTPBP4</i>	0.55	1.24E-02	GTP binding protein 4
ENSMMUG00000008335	<i>MX1</i>	1.73	1.24E-02	MX dynamin like GTPase 1
ENSMMUG00000029011	<i>UBXN8</i>	0.56	1.24E-02	UBX domain protein 8
ENSMMUG00000040972	<i>KCNK3</i>	-1.01	1.24E-02	potassium two pore domain channel subfamily K member 3
ENSMMUG00000044029	<i>C1QTNF6</i>	-0.76	1.25E-02	C1q and TNF related 6
ENSMMUG00000016418	<i>CBX4</i>	0.62	1.25E-02	chromobox 4
ENSMMUG00000021764	<i>MMP10</i>	1.54	1.27E-02	matrix metalloproteinase 10
ENSMMUG00000012895	<i>PYCR1</i>	0.82	1.28E-02	pyrroline-5-carboxylate reductase 1
ENSMMUG00000005431	<i>SLC25A1</i>	-0.48	1.29E-02	solute carrier family 25 member 1
ENSMMUG00000007052	<i>MMP15</i>	0.87	1.31E-02	matrix metalloproteinase 15
ENSMMUG00000011161	<i>STXBP5L</i>	-0.61	1.35E-02	syntaxin binding protein 5L
ENSMMUG00000041731	<i>TMEM86A</i>	-0.46	1.37E-02	transmembrane protein 86A
ENSMMUG00000002038	<i>ST3GAL1</i>	0.74	1.38E-02	ST3 beta-galactoside alpha-2,3-sialyltransferase 1
ENSMMUG00000012531	<i>CEMIP</i>	-0.75	1.38E-02	cell migration inducing hyaluronidase 1
ENSMMUG00000014498	<i>CACNA1E</i>	1.06	1.38E-02	calcium voltage-gated channel subunit alpha1 E
ENSMMUG00000015158	<i>SLC6A9</i>	1.46	1.39E-02	solute carrier family 6 member 9
ENSMMUG00000000828	<i>GAB1</i>	-0.60	1.45E-02	GRB2 associated binding protein 1
ENSMMUG00000010594	<i>PTGFR</i>	1.36	1.45E-02	prostaglandin F receptor
ENSMMUG00000003189	<i>PPIF</i>	0.75	1.46E-02	peptidylprolyl isomerase F
ENSMMUG00000044497	N/A	1.07	1.46E-02	N/A
ENSMMUG00000019850	<i>SLC47A1</i>	0.61	1.48E-02	solute carrier family 47 member 1
ENSMMUG00000002700	<i>ALOXE3</i>	1.79	1.48E-02	arachidonate lipoxygenase 3
ENSMMUG00000003289	<i>ITGB3</i>	1.16	1.48E-02	integrin subunit beta 3
ENSMMUG00000019859	<i>PRKG2</i>	-1.22	1.48E-02	protein kinase cGMP-dependent 2
ENSMMUG00000020408	<i>HPGD</i>	-0.89	1.49E-02	15-hydroxyprostaglandin dehydrogenase
ENSMMUG00000014618	<i>SEC23B</i>	0.51	1.49E-02	SEC23 homolog B, COPII coat complex component
ENSMMUG00000012878	<i>SPATA9</i>	2.43	1.49E-02	spermatogenesis associated 9
ENSMMUG00000001213	<i>NDRG4</i>	0.49	1.49E-02	NDRG family member 4
ENSMMUG00000004872	<i>TMEM220</i>	-0.72	1.49E-02	transmembrane protein 220
ENSMMUG00000008869	<i>TNFAIP3</i>	0.89	1.49E-02	TNF alpha induced protein 3
ENSMMUG00000004594	<i>CGRF1</i>	0.56	1.51E-02	cell growth regulator with ring finger domain 1
ENSMMUG00000020941	<i>LOC693438</i>	0.89	1.52E-02	heat shock 60kDa protein 1 (chaperonin)-like
ENSMMUG00000022927	<i>RCAN3</i>	-0.67	1.53E-02	RCAN family member 3
ENSMMUG00000002678	<i>ITGB6</i>	-1.17	1.55E-02	integrin subunit beta 6
ENSMMUG00000010393	<i>RAC1</i>	-0.58	1.55E-02	Rac family small GTPase 1
ENSMMUG00000010895	<i>CDH3</i>	-0.68	1.55E-02	cadherin 3
ENSMMUG00000047800	<i>PFKFB3</i>	0.64	1.55E-02	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3
ENSMMUG00000011115	<i>TYR</i>	-0.60	1.55E-02	tyrosinase
ENSMMUG00000041795	<i>CROCC2</i>	-1.11	1.55E-02	ciliary rootlet coiled-coil, rootletin family member 2
ENSMMUG00000001005	<i>DDX21</i>	0.51	1.55E-02	DEAD-box helicase 21
ENSMMUG00000009429	<i>FAM102B</i>	-0.74	1.56E-02	EEIG family member 2
ENSMMUG00000000529	<i>GPC6</i>	-0.67	1.61E-02	glypican 6
ENSMMUG00000016030	<i>TRIM25</i>	0.62	1.61E-02	tripartite motif containing 25

ENSMMUG00000005790	<i>KLHL29</i>	0.55	1.61E-02	kelch like family member 29
ENSMMUG00000009238	<i>IL1RL1</i>	2.29	1.66E-02	interleukin 1 receptor like 1
ENSMMUG00000001694	<i>FZD8</i>	-0.59	1.67E-02	frizzled class receptor 8
ENSMMUG00000007798	<i>CLMP</i>	1.05	1.68E-02	CXADR like membrane protein
ENSMMUG00000009528	<i>THSD1</i>	0.89	1.71E-02	thrombospondin type 1 domain containing
ENSMMUG00000006284	<i>MBOAT2</i>	-0.54	1.71E-02	membrane bound O-acyltransferase domain contain- ing 2
ENSMMUG000000021037	<i>AK2</i>	0.54	1.71E-02	adenylate kinase 2
ENSMMUG00000002103	<i>DNER</i>	1.67	1.73E-02	delta/notch like EGF repeat containing
ENSMMUG00000003839	<i>MAPKBP1</i>	-0.48	1.74E-02	mitogen-activated protein kinase binding protein 1
ENSMMUG00000020086	<i>POR</i>	0.57	1.75E-02	cytochrome p450 oxidoreductase
ENSMMUG000000031911	<i>KRT18</i>	0.52	1.76E-02	keratin 18
ENSMMUG00000000343	<i>SCN3B</i>	2.30	1.76E-02	sodium voltage-gated channel beta subunit 3
ENSMMUG000000012100	<i>MYOM1</i>	-0.68	1.77E-02	myomesin 1
ENSMMUG000000019892	<i>CDH15</i>	-1.06	1.77E-02	cadherin 15
ENSMMUG000000040286	<i>NAPEPLD</i>	-0.55	1.77E-02	N-acyl phosphatidylethanolamine phospholipase D
ENSMMUG000000004236	<i>N/A</i>	-0.89	1.77E-02	N/A
ENSMMUG000000042378	<i>PEAK1</i>	-0.53	1.79E-02	pseudopodium enriched atypical kinase 1
ENSMMUG000000018572	<i>GHITM</i>	0.53	1.82E-02	growth hormone inducible transmembrane protein
ENSMMUG000000040044	<i>SEMA3A</i>	-0.90	1.82E-02	semaphorin 3A
ENSMMUG00000007555	<i>RF00056</i>	1.43	1.82E-02	N/A
ENSMMUG000000020374	<i>NFKBIA</i>	0.55	1.83E-02	NFKB inhibitor alpha
ENSMMUG000000016840	<i>SOWAHC</i>	0.90	1.83E-02	sosondowah ankyrin repeat domain family member C
ENSMMUG000000017179	<i>MAP2K1</i>	0.46	1.83E-02	mitogen-activated protein kinase kinase 1
ENSMMUG000000000980	<i>YPEL3</i>	-0.50	1.83E-02	yippee like 3
ENSMMUG000000005220	<i>SYNM</i>	-0.58	1.87E-02	synemin
ENSMMUG000000017588	<i>NRP1</i>	-0.51	1.87E-02	neuropilin 1
ENSMMUG000000043224	<i>PRRX1</i>	-0.52	1.89E-02	paired related homeobox 1
ENSMMUG000000017101	<i>CTPS1</i>	0.49	1.91E-02	CTP synthase 1
ENSMMUG000000014992	<i>RAB2B</i>	0.45	1.91E-02	RAB2B, member RAS oncogene family
ENSMMUG000000020365	<i>ARHGAP18</i>	-0.62	1.91E-02	Rho GTPase activating protein 18
ENSMMUG000000043719	<i>C1H1orf216</i>	-0.60	1.91E-02	chromosome 1 open reading frame
ENSMMUG000000011902	<i>OSTC</i>	0.55	1.92E-02	oligosaccharyltransferase complex non-catalytic sub- unit
ENSMMUG000000007814	<i>GPM6A</i>	-0.54	1.92E-02	glycoprotein M6A
ENSMMUG000000012848	<i>XPR1</i>	-0.51	1.93E-02	xenotropic and polytropic retrovirus receptor 1
ENSMMUG000000015676	<i>CDSN</i>	-1.36	1.94E-02	corneodesmosin
ENSMMUG000000024764	<i>LOC114680488</i>	0.81	1.96E-02	small nucleolar RNA SNORA72
ENSMMUG000000018411	<i>INSL4</i>	-0.94	1.97E-02	insulin like 4
ENSMMUG000000002614	<i>SLIT2</i>	1.13	1.97E-02	slit guidance ligand 2
ENSMMUG000000003721	<i>KLF15</i>	1.03	1.97E-02	KLF transcription factor 15
ENSMMUG000000015303	<i>ABCA7</i>	-0.51	1.98E-02	ATP binding cassette subfamily A member 7
ENSMMUG000000045968	<i>N/A</i>	0.71	1.98E-02	N/A
ENSMMUG000000044239	<i>H3F3A</i>	-0.59	1.99E-02	histone H3.3
ENSMMUG000000003569	<i>ARRDC3</i>	-0.53	1.99E-02	arrestin domain containing 3
ENSMMUG000000048596	<i>HILPDA</i>	0.72	1.99E-02	hypoxia inducible lipid droplet associated
ENSMMUG000000014514	<i>CXCL2</i>	1.30	1.99E-02	C-X-C motif chemokine ligand 2
ENSMMUG000000000198	<i>COLGALT1</i>	-0.56	1.99E-02	collagen beta(1-O)galactosyltransferase 1
ENSMMUG000000020148	<i>BAG1</i>	0.59	2.01E-02	BAG cochaperone 1
ENSMMUG000000003709	<i>MTFR2</i>	0.53	2.01E-02	mitochondrial fission regulator 2
ENSMMUG000000020324	<i>SMIM14</i>	0.51	2.02E-02	small integral membrane protein 14
ENSMMUG000000022301	<i>STK38L</i>	-0.69	2.05E-02	serine/threonine kinase 38 like
ENSMMUG000000010028	<i>RAG2</i>	-1.80	2.05E-02	recombination activating 2

ENSMMUG00000018268	<i>LZTS3</i>	0.57	2.05E-02	leucine zipper tumor suppressor family member 3
ENSMMUG00000023248	<i>AHNAK</i>	-0.48	2.05E-02	AHNAK nucleoprotein
ENSMMUG00000017252	<i>SPATA20</i>	-0.44	2.09E-02	spermatogenesis associated 20
ENSMMUG00000021702	<i>CREB3L1</i>	-0.60	2.09E-02	cAMP responsive element binding protein 3 like 1
ENSMMUG00000018571	<i>COA6</i>	0.86	2.09E-02	cytochrome c oxidase assembly factor 6
ENSMMUG00000016897	<i>SECTM1</i>	2.02	2.11E-02	secreted and transmembrane 1
ENSMMUG00000019774	<i>MTHFD1L</i>	0.54	2.14E-02	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1 like
ENSMMUG00000022693	<i>SLC8A1</i>	-0.45	2.16E-02	solute carrier family 8 member A1
ENSMMUG00000015508	<i>OXNAD1</i>	0.48	2.16E-02	oxidoreductase NAD binding domain containing 1
ENSMMUG00000016872	<i>EFEMP1</i>	-0.44	2.19E-02	EGF containing fibulin extracellular matrix protein 1
ENSMMUG00000004409	<i>ZNF608</i>	-0.60	2.20E-02	zinc finger protein 608
ENSMMUG00000002147	<i>SSR1</i>	0.47	2.21E-02	signal sequence receptor subunit 1
ENSMMUG00000047327	<i>IGFBP7</i>	-0.51	2.21E-02	insulin like growth factor binding protein 7
ENSMMUG00000014011	<i>SLC38A11</i>	-0.51	2.21E-02	solute carrier family 38 member 11
ENSMMUG00000048391	<i>DDRKG1</i>	0.50	2.21E-02	DDRKG domain containing 1
ENSMMUG00000005009	<i>LOC106996872</i>	0.51	2.21E-02	translocon-associated protein subunit gamma pseudogene
ENSMMUG00000019018	<i>SMAD6</i>	-1.10	2.23E-02	SMAD family member 6
ENSMMUG00000024487	<i>LOC114672518</i>	0.64	2.24E-02	small nucleolar RNA SNORD22
ENSMMUG00000013494	<i>EZH2</i>	0.54	2.32E-02	enhancer of zeste 2 polycomb repressive complex 2 subunit
ENSMMUG00000016970	<i>SSR3</i>	0.49	2.32E-02	signal sequence receptor subunit 3
ENSMMUG00000028673	<i>TUBA1A</i>	-0.42	2.35E-02	tubulin alpha-1C chain
ENSMMUG00000009788	<i>ND5</i>	-0.53	2.35E-02	NADH ubiquinone oxidoreductase core subunit 5
ENSMMUG00000041498	<i>TRAF1</i>	0.82	2.35E-02	TNF receptor associated factor 1
ENSMMUG00000048076	<i>TNFRSF10B</i>	0.60	2.36E-02	TNF receptor superfamily member 10b
ENSMMUG00000016009	<i>LOC723733</i>	0.55	2.38E-02	eukaryotic translation elongation factor 1 gamma-like
ENSMMUG00000015093	<i>VLDLR</i>	0.51	2.38E-02	very low density lipoprotein receptor
ENSMMUG00000015585	<i>GPT</i>	-1.14	2.42E-02	glutamic--pyruvic transaminase
ENSMMUG00000003909	<i>ST7</i>	0.49	2.45E-02	suppression of tumorigenicity 7
ENSMMUG00000021722	<i>FTL</i>	0.60	2.45E-02	ferritin light chain
ENSMMUG00000048823	<i>RHBDF2</i>	0.73	2.46E-02	rhomboid 5 homolog 2
ENSMMUG00000018973	<i>N/A</i>	-0.53	2.46E-02	N/A
ENSMMUG00000014414	<i>ABHD2</i>	-0.49	2.47E-02	abhydrolase domain containing 2, acylglycerol lipase
ENSMMUG00000030744	<i>ARID5A</i>	0.96	2.49E-02	AT-rich interaction domain 5A
ENSMMUG00000017123	<i>PLA2G12A</i>	0.56	2.50E-02	phospholipase A2 group X1IA
ENSMMUG00000014430	<i>FICD</i>	1.04	2.50E-02	FIC domain protein adenyltransferase
ENSMMUG00000008177	<i>FOSB</i>	2.81	2.50E-02	FosB proto-oncogene, AP-1 transcription factor subunit
ENSMMUG00000018639	<i>MEX3B</i>	-0.98	2.50E-02	mex-3 RNA binding family member B
ENSMMUG00000042580	<i>ARF1</i>	0.47	2.50E-02	ADP ribosylation factor 1
ENSMMUG00000016053	<i>ZNF226</i>	-0.56	2.50E-02	zinc finger protein 226
ENSMMUG00000047704	<i>LIX1L</i>	-0.51	2.50E-02	limb and CNS expressed 1 like
ENSMMUG00000017915	<i>PAEP</i>	-1.17	2.50E-02	progesterone-associated endometrial protein
ENSMMUG00000046424	<i>C11H12orf75</i>	-0.47	2.54E-02	chromosome 11 C12orf75 homolog
ENSMMUG00000007665	<i>HCFC1R1</i>	2.18	2.54E-02	host cell factor C1 regulator 1
ENSMMUG00000022672	<i>HTRA3</i>	-1.38	2.54E-02	HtrA serine peptidase 3(HTRA3)
ENSMMUG00000012618	<i>SERPING1</i>	-0.48	2.55E-02	serpin family G member 1
ENSMMUG00000022394	<i>EGFR</i>	0.62	2.55E-02	epidermal growth factor receptor
ENSMMUG00000042327	<i>N/A</i>	1.44	2.56E-02	N/A
ENSMMUG00000020208	<i>ELOVL4</i>	0.99	2.57E-02	ELOVL fatty acid elongase 4
ENSMMUG00000007400	<i>TP53I3</i>	0.65	2.57E-02	tumor protein p53 inducible protein 3

ENSMMUG00000001283	ZFP36L1	-0.42	2.57E-02	ZFP36 ring finger protein like 1
ENSMMUG00000044603	SIAH1	0.57	2.57E-02	siah E3 ubiquitin protein ligase 1
ENSMMUG00000019994	SDCCAG8	-0.46	2.57E-02	SHH signaling and ciliogenesis regulator SDCCAG8
ENSMMUG00000008094	DUSP4	0.98	2.57E-02	dual specificity phosphatase 4
ENSMMUG00000014952	NUP210L	0.79	2.58E-02	nucleoporin 210 like
ENSMMUG00000007918	ZNHIT3	0.66	2.58E-02	zinc finger HIT-type containing 3
ENSMMUG00000022124	STON2	-0.57	2.64E-02	stonin 2
ENSMMUG00000001031	TMEM231	0.52	2.64E-02	transmembrane protein 231
ENSMMUG00000016074	MYCL	1.10	2.64E-02	MYCL proto-oncogene, bHLH transcription factor
ENSMMUG00000016223	ABHD5	0.66	2.64E-02	abhydrolase domain containing 5, lysophosphatidic acid acyltransferase
ENSMMUG00000001564	LFNG	-0.94	2.64E-02	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
ENSMMUG00000018379	FAM13A	-0.56	2.65E-02	family with sequence similarity 13 member A
ENSMMUG00000010141	DEPDC1B	0.83	2.65E-02	DEP domain containing 1B
ENSMMUG00000047033	ULBP3	1.04	2.67E-02	UL16-binding protein 3
ENSMMUG00000008247	MXRA5	-0.49	2.67E-02	matrix remodeling associated 5
ENSMMUG00000009615	IMP4	0.51	2.67E-02	IMP U3 small nucleolar ribonucleoprotein 4
ENSMMUG00000001172	SOHLH2	1.44	2.68E-02	spermatogenesis and oogenesis specific basic helix-loop-helix 2
ENSMMUG00000005778	TXNRD1	0.53	2.70E-02	thioredoxin reductase 1
ENSMMUG00000012091	FOXC1	1.01	2.70E-02	forkhead box C1
ENSMMUG00000019106	MCAM	0.63	2.74E-02	melanoma cell adhesion molecule
ENSMMUG00000018601	DDR1	-0.49	2.74E-02	discoidin domain receptor tyrosine kinase 1
ENSMMUG00000004764	CDC14A	0.84	2.74E-02	cell division cycle 14A
ENSMMUG00000047349	UPK3B	-0.51	2.74E-02	uroplakin 3B
ENSMMUG00000042176	ERRFI1	0.86	2.75E-02	ERBB receptor feedback inhibitor 1
ENSMMUG00000042036	GNG3	-2.24	2.75E-02	G protein subunit gamma 3
ENSMMUG00000017745	ANGPT1	-1.01	2.77E-02	angiopoietin 1
ENSMMUG00000021645	RORA	0.90	2.77E-02	RAR related orphan receptor A
ENSMMUG00000044139	TAX1BP3	-0.40	2.77E-02	Tax1 binding protein 3
ENSMMUG00000011757	CHST10	0.63	2.77E-02	carbohydrate sulfotransferase 10
ENSMMUG00000018192	ERO1B	0.61	2.77E-02	endoplasmic reticulum oxidoreductase 1 beta
ENSMMUG00000023390	WWC3	-0.42	2.77E-02	WWC family member 3
ENSMMUG00000016290	NUP188	0.45	2.77E-02	nucleoporin 188
ENSMMUG00000010405	FAM171B	0.69	2.81E-02	family with sequence similarity 171 member B
ENSMMUG00000011262	PDE7A	-0.61	2.82E-02	phosphodiesterase 7A
ENSMMUG00000031713	TMEM19	-0.58	2.90E-02	transmembrane protein 19
ENSMMUG00000020948	LOC106995399	0.65	2.90E-02	cytochrome c-like
ENSMMUG00000012324	LOC713150	0.60	2.90E-02	aldo-keto reductase family 1 member B10-like
ENSMMUG00000022386	NXT1	0.62	2.96E-02	nuclear transport factor 2 like export factor 1
ENSMMUG00000006582	PLK3	1.08	2.97E-02	polo like kinase 3
ENSMMUG00000012511	GNL3	0.42	2.99E-02	G protein nucleolar 3
ENSMMUG00000018485	METTL7A	-0.48	3.01E-02	methyltransferase like 7A
ENSMMUG00000013020	GSN	-0.41	3.06E-02	gelsolin
ENSMMUG00000009012	FAM3A	-0.43	3.07E-02	FAM3 metabolism regulating signaling molecule A
ENSMMUG00000018901	LRRC59	0.54	3.07E-02	leucine rich repeat containing 59
ENSMMUG00000017234	FGD6	-0.51	3.07E-02	FYVE, RhoGEF and PH domain containing 6
ENSMMUG00000010653	MFSD12	-0.48	3.07E-02	major facilitator superfamily domain containing 12
ENSMMUG00000010514	SLC6A20	-0.70	3.07E-02	solute carrier family 6 member 20
ENSMMUG00000017856	APH1B	-0.50	3.10E-02	Aph-1 homolog B, gamma-secretase subunit
ENSMMUG00000018683	TNS2	-0.49	3.10E-02	tensin 2
ENSMMUG00000000318	NOP2	0.55	3.10E-02	NOP2 nucleolar protein
ENSMMUG00000001151	MTUS1	-0.57	3.10E-02	microtubule associated scaffold protein 1

ENSMMUG00000016552	<i>INF2</i>	-0.55	3.11E-02	inverted formin 2
ENSMMUG00000011497	<i>WDR44</i>	-0.47	3.12E-02	WD repeat domain 44
ENSMMUG00000006657	<i>MYPN</i>	0.81	3.12E-02	myopalladin
ENSMMUG00000006867	<i>FEN1</i>	0.50	3.12E-02	flap structure-specific endonuclease 1
ENSMMUG00000021517	<i>SCARA3</i>	-0.48	3.14E-02	scavenger receptor class A member 3
ENSMMUG00000001955	<i>C11H12orf66</i>	0.84	3.15E-02	KICSTOR subunit 2
ENSMMUG00000013587	<i>PLCD3</i>	-0.44	3.15E-02	phospholipase C delta 3
ENSMMUG00000022404	<i>APAF1</i>	-0.45	3.16E-02	apoptotic peptidase activating factor 1
ENSMMUG00000021189	<i>RF02216</i>	0.81	3.18E-02	NA
ENSMMUG00000042971	<i>CD59</i>	-0.45	3.18E-02	CD59 molecule (CD59 blood group)
ENSMMUG00000011305	<i>TMTC2</i>	-0.52	3.18E-02	transmembrane O-mannosyltransferase targeting cadherins 2
ENSMMUG00000011209	<i>BICDL1</i>	-0.50	3.19E-02	BICD family like cargo adaptor 1
ENSMMUG00000006984	<i>FBXO33</i>	-0.52	3.19E-02	F-box protein 33
ENSMMUG00000015929	N/A	-1.33	3.19E-02	N/A
ENSMMUG00000020912	<i>SMOX</i>	0.99	3.20E-02	spermine oxidase
ENSMMUG00000001690	<i>CNN3</i>	-0.46	3.22E-02	calponin 3
ENSMMUG00000021847	<i>MYLPF</i>	-0.82	3.24E-02	myosin light chain, phosphorylatable, fast skeletal muscle
ENSMMUG00000020354	<i>SLC3A2</i>	0.90	3.27E-02	solute carrier family 3 member 2
ENSMMUG00000023251	<i>KANK2</i>	-0.42	3.28E-02	KN motif and ankyrin repeat domains 2
ENSMMUG00000015125	<i>PBLD</i>	-0.43	3.30E-02	phenazine biosynthesis like protein domain contain- ing
ENSMMUG00000010180	<i>SOX7</i>	0.64	3.30E-02	SRY-box transcription factor 7
ENSMMUG00000004103	<i>TXNL4B</i>	0.71	3.35E-02	thioredoxin like 4B
ENSMMUG00000048989	<i>COL11A1</i>	-0.49	3.35E-02	collagen type XI alpha 1 chain
ENSMMUG00000023225	<i>E2F6</i>	0.57	3.35E-02	E2F transcription factor 6
ENSMMUG00000020226	<i>WBS1</i>	-0.47	3.35E-02	WD repeat and SOCS box containing 1
ENSMMUG00000014183	<i>PLEKHF2</i>	-0.66	3.39E-02	pleckstrin homology and FYVE domain containing 2
ENSMMUG00000002242	<i>VEGFA</i>	0.74	3.42E-02	vascular endothelial growth factor A
ENSMMUG00000004577	<i>MECOM</i>	-0.65	3.42E-02	MDS1 and EVI1 complex locus
ENSMMUG00000012821	<i>PCYT1B</i>	-1.61	3.46E-02	phosphate cytidylyltransferase 1B, choline
ENSMMUG00000002404	<i>MINK1</i>	-0.42	3.47E-02	misshapen like kinase 1
ENSMMUG00000019369	<i>PLEKHG2</i>	-0.62	3.48E-02	pleckstrin homology and RhoGEF domain containing G2
ENSMMUG00000010944	<i>GATA6</i>	-0.52	3.52E-02	GATA binding protein 6
ENSMMUG00000004416	<i>BYSL</i>	0.50	3.56E-02	bystin like
ENSMMUG00000020119	<i>IFRD2</i>	0.46	3.56E-02	interferon related developmental regulator 2
ENSMMUG00000004559	<i>SLC16A4</i>	-0.60	3.59E-02	solute carrier family 16 member 4
ENSMMUG00000008710	<i>TFEC</i>	-0.86	3.59E-02	transcription factor EC
ENSMMUG00000015022	<i>KCND1</i>	-1.61	3.59E-02	potassium voltage-gated channel subfamily D mem- ber 1
ENSMMUG00000038489	<i>PCDH1</i>	0.57	3.59E-02	protocadherin 1
ENSMMUG00000031161	<i>GMNC</i>	-1.15	3.59E-02	geminin coiled-coil domain containing
ENSMMUG00000003100	<i>CHML</i>	-0.57	3.59E-02	CHM like Rab escort protein
ENSMMUG00000001895	<i>NDUFAF4</i>	0.42	3.59E-02	NADH:ubiquinone oxidoreductase complex assem- bly factor 4
ENSMMUG00000018843	<i>TMEM39A</i>	0.73	3.59E-02	transmembrane protein 39A
ENSMMUG00000012010	N/A	1.75	3.59E-02	N/A
ENSMMUG00000039762	<i>MYORG</i>	-0.62	3.62E-02	Myogenesis regulating glycosidase (putative)
ENSMMUG00000019974	<i>NARS</i>	0.50	3.62E-02	asparaginyl-tRNA synthetase 1
ENSMMUG00000013718	<i>TRAM2</i>	-0.51	3.63E-02	translocation associated membrane protein 2
ENSMMUG00000013848	<i>FUT8</i>	-0.44	3.66E-02	fucosyltransferase 8
ENSMMUG00000008101	<i>SPATS2L</i>	-0.40	3.69E-02	spermatogenesis associated serine rich 2 like

ENSMMUG00000004020	<i>FUT1</i>	1.50	3.70E-02	fucosyltransferase 1 (H blood group)
ENSMMUG00000012254	<i>ARHGEF12</i>	-0.49	3.71E-02	Rho guanine nucleotide exchange factor 12
ENSMMUG00000009511	<i>TRIB1</i>	0.95	3.75E-02	tribbles pseudokinase 1
ENSMMUG00000002116	<i>ASB1</i>	0.73	3.75E-02	ankyrin repeat and SOCS box containing 1
ENSMMUG00000004885	<i>BTG3</i>	0.43	3.75E-02	BTG anti-proliferation factor 3
ENSMMUG000000021759	<i>QSOX2</i>	0.53	3.75E-02	quiescin sulphydryl oxidase 2
ENSMMUG00000015414	<i>FAM160B1</i>	-0.51	3.75E-02	FHF complex subunit HOOK interacting protein 2A
ENSMMUG000000020664	<i>FLRT2</i>	-0.46	3.75E-02	fibronectin leucine rich transmembrane protein 2
ENSMMUG000000005573	<i>LMBRD1</i>	-0.49	3.78E-02	LMBR1 domain containing 1
ENSMMUG00000015860	<i>C11H12orf29</i>	0.69	3.79E-02	chromosome 11 C12orf29 homolog
ENSMMUG00000018095	<i>EIF2S2</i>	0.46	3.81E-02	eukaryotic translation initiation factor 2 subunit beta
ENSMMUG00000013984	<i>ABLIM2</i>	-0.70	3.83E-02	actin binding LIM protein family member 2
ENSMMUG00000005355	<i>TIMP2</i>	-0.50	3.86E-02	TIMP metalloproteinase inhibitor 2
ENSMMUG00000001811	<i>FMN1</i>	-0.64	3.86E-02	formin 1
ENSMMUG00000001511	<i>SMIM3</i>	0.45	3.86E-02	small integral membrane protein 3
ENSMMUG000000040546	<i>KIF20A</i>	-0.89	3.86E-02	kinesin family member 20A
ENSMMUG000000020823	<i>VCL</i>	-0.53	3.86E-02	vinculin
ENSMMUG000000040229	<i>N/A</i>	-1.34	3.89E-02	N/A
ENSMMUG000000023406	<i>HID1</i>	0.56	3.89E-02	HID1 domain containing
ENSMMUG00000017232	<i>BMPER</i>	0.76	3.90E-02	BMP binding endothelial regulator
ENSMMUG000000046717	<i>LOC100427851</i>	0.92	3.92E-02	Ferritin light chain pseudogene
ENSMMUG00000016810	<i>PAX6</i>	-0.41	3.94E-02	paired box 6
ENSMMUG00000015352	<i>ECHDC1</i>	-0.51	3.96E-02	ethylmalonyl-CoA decarboxylase 1
ENSMMUG00000015925	<i>GRK2</i>	0.41	3.96E-02	G protein-coupled receptor kinase 2
ENSMMUG00000012563	<i>IFNAR2</i>	0.45	3.97E-02	interferon alpha and beta receptor subunit 2
ENSMMUG00000012243	<i>APBB2</i>	-0.40	3.97E-02	amyloid beta precursor protein binding family B member 2
ENSMMUG000000022702	<i>GART</i>	0.43	3.97E-02	phosphoribosylglycinamide formyltransferase
ENSMMUG00000003956	<i>FAM76A</i>	-0.47	3.97E-02	family with sequence similarity 76 member A
ENSMMUG00000000123	<i>NHSL1</i>	0.69	3.98E-02	NHS like 1
ENSMMUG000000021813	<i>NDUFAF2</i>	0.65	3.99E-02	NADH:ubiquinone oxidoreductase complex assembly factor 2
ENSMMUG000000047687	<i>RF01871</i>	-0.68	3.99E-02	N/A
ENSMMUG00000009926	<i>SERPINE1</i>	0.57	4.00E-02	serpin family E member 1
ENSMMUG00000009559	<i>MCMBP</i>	0.44	4.02E-02	minichromosome maintenance complex binding protein
ENSMMUG00000015540	<i>BTBD11</i>	-0.47	4.05E-02	BTB domain containing 11
ENSMMUG000000037904	<i>PGRMC2</i>	-0.46	4.05E-02	progesterone receptor membrane component 2
ENSMMUG000000000427	<i>BUD31</i>	0.51	4.07E-02	BUD31 homolog
ENSMMUG000000030046	<i>FNIP2</i>	0.82	4.07E-02	folliculin interacting protein 2
ENSMMUG000000023056	<i>CLCN5</i>	0.64	4.10E-02	chloride voltage-gated channel 5
ENSMMUG000000022060	<i>ARHGAP9</i>	1.57	4.11E-02	Rho GTPase activating protein 9
ENSMMUG000000006841	<i>MYOF</i>	-0.39	4.12E-02	myoferlin
ENSMMUG00000013782	<i>LAMA4</i>	-0.37	4.14E-02	laminin subunit alpha 4
ENSMMUG000000032084	<i>PARS2</i>	0.51	4.14E-02	prolyl-tRNA synthetase 2, mitochondrial
ENSMMUG000000021243	<i>ZBTB47</i>	-0.48	4.15E-02	zinc finger and BTB domain containing 47
ENSMMUG000000004408	<i>SEC11C</i>	0.48	4.16E-02	SEC11 homolog C, signal peptidase complex subunit
ENSMMUG000000003154	<i>SLC39A4</i>	-0.61	4.16E-02	solute carrier family 39 member 4
ENSMMUG000000000750	<i>RFFL</i>	0.53	4.16E-02	ring finger and FYVE like domain containing E3 ubiquitin protein ligase
ENSMMUG00000013888	<i>NOP56</i>	0.54	4.16E-02	NOP56 ribonucleoprotein
ENSMMUG000000002100	<i>MITF</i>	-0.59	4.17E-02	melanocyte inducing transcription factor
ENSMMUG00000011665	<i>MMAB</i>	-0.49	4.21E-02	metabolism of cobalamin associated B
ENSMMUG00000017161	<i>ANKRD11</i>	0.45	4.22E-02	ankyrin repeat domain containing 11

ENSMMUG00000040952	<i>TIGD7</i>	-1.11	4.22E-02	tigger transposable element derived 7
ENSMMUG00000009549	<i>CLDND1</i>	0.50	4.24E-02	claudin domain containing 1
ENSMMUG00000011218	<i>SERPINA3</i>	1.66	4.24E-02	serpin family A member 3
ENSMMUG00000001941	<i>CXXC5</i>	-0.42	4.25E-02	CXXC finger protein 5
ENSMMUG00000021181	<i>PCDH10</i>	-1.63	4.25E-02	protocadherin 10
ENSMMUG00000004930	<i>MAP3K8</i>	0.89	4.25E-02	mitogen-activated protein kinase kinase kinase 8
ENSMMUG00000001420	<i>SESN3</i>	-0.50	4.25E-02	sestrin 3
ENSMMUG00000023149	<i>MFAP2</i>	-0.79	4.25E-02	microfibril associated protein 2
ENSMMUG00000009394	<i>LRRC25</i>	1.42	4.25E-02	leucine rich repeat containing 25
ENSMMUG00000005469	<i>ERMP1</i>	-0.55	4.29E-02	endoplasmic reticulum metalloproteinase 1
ENSMMUG00000046631	<i>RFLNA</i>	-0.59	4.29E-02	refilin A
ENSMMUG00000005959	<i>GK</i>	0.74	4.30E-02	glycerol kinase
ENSMMUG00000020147	<i>CSRNP1</i>	0.76	4.30E-02	glycerol kinase
ENSMMUG00000013716	<i>EFHC1</i>	-0.43	4.34E-02	cysteine and serine rich nuclear protein 1
ENSMMUG00000028670	<i>FGF2</i>	0.57	4.34E-02	EF-hand domain containing 1
ENSMMUG00000007419	<i>GASK1B</i>	-0.70	4.37E-02	fibroblast growth factor 2
ENSMMUG00000008547	<i>CYTB</i>	-0.51	4.37E-02	golgi associated kinase 1B
ENSMMUG00000019238	<i>RNPS1</i>	0.42	4.37E-02	Cytochrome b
ENSMMUG00000019634	<i>RRP12</i>	0.67	4.40E-02	RNA binding protein with serine rich domain 1
ENSMMUG00000009833	<i>SHC4</i>	1.14	4.40E-02	ribosomal RNA processing 12 homolog
ENSMMUG00000019993	<i>SESN2</i>	1.00	4.42E-02	SHC adaptor protein 4
ENSMMUG00000047956	<i>CDC42SE2</i>	0.47	4.43E-02	sestrin 2
ENSMMUG00000001134	<i>LOC709988</i>	-0.43	4.44E-02	CDC42 small effector 2
ENSMMUG00000018870	<i>C15H9orf64</i>	0.55	4.47E-02	cyclin-dependent kinase inhibitor 2A
ENSMMUG00000015758	<i>GLIS2</i>	-0.80	4.51E-02	chromosome 15 C9orf64 homolog
ENSMMUG00000015774	<i>NPM3</i>	0.45	4.51E-02	GLIS family zinc finger 2
ENSMMUG00000020359	<i>SPTBN2</i>	-0.62	4.51E-02	nucleophosmin/nucleoplasmin 3
ENSMMUG00000017133	<i>SLC12A6</i>	-0.43	4.51E-02	spectrin beta, non-erythrocytic 2
ENSMMUG00000020935	<i>N/A</i>	0.53	4.52E-02	solute carrier family 12 member 6
ENSMMUG00000019269	<i>ACTR8</i>	0.44	4.52E-02	N/A
ENSMMUG00000011513	<i>VCAN</i>	-0.55	4.57E-02	actin related protein 8
ENSMMUG00000014122	<i>CAV1</i>	-0.53	4.62E-02	versican
ENSMMUG00000000873	<i>TRPV2</i>	-0.50	4.64E-02	caveolin 1
ENSMMUG00000015614	<i>RABGGTB</i>	0.50	4.66E-02	transient receptor potential cation channel subfamily V member 2
ENSMMUG00000007367	<i>RARB</i>	-0.79	4.66E-02	Rab geranylgeranyltransferase subunit beta
ENSMMUG00000030573	<i>ADIRF</i>	-0.43	4.67E-02	retinoic acid receptor beta
ENSMMUG00000020074	<i>PKDCC</i>	-0.47	4.69E-02	adipogenesis regulatory factor
ENSMMUG00000019746	<i>YARS</i>	0.48	4.69E-02	protein kinase domain containing, cytoplasmic
ENSMMUG00000013359	<i>SLC11A1</i>	-0.60	4.74E-02	tyrosyl-tRNA synthetase 1
ENSMMUG00000006553	<i>DVL3</i>	-0.45	4.75E-02	solute carrier family 11 member 1
ENSMMUG00000020965	<i>EFNB1</i>	-0.42	4.77E-02	dishevelled segment polarity protein 3
ENSMMUG00000006548	<i>SH2D4A</i>	-0.60	4.79E-02	ephrin B1
ENSMMUG00000000129	<i>KIAA1549</i>	-0.53	4.81E-02	SH2 domain containing 4A
ENSMMUG00000021053	<i>ANXA6</i>	-0.43	4.81E-02	KIAA1549
ENSMMUG00000041923	<i>NFKBIE</i>	0.54	4.82E-02	annexin A6
ENSMMUG00000022689	<i>NANS</i>	0.45	4.83E-02	NFKB inhibitor epsilon
ENSMMUG00000015072	<i>PREX1</i>	0.56	4.83E-02	N-acetylneuraminase synthase
ENSMMUG00000041404	<i>LYNX1</i>	-0.40	4.84E-02	phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1
ENSMMUG00000042262	<i>PMP22</i>	-0.42	4.85E-02	Ly6/neurotoxin 1
ENSMMUG00000002206	<i>NOS1AP</i>	-1.11	4.85E-02	peripheral myelin protein 22
ENSMMUG00000003036	<i>GMIP</i>	-0.72	4.85E-02	nitric oxide synthase 1 adaptor protein
ENSMMUG00000019393	<i>TNS3</i>	-0.39	4.86E-02	GEM interacting protein

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ENSMMUG00000021553	<i>DHRS13</i>	0.90	4.90E-02	tensin 3
ENSMMUG00000044197	<i>INHBA</i>	-0.73	4.91E-02	dehydrogenase/reductase 13
ENSMMUG00000006069	<i>FNDC11</i>	-0.81	4.95E-02	inhibin subunit beta A
ENSMMUG00000019983	<i>IL6</i>	1.36	4.98E-02	fibronectin type III domain containing 11
ENSMMUG00000001226	<i>HMGCS1</i>	-3.10	4.98E-02	interleukin 6

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**Table S2.** Complete list of the reversion effect exert by 10  $\mu$ M treatment over 15  $\mu$ M 7KCh-altered genes in mRPE cells. Log2FC and FDR values correspond to the comparison of the combined treatment with 7KCh alone.

Ensemble ID	Gene ID	Log2FC	FDR	Gene description
ENSMMUG00000001618	<i>ATP6V0D2</i>	-4.77	4.67E-60	ATPase H <sup>+</sup> transporting V0 subunit D2
ENSMMUG000000012185	<i>ATF3</i>	-2.36	2.29E-30	activating transcription factor 3
ENSMMUG00000000208	<i>NRG1</i>	-2.28	4.08E-30	neuregulin 1
ENSMMUG000000011593	<i>RGCC</i>	-3.57	1.62E-29	regulator of cell cycle
ENSMMUG000000000006	<i>NEURL3</i>	-4.23	8.12E-28	neuralized E3 ubiquitin protein ligase 3
ENSMMUG000000019777	<i>IL1A</i>	-3.07	7.81E-25	interleukin 1 alpha
ENSMMUG000000010189	<i>TMEM71</i>	-2.68	5.16E-23	transmembrane protein 71
ENSMMUG000000001511	<i>KIF20A</i>	2.00	1.62E-21	kinesin family member 20A
ENSMMUG000000009852	<i>CASP1</i>	-2.10	4.20E-21	caspase-1
ENSMMUG000000014176	<i>CYTIP</i>	-2.69	7.14E-21	cytohesin 1 interacting protein
ENSMMUG000000023801	<i>LCN2</i>	-2.65	2.27E-19	lipocalin 2
ENSMMUG000000045506	<i>MAFF</i>	-1.79	3.47E-19	MAF bZIP transcription factor F
ENSMMUG000000014430	<i>FOSB</i>	-4.42	5.08E-19	FosB proto-oncogene, AP-1 transcription factor subunit
ENSMMUG000000041958	<i>BHLHA15</i>	-4.03	2.53E-18	basic helix-loop-helix family member a15
ENSMMUG000000019326	<i>CTH</i>	-1.71	2.83E-18	cystathionine gamma-lyase
ENSMMUG000000007037	<i>UPP1</i>	-1.71	3.54E-18	uridine phosphorylase 1
ENSMMUG000000044653	<i>CLDN4</i>	-2.58	6.60E-17	claudin 4
ENSMMUG000000008335	<i>SAT1</i>	-1.60	1.42E-16	spermidine/spermine N1-acetyltransferase 1
ENSMMUG000000003708	<i>PDE7B</i>	-2.11	1.45E-16	phosphodiesterase 7B
ENSMMUG000000013290	<i>LURAP1L</i>	-1.92	9.56E-16	leucine rich adaptor protein 1 like
ENSMMUG000000048596	<i>CXCL2</i>	-2.07	1.94E-14	C-X-C motif chemokine ligand 2
ENSMMUG000000009223	<i>PPP1R15A</i>	-1.53	2.09E-14	protein phosphatase 1 regulatory subunit 15A
ENSMMUG000000006867	<i>MYPN</i>	-2.62	2.88E-14	myopalladin
ENSMMUG000000006088	<i>KLF4</i>	-2.12	3.03E-14	Kruppel like factor 4
ENSMMUG000000004504	<i>KITLG</i>	-2.23	4.19E-14	KIT ligand
ENSMMUG000000004403	<i>ID1</i>	1.46	6.12E-14	inhibitor of DNA binding 1, HLH protein
ENSMMUG000000020806	<i>ABCC9</i>	-2.05	7.20E-14	ATP binding cassette subfamily C member 9
ENSMMUG000000019157	<i>ASNS</i>	-1.42	8.22E-14	asparagine synthetase (glutamine-hydrolyzing)
ENSMMUG000000008869	<i>TNFAIP3</i>	-1.77	2.26E-13	TNF alpha induced protein 3
ENSMMUG000000020157	<i>GBP6</i>	-1.94	3.77E-12	guanylate binding protein family member 6
ENSMMUG000000015329	<i>MX1</i>	-2.29	4.73E-12	MX dynamin like GTPase 1
ENSMMUG000000003721	<i>KLF15</i>	-2.49	1.07E-11	Kruppel like factor 15
ENSMMUG000000011868	<i>PSAT1</i>	-1.28	1.93E-11	phosphoserine aminotransferase 1
ENSMMUG000000010927	<i>TNFAIP6</i>	-2.04	2.54E-11	TNF alpha induced protein 6
ENSMMUG000000016040	<i>RND3</i>	-1.27	2.64E-11	Rho family GTPase 3
ENSMMUG000000023089	<i>PHGDH</i>	-1.46	2.64E-11	phosphoglycerate dehydrogenase
ENSMMUG000000012600	<i>TRIB3</i>	-1.23	1.93E-10	tribbles pseudokinase 3
ENSMMUG000000019983	<i>IL6</i>	-2.28	1.16E-09	interleukin 6
ENSMMUG000000005947	<i>SAMD11</i>	1.33	2.24E-09	sterile alpha motif domain containing 11
ENSMMUG000000016938	<i>DFNA5</i>	-1.21	2.60E-09	gasdermin E
ENSMMUG000000019996	<i>ENC1</i>	1.21	2.90E-09	ectodermal-neural cortex 1
ENSMMUG000000023257	<i>NFIL3</i>	-1.41	4.91E-09	nuclear factor, interleukin 3 regulated
ENSMMUG000000042454	<i>PHLDA1</i>	-1.15	4.91E-09	pleckstrin homology like domain family A member 1
ENSMMUG000000008033	<i>IFRD1</i>	-1.16	6.55E-09	interferon related developmental regulator 1
ENSMMUG000000000947	<i>MSC</i>	-1.16	6.56E-09	musculin
ENSMMUG000000022481	<i>CYP1A1</i>	-2.54	7.50E-09	cytochrome P450 family 1 subfamily A member 1
ENSMMUG000000015158	<i>SLC6A9</i>	-1.32	8.81E-09	solute carrier family 6 member 9
ENSMMUG000000010601	<i>PRG2</i>	-1.58	8.81E-09	proteoglycan 2, pro eosinophil major basic protein

ENSMMUG00000032156	<i>C3AR1</i>	-1.53	1.20E-08	complement C3a receptor 1
ENSMMUG00000009289	<i>CBS</i>	-1.47	1.20E-08	cystathionine beta-synthase
ENSMMUG00000001819	<i>ISG15</i>	-1.32	1.29E-08	ISG15 ubiquitin like modifier
ENSMMUG00000000567	<i>BAMBI</i>	1.20	2.30E-08	BMP and activin membrane bound inhibitor
ENSMMUG00000006269	<i>CSTA</i>	-2.05	3.69E-08	cystatin A
ENSMMUG00000009084	<i>TM6SF1</i>	-2.72	3.98E-08	transmembrane 6 superfamily member 1
ENSMMUG00000019993	<i>SESN2</i>	-1.05	1.35E-07	sestrin 2
ENSMMUG00000045219	<i>CEBPB</i>	-1.20	1.58E-07	CCAAT enhancer binding protein beta
ENSMMUG00000017169	<i>FAM107B</i>	-1.33	1.58E-07	family with sequence similarity 107 member B
ENSMMUG00000011845	<i>HK2</i>	-1.09	2.31E-07	hexokinase 2
ENSMMUG00000016848	<i>SLCO4A1</i>	-1.06	2.38E-07	solute carrier organic anion transporter family member 4A1
ENSMMUG00000013610	<i>ETV5</i>	-1.04	2.50E-07	ETS variant transcription factor 5
ENSMMUG00000022873	<i>SERPINB8</i>	-1.19	2.75E-07	serpin family B member 8
ENSMMUG00000007090	<i>DOK5</i>	-1.10	2.90E-07	docking protein 5
ENSMMUG00000019992	<i>GRB10</i>	-1.63	3.32E-07	growth factor receptor bound protein 10
ENSMMUG00000008140	<i>SGK1</i>	-1.01	4.12E-07	serum/glucocorticoid regulated kinase 1
ENSMMUG00000000265	<i>ADAMTS9</i>	-1.34	5.22E-07	ADAM metalloproteinase with thrombospondin type 1 motif 9
ENSMMUG00000039576	<i>N/A</i>	-1.00	6.78E-07	N/A
ENSMMUG00000013797	<i>GFPT1</i>	-1.01	8.26E-07	glutamine--fructose-6-phosphate transaminase 1
ENSMMUG00000019849	<i>BMP2</i>	-1.30	9.44E-07	bone morphogenetic protein 2
ENSMMUG00000002052	<i>SPSB1</i>	-1.22	9.48E-07	splA/ryanodine receptor domain and SOCS box containing 1
ENSMMUG00000004577	<i>VEGFA</i>	-0.97	1.15E-06	vascular endothelial growth factor A
ENSMMUG00000009914	<i>SMAD9</i>	1.30	1.82E-06	SMAD family member 9
ENSMMUG00000013059	<i>GPR180</i>	-0.97	1.83E-06	G protein-coupled receptor 180
ENSMMUG00000020608	<i>ABCA1</i>	-0.96	3.65E-06	ATP binding cassette subfamily A member 1
ENSMMUG00000040573	<i>PMAIP1</i>	-1.13	5.38E-06	phorbol-12-myristate-13-acetate-induced protein 1
ENSMMUG00000001952	<i>SRGAP1</i>	-1.31	5.76E-06	SLIT-ROBO Rho GTPase activating protein 1
ENSMMUG00000001031	<i>ABHD5</i>	-0.91	7.26E-06	abhydrolase domain containing 5, lysophosphatidic acid acyltransferase
ENSMMUG00000002517	<i>PTPDC1</i>	-2.16	9.59E-06	protein tyrosine phosphatase domain containing 1
ENSMMUG00000021590	<i>PCK2</i>	-0.96	1.12E-05	phosphoenolpyruvate carboxykinase 2, mitochondrial
ENSMMUG00000021759	<i>TRIB1</i>	-1.01	1.20E-05	tribbles pseudokinase 1
ENSMMUG00000043586	<i>ID3</i>	0.93	1.21E-05	inhibitor of DNA binding 3, HLH protein
ENSMMUG00000007419	<i>FGF2</i>	-1.01	1.21E-05	fibroblast growth factor 2
ENSMMUG00000041399	<i>UBAP1L</i>	-2.03	1.26E-05	ubiquitin associated protein 1 like
ENSMMUG00000002933	<i>NR1D1</i>	-1.30	1.33E-05	nuclear receptor subfamily 1 group D member 1
ENSMMUG00000010514	<i>SLC6A20</i>	0.92	1.37E-05	solute carrier family 6 member 20
ENSMMUG00000014219	<i>OSGIN1</i>	-1.04	1.47E-05	oxidative stress induced growth inhibitor 1
ENSMMUG00000005217	<i>HSPA5</i>	-0.86	1.69E-05	heat shock protein family A (Hsp70) member 5
ENSMMUG00000012895	<i>PYCR1</i>	-0.92	2.08E-05	pyrroline-5-carboxylate reductase 1
ENSMMUG00000011999	<i>SLC38A1</i>	-0.87	2.97E-05	solute carrier family 38 member 1
ENSMMUG00000048076	<i>TNFRSF10B</i>	-0.88	2.97E-05	TNF receptor superfamily member 10b
ENSMMUG00000022163	<i>SLC1A5</i>	-0.86	3.18E-05	solute carrier family 1 member 5
ENSMMUG00000018907	<i>ERFE</i>	-1.12	3.39E-05	erythroferrone
ENSMMUG00000017232	<i>BMPER</i>	-1.37	3.56E-05	BMP binding endothelial regulator
ENSMMUG00000045851	<i>N/A</i>	-0.86	4.54E-05	N/A
ENSMMUG00000007659	<i>XPOT</i>	-0.87	4.68E-05	exportin for tRNA
ENSMMUG00000030046	<i>FNIP2</i>	-0.86	5.00E-05	folliculin interacting protein 2
ENSMMUG00000005742	<i>CDCP1</i>	-0.99	5.23E-05	CUB domain containing protein 1
ENSMMUG00000009063	<i>ETS2</i>	-0.84	5.27E-05	ETS proto-oncogene 2, transcription factor

ENSMMUG00000018192	<i>RORA</i>	-1.24	5.41E-05	RAR related orphan receptor A
ENSMMUG00000009238	<i>IL1RL1</i>	-1.43	5.80E-05	interleukin 1 receptor like 1
ENSMMUG00000041498	<i>TRAF1</i>	-0.92	5.92E-05	TNF receptor associated factor 1
ENSMMUG00000016223	<i>MYCL</i>	-1.11	8.82E-05	MYCL proto-oncogene, bHLH transcription factor
ENSMMUG00000023265	<i>AKAP12</i>	-0.82	9.82E-05	A-kinase anchoring protein 12
ENSMMUG00000031911	<i>KRT18</i>	-0.83	1.03E-04	keratin 18
ENSMMUG00000014542	<i>CHAC1</i>	-1.06	1.17E-04	ChaC glutathione specific gamma-glutamylcystotransferase 1
ENSMMUG00000006127	<i>CEBPG</i>	-0.87	1.23E-04	CCAAT enhancer binding protein gamma
ENSMMUG00000019072	<i>DAAM2</i>	0.81	1.55E-04	dishevelled associated activator of morphogenesis 2
ENSMMUG00000044497	<i>C15orf48</i>	-1.21	1.55E-04	chromosome 15 open reading frame 48
ENSMMUG00000019850	<i>ALOXE3</i>	-1.78	1.56E-04	arachidonate lipoxygenase 3
ENSMMUG00000021837	<i>SARS1</i>	-0.82	1.69E-04	seryl-tRNA synthetase 1
ENSMMUG00000040972	<i>KCNK3</i>	1.24	2.31E-04	potassium two pore domain channel subfamily K member 3
ENSMMUG00000017327	<i>SLAMF7</i>	-2.39	2.59E-04	SLAM family member 7
ENSMMUG00000012010	<i>TMEM39A</i>	-0.79	2.61E-04	transmembrane protein 39A
ENSMMUG00000010594	<i>PTGFR</i>	-0.99	2.96E-04	prostaglandin F receptor
ENSMMUG00000006971	<i>ARF3</i>	-0.93	3.22E-04	ADP ribosylation factor 3
ENSMMUG00000014952	<i>NUP210L</i>	-0.98	3.51E-04	Nucleoporin 210 like
ENSMMUG00000019126	<i>PNP</i>	-0.76	3.65E-04	purine nucleoside phosphorylase
ENSMMUG00000013407	<i>ADAMTS1</i>	-0.95	4.34E-04	ADAM metalloproteinase with thrombospondin type 1 motif 1
ENSMMUG00000021189	<i>RF02216</i>	-1.06	4.70E-04	N/A
ENSMMUG00000015817	<i>TMTC1</i>	0.77	5.14E-04	transmembrane O-mannosyltransferase targeting cadherins 1
ENSMMUG00000016418	<i>CBX4</i>	-0.79	5.80E-04	chromobox 4
ENSMMUG00000009739	<i>MTHFD2</i>	-0.77	6.06E-04	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase
ENSMMUG00000016074	<i>LFNG</i>	1.19	7.22E-04	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
ENSMMUG00000011294	<i>LSR</i>	-0.72	8.12E-04	lipolysis stimulated lipoprotein receptor
ENSMMUG00000010531	<i>PTH1H</i>	-1.81	8.80E-04	parathyroid hormone like hormone
ENSMMUG00000004719	<i>GARS1</i>	-0.73	8.95E-04	glycyl-tRNA synthetase 1
ENSMMUG00000000664	<i>RRAS2</i>	-0.74	9.23E-04	RAS related 2
ENSMMUG00000007798	<i>CLMP</i>	-1.30	1.04E-03	CXADR like membrane protein
ENSMMUG00000012223	<i>BCAT1</i>	-1.00	1.04E-03	branched chain amino acid transaminase 1
ENSMMUG00000021785	<i>SHMT2</i>	-0.70	1.08E-03	serine hydroxymethyltransferase 2
ENSMMUG00000018053	<i>ZBTB21</i>	-0.71	1.08E-03	zinc finger and BTB domain containing 21
ENSMMUG00000013640	<i>ZBTB43</i>	-0.72	1.13E-03	zinc finger and BTB domain containing 43
ENSMMUG00000014498	<i>CACNA1E</i>	-1.24	1.26E-03	calcium voltage-gated channel subunit alpha1 E
ENSMMUG00000019974	<i>NARS1</i>	-0.71	1.29E-03	asparaginyl-tRNA synthetase 1
ENSMMUG00000005875	<i>HSPA9</i>	-0.66	1.33E-03	heat shock protein family A (Hsp70) member 9
ENSMMUG00000003292	<i>SLC38A10</i>	0.71	1.33E-03	solute carrier family 38 member 10
ENSMMUG00000019018	<i>SMAD6</i>	0.94	1.36E-03	SMAD family member 6
ENSMMUG00000017631	<i>NA</i>	-0.77	1.45E-03	secreted protein
ENSMMUG00000022066	<i>UTP25</i>	-0.78	1.45E-03	UTP25 small subunit processor component
ENSMMUG00000007906	<i>CDC42EP3</i>	-0.72	1.51E-03	CDC42 effector protein 3
ENSMMUG00000018058	<i>ABCG1</i>	-0.73	1.54E-03	ATP binding cassette subfamily G member 1
ENSMMUG00000013865	<i>SLC25A47</i>	-0.71	1.54E-03	solute carrier family 25 member 47
ENSMMUG00000012634	<i>GTF2F2</i>	-0.69	1.57E-03	general transcription factor IIF subunit 2
ENSMMUG00000016294	<i>SYCP2</i>	-1.02	1.87E-03	synaptonemal complex protein 2
ENSMMUG00000019270	<i>MTO1</i>	-0.69	1.93E-03	mitochondrial tRNA translation optimization 1

ENSMMUG00000010147	<i>PLA2G15</i>	0.82	2.04E-03	phospholipase A2 group XV
ENSMMUG00000042787	<i>N/A</i>	-2.55	2.04E-03	<i>N/A</i>
ENSMMUG00000040286	<i>N/A</i>	1.10	2.16E-03	<i>N/A</i>
ENSMMUG00000018116	<i>JAG1</i>	-0.89	2.17E-03	jagged canonical Notch ligand 1
ENSMMUG00000005778	<i>FOXC1</i>	-1.03	2.63E-03	forkhead box C1
ENSMMUG00000041773	<i>FABP5</i>	-0.66	2.80E-03	fatty acid binding protein 5
ENSMMUG00000008094	<i>DUSP4</i>	-1.00	3.49E-03	dual specificity phosphatase 4
ENSMMUG00000008890	<i>GTPBP2</i>	-0.67	3.67E-03	GTP binding protein 2
ENSMMUG00000000511	<i>CARS1</i>	-0.64	4.11E-03	cysteinyl-tRNA synthetase 1
ENSMMUG00000019514	<i>UAP1</i>	-0.67	4.24E-03	UDP-N-acetylglucosamine pyrophosphorylase 1
ENSMMUG00000000123	<i>NHSL1</i>	-0.86	4.27E-03	NHS like 1
ENSMMUG000000021074	<i>RASGEF1B</i>	-0.88	4.27E-03	RasGEF domain family member 1B
ENSMMUG00000004628	<i>IARS1</i>	-0.63	4.28E-03	isoleucyl-tRNA synthetase 1
ENSMMUG00000003587	<i>KLRC1</i>	-1.33	5.12E-03	killer cell lectin like receptor C1
ENSMMUG00000008539	<i>UROS</i>	0.63	5.47E-03	uroporphyrinogen III synthase
ENSMMUG00000014175	<i>SPRY4</i>	-0.90	5.78E-03	sprouty RTK signaling antagonist 4
ENSMMUG00000003585	<i>ALG5</i>	-0.66	6.95E-03	ALG5 dolichyl-phosphate beta-glucosyltransferase
ENSMMUG00000015185	<i>ERN1</i>	-0.66	7.18E-03	endoplasmic reticulum to nucleus signaling 1
ENSMMUG00000008653	<i>FOSL1</i>	-0.69	7.18E-03	FOS like 1, AP-1 transcription factor subunit
ENSMMUG00000006548	<i>KIAA1549</i>	0.80	7.94E-03	KIAA1549
ENSMMUG00000001048	<i>EAF2</i>	-0.81	8.77E-03	ELL associated factor 2
ENSMMUG00000011209	<i>BICDL1</i>	0.70	9.15E-03	BICD family like cargo adaptor 1
ENSMMUG00000007400	<i>SIAH1</i>	-0.63	9.25E-03	siah E3 ubiquitin protein ligase 1
ENSMMUG00000001005	<i>DDX21</i>	-0.61	9.78E-03	DExD-box helicase 21
ENSMMUG00000013531	<i>IPO5</i>	-0.58	1.09E-02	importin 5
ENSMMUG00000008003	<i>LRRC8C</i>	-0.59	1.17E-02	leucine rich repeat containing 8 VRAC subunit C
ENSMMUG00000020365	<i>ARHGAP18</i>	-0.61	1.18E-02	Rho GTPase activating protein 18
ENSMMUG00000009833	<i>SHC4</i>	-1.12	1.22E-02	SHC adaptor protein 4
ENSMMUG00000020147	<i>CSRNP1</i>	-0.68	1.26E-02	cysteine and serine rich nuclear protein 1
ENSMMUG00000002116	<i>BTG3</i>	-0.59	1.29E-02	BTG anti-proliferation factor 3
ENSMMUG00000004020	<i>FUT1</i>	-1.23	1.30E-02	fucosyltransferase 1 (H blood group)
ENSMMUG00000010813	<i>GTPBP4</i>	-0.58	1.36E-02	GTP binding protein 4
ENSMMUG00000015774	<i>NPM3</i>	-0.58	1.47E-02	nucleophosmin/nucleoplasmin 3
ENSMMUG00000024570	<i>LOC114677864</i>	-1.22	1.58E-02	small nucleolar RNA SNORA70
ENSMMUG00000039960	<i>N/A</i>	-1.62	1.70E-02	<i>N/A</i>
ENSMMUG00000022394	<i>EGFR</i>	-0.56	1.98E-02	epidermal growth factor receptor
ENSMMUG00000018773	<i>TM7SF2</i>	0.58	2.08E-02	transmembrane 7 superfamily member 2
ENSMMUG00000003273	<i>BCAM</i>	0.62	2.27E-02	basal cell adhesion molecule (Lutheran blood group)
ENSMMUG00000029011	<i>UBXN8</i>	-0.70	2.29E-02	UBX domain protein 8
ENSMMUG00000020839	<i>SEPHS2</i>	-0.65	2.33E-02	selenophosphate synthetase 2
ENSMMUG00000003288	<i>GPT2</i>	-0.64	2.35E-02	glutamic--pyruvic transaminase 2
ENSMMUG00000020408	<i>HPGD</i>	0.80	2.48E-02	15-hydroxyprostaglandin dehydrogenase
ENSMMUG00000004706	<i>IGSF9</i>	0.57	2.49E-02	immunoglobulin superfamily member 9
ENSMMUG00000009012	<i>FAM3A</i>	0.56	2.50E-02	FAM3 metabolism regulating signaling molecule A
ENSMMUG00000022060	<i>ARHGAP9</i>	-1.86	2.55E-02	Rho GTPase activating protein 9
ENSMMUG00000014601	<i>MYC</i>	-0.56	2.55E-02	MYC proto-oncogene, bHLH transcription factor
ENSMMUG00000019774	<i>MTHFD1L</i>	-0.54	2.72E-02	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1 like
ENSMMUG00000023225	<i>E2F6</i>	-0.69	2.83E-02	E2F transcription factor 6
ENSMMUG00000013848	<i>FUT8</i>	0.57	3.03E-02	fucosyltransferase 8
ENSMMUG00000013984	<i>ABLIM2</i>	0.81	3.15E-02	actin binding LIM protein family member 2
ENSMMUG00000009112	<i>TLR4</i>	-0.80	3.17E-02	toll like receptor 4
ENSMMUG00000015917	<i>ST6GALNAC4</i>	-0.56	3.23E-02	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4

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ENSMMUG00000030891	<i>HYOU1</i>	-0.53	3.42E-02	hypoxia up-regulated 1
ENSMMUG00000016290	<i>WWC3</i>	0.52	3.46E-02	WWC family member 3
ENSMMUG00000010685	<i>SPCS2</i>	-0.53	3.47E-02	signal peptidase complex subunit 2
ENSMMUG00000017946	<i>ROGDI</i>	0.52	3.68E-02	rogdi atypical leucine zipper
ENSMMUG00000015968	<i>CMPK2</i>	-0.89	3.70E-02	cytidine/uridine monophosphate kinase 2
ENSMMUG00000023390	<i>TAX1BP3</i>	0.53	3.77E-02	N/A
ENSMMUG00000008100	<i>IRF1</i>	-0.53	3.87E-02	interferon regulatory factor 1
ENSMMUG00000038480	<i>EIF4EBP1</i>	-0.51	4.12E-02	N/A
ENSMMUG00000042262	<i>NOS1AP</i>	0.96	4.17E-02	nitric oxide synthase 1 adaptor protein
ENSMMUG00000005670	<i>RPS6KA2</i>	-0.65	4.20E-02	ribosomal protein S6 kinase A2
ENSMMUG00000012511	<i>GNL3</i>	-0.53	4.26E-02	G protein nucleolar 3
ENSMMUG00000011328	<i>CPEB1</i>	-0.62	4.40E-02	cytoplasmic polyadenylation element binding protein 1
ENSMMUG00000001283	<i>TP53I3</i>	-0.51	4.43E-02	tumor protein p53 inducible protein 3
ENSMMUG00000001172	<i>SOHLH2</i>	-1.29	4.49E-02	spermatogenesis and oogenesis specific basic helix-loop-helix 2
ENSMMUG00000020354	<i>SLC3A2</i>	-0.48	4.52E-02	solute carrier family 3 member 2
ENSMMUG00000021653	<i>AARS1</i>	-0.51	4.78E-02	alanyl-tRNA synthetase 1
ENSMMUG00000001618	<i>ATP6V0D2</i>	-4.77	4.67E-60	ATPase H <sup>+</sup> transporting V0 subunit D2

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