

Transcriptome of rhesus macaque (*Macaca mulatta*) exposed to total-body irradiation

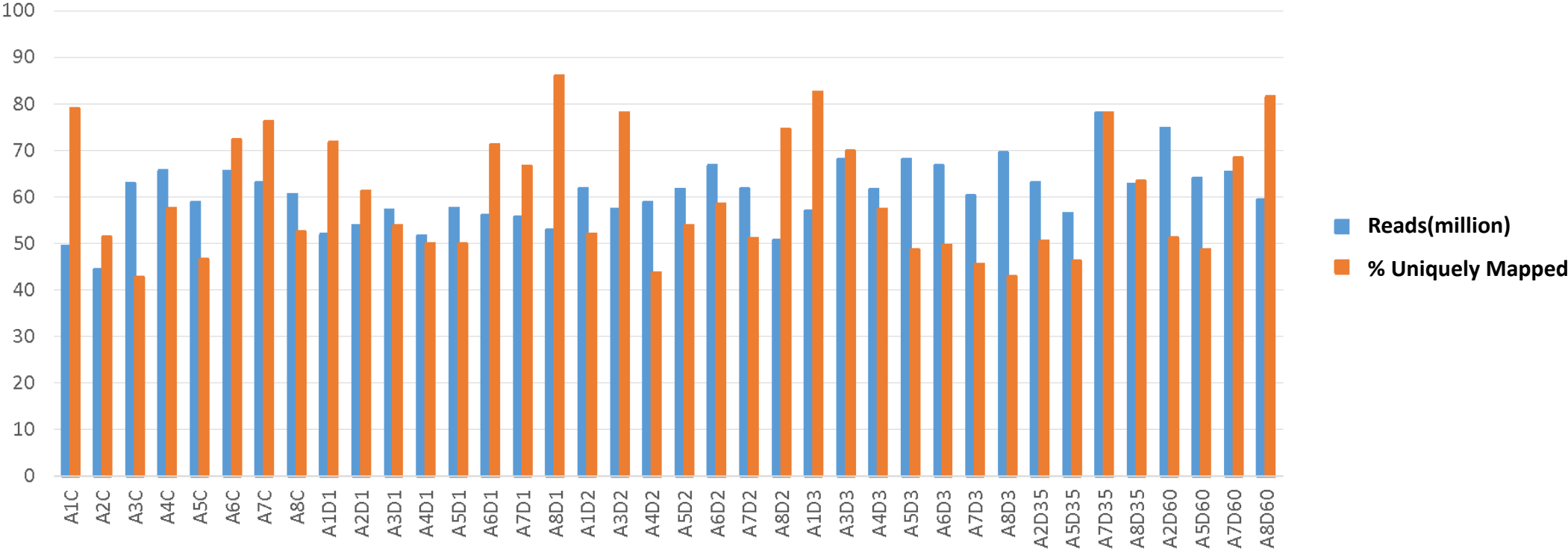
Yaoxiang Li,¹ Jatinder Singh,^{2,3} Rency Varghese,¹ Yubo Zhang,⁴ Oluseyi O. Fatanmi,^{2,3}

Amrita K Cheema,^{1,5} Vijay K Singh^{2,3,*}

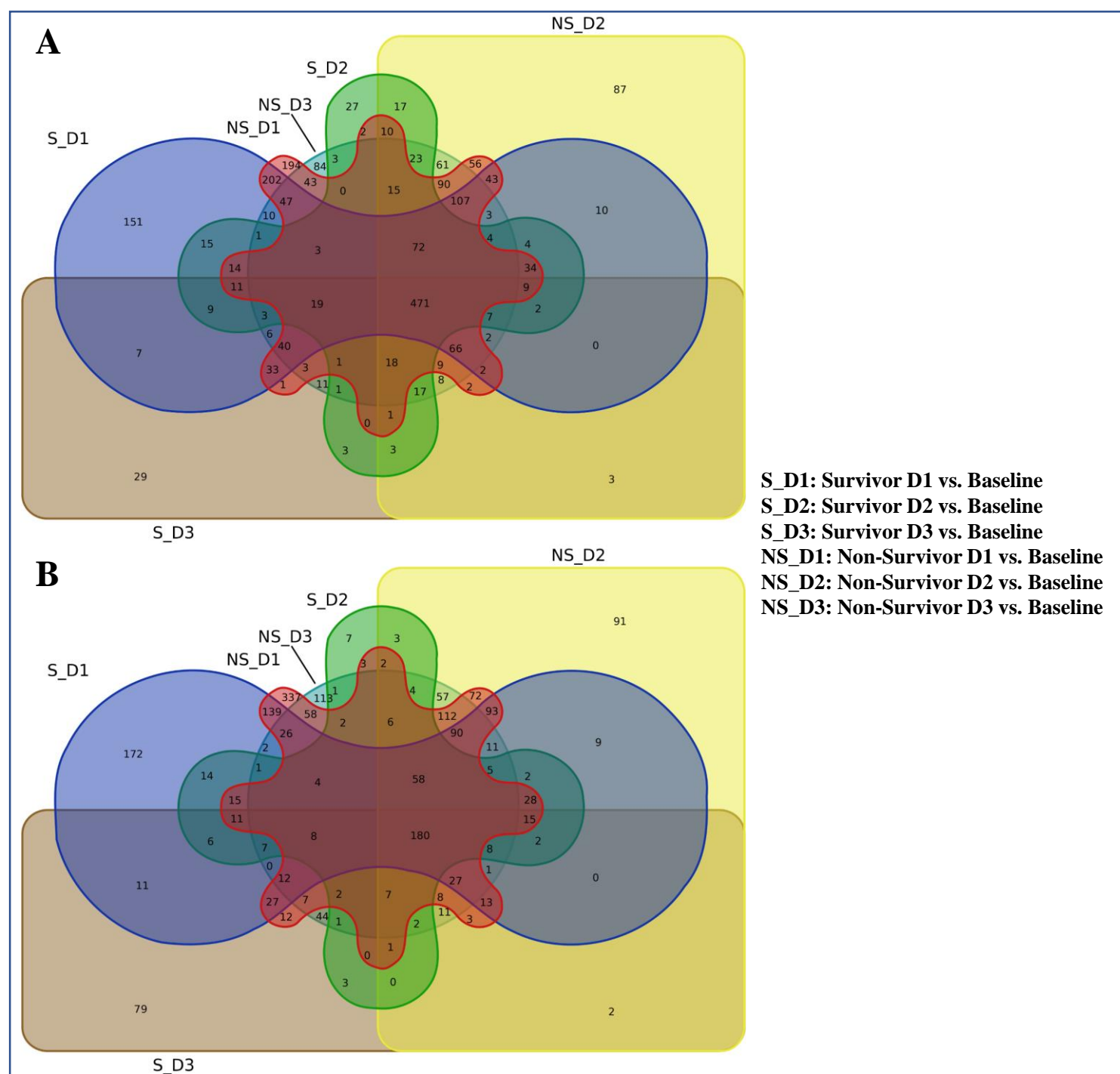
YL and JS have made equal contributions to this study.

¹Department of Oncology, Lombardi Comprehensive Cancer Center, Georgetown University Medical Center, Washington, DC, USA; ²Division of Radioprotectants, Department of Pharmacology and Molecular Therapeutics, F. Edward Hébert School of Medicine, Uniformed Services University of the Health Sciences, Bethesda, MD, USA; ³Armed Forces Radiobiology Research Institute, Uniformed Services University of the Health Sciences, Bethesda, MD, USA; ⁴Department of Biochemistry and Molecular Medicine, George Washington University, Washington DC, USA; ⁵Department of Biochemistry, Molecular and Cellular Biology, Georgetown University Medical Center, Washington DC, USA

Supplementary Figure 1. The percent of uniquely mapped reads (mapping efficiency) of samples to the reference genome ranged from 43% to 86%. Figure is created by the author using Microsoft Excel (URL: <https://www.microsoft.com/en-us/microsoft-365/excel>).



Supplementary Figure 2. 6-way Venn diagram of upregulated (**Panel A**)/ downregulated (**Panel B**) differentially expressed genes (DEGs) with a fold change ≥ 2 , and FDR cut-off of 0.05, in the survivor and non-survivor groups, for days 1, 2, 3 versus baseline. The six groups are color coded to denote significantly expressed genes within each group and overlap across groups. Venn diagram data was processed using R (version 4.0.3, URL: <https://cran.r-project.org/>) and generated using an online tool (<http://bioinformatics.psb.ugent.be/webtools/Venn/>)



Supp. Table 1. NHP Cohort sampling details and survival outcomes

Animal#	NHP#	Sex	Group	Sampling Time Post-Irradiation - Days					
				SD (-7) ^a	SD1	SD2	SD3	SD35	SD60
A1	RA2688M	Male	Veh	X ^b	X	X	X	Dead	-
A2	RA2708M	Male	Veh	X	X	Low RNA	Low RNA	X	X
A3	RA2270F	Female	Veh	X	X	X	X	Dead	-
A4	RA2384F	Female	Veh	X	X	X	X	Dead	-
A5	RA2796M	Male	Veh	X	X	X	X	X	X
A6	RA2693M	Male	Veh	X	X	X	X	Dead	-
A7	RA2698M	Male	Veh	X	X	X	X	X	X
A8	RA2654F	Female	Veh	X	X	X	X	X	X

a. SD (-7)= Sampled 7 days prior to Irradiation

b. X= Sequenced

Supplementary Table 2

A. Overall radiation effects

		SD 1 vs. Baseline		
Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000049101	olfactory receptor 2T10 [Source:NCBI gene;Acc:100431025]	0.498201968	0.018785099	0.046307017
ENSMMUG00000048289	olfactory receptor 2T5-like [Source:NCBI gene;Acc:707109]	0.683801844	0.00463043	0.013910785
		-		
ENSMMUG00000017368	olfactory receptor 2G6 [Source:NCBI gene;Acc:694380]	0.776701367	0.000754872	0.0027938
ENSMMUG00000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	2.59194334	2.13E-41	7.02E-39
ENSMMUG00000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	1.249206954	1.36E-17	3.77E-16
ENSMMUG00000050812		1.175793013	0.001410394	0.004888091
ENSMMUG00000064763		0.944209014	0.000204876	0.000871575
ENSMMUG00000050041	olfactory receptor 2L5 [Source:NCBI gene;Acc:697549]	0.908775468	0.00859237	0.023751136
		-		
ENSMMUG00000006214	olfactory receptor family 11 subfamily L member 1 [Source:HGNC Symbol;Acc:HGNC:14998]	3.030623468	0.000136522	0.000602926
		-		
ENSMMUG00000005955	germinal center associated signaling and motility like [Source:VGNC Symbol;Acc:VGNC:72806]	0.563037253	0.011466013	0.030462374
		-		
ENSMMUG00000005949	olfactory receptor 2B11 [Source:NCBI gene;Acc:709256]	2.168963174	4.39E-05	0.000215432
		-		
ENSMMUG00000004566	zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]	3.467873667	0.000866997	0.003161336
		-		
ENSMMUG00000000021	catsper channel auxiliary subunit epsilon [Source:VGNC Symbol;Acc:VGNC:70657]	3.419497424	0.000546971	0.002108546
		-		
ENSMMUG00000063991		2.427877095	0.00301095	0.009516706
ENSMMUG00000049847		3.078744825	0.005187842	0.015310586
		-		
ENSMMUG00000019994	serologically defined colon cancer antigen 8 [Source:NCBI gene;Acc:705545]	1.069939492	0.005212745	0.015362681
		-		
ENSMMUG00000059561		2.325621318	0.000360686	0.001450371
		-		
ENSMMUG00000004265	phospholipase D family member 5 [Source:VGNC Symbol;Acc:VGNC:76120]	1.700719786	0.002194349	0.007199601
ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	1.040220131	1.91E-07	1.47E-06
ENSMMUG00000005667	fumarate hydratase [Source:VGNC Symbol;Acc:VGNC:72659]	0.687718876	0.000433542	0.001711776
		-		
ENSMMUG00000054974		0.881425983	0.001175644	0.00416602
ENSMMUG00000064824	gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]	2.345141191	1.08E-12	1.77E-11
		-		
ENSMMUG00000059198		1.903796177	0.011917265	0.031480768
		-		
ENSMMUG00000054726		0.667884254	0.01833837	0.045371709
ENSMMUG00000061845		2.350903974	5.66E-10	6.43E-09
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	1.548552956	1.99E-28	1.71E-26
		-		
ENSMMUG00000015132	galectin 8 [Source:VGNC Symbol;Acc:VGNC:74258]	1.212015316	0.001148895	0.004080985
		-		
ENSMMUG00000049832	interferon regulatory factor 2 binding protein 2 [Source:NCBI gene;Acc:718705]	0.638231733	0.014531361	0.03724509
		-		
ENSMMUG00000046785		2.436050369	6.75E-06	3.91E-05
		-		
ENSMMUG00000009226	mitogen-activated protein kinase kinase kinase 21 [Source:NCBI gene;Acc:712755]	0.869824685	4.73E-05	0.000231229
ENSMMUG00000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	3.6018504	1.11E-24	6.47E-23

ENSMMUG00000040055		-	0.683426784	0.000876068	0.003189401
ENSMMUG00000061796		-	1.156977916	0.000234567	0.000986286
ENSMMUG00000012068	signal induced proliferation associated 1 like 2 [Source:NCBI gene;Acc:100425123]		2.531881213	5.01E-12	7.51E-11
ENSMMUG00000052961			2.462399181	6.68E-07	4.68E-06
ENSMMUG00000064226			2.115958719	1.97E-06	1.27E-05
ENSMMUG00000016204	translin associated factor X [Source:NCBI gene;Acc:713347]		3.412761944	0.00125738	0.004416616
ENSMMUG00000050564			1.727577446	0.01092665	0.029186278
ENSMMUG0000005801	glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]		1.973626384	1.13E-15	2.55E-14
ENSMMUG0000005888	tetratricopeptide repeat domain 13 [Source:VGNC Symbol;Acc:VGNC:79588]		0.964054571	1.12E-08	1.04E-07
ENSMMUG0000005886	chromosome 1 C1orf198 homolog [Source:VGNC Symbol;Acc:VGNC:70389]		0.601053007	0.008821616	0.024316834
ENSMMUG0000009508	TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]		1.942057133	4.29E-07	3.10E-06
ENSMMUG00000022094	ATP binding cassette subfamily B member 10 [Source:NCBI gene;Acc:574117]		0.573220389	3.50E-06	2.14E-05
ENSMMUG00000055996			0.722751206	0.003261394	0.010232491
ENSMMUG00000017720	RAB4A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81545]		0.408570552	0.014329518	0.036772235
ENSMMUG00000061914			0.573343598	0.015597098	0.039525798
ENSMMUG00000061675	5S ribosomal RNA [Source:RFAM;Acc:RF00001]		3.079160772	0.01855547	0.04579699
ENSMMUG0000005185	regulator of G protein signaling 4 [Source:VGNC Symbol;Acc:VGNC:76690]		2.717486612	0.006325443	0.018207747
ENSMMUG0000005186	regulator of G protein signaling 5 [Source:NCBI gene;Acc:693510]		0.800922809	0.009360306	0.025582996
ENSMMUG00000001152	NUF2 component of NDC80 kinetochore complex [Source:VGNC Symbol;Acc:VGNC:75405]		0.359450371	0.00397621	0.012165709
ENSMMUG00000039738	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]		1.732908322	0.005097665	0.015086508
ENSMMUG0000005585	transmembrane and coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:79118]		-0.98195721	0.000815985	0.002997535
ENSMMUG00000017789	pogo transposable element derived with KRAB domain [Source:VGNC Symbol;Acc:VGNC:76066]		0.617155699	0.003497011	0.010854054
ENSMMUG00000023463	maelstrom spermatogenic transposon silencer [Source:VGNC Symbol;Acc:VGNC:74362]		1.723218878	0.008082937	0.022536182
ENSMMUG00000051788	dual specificity phosphatase 27, atypical [Source:NCBI gene;Acc:697299]		1.555551462	0.011313269	0.030132144
ENSMMUG00000008155	POU class 2 homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76223]		0.890526417	0.000862155	0.003145327
ENSMMUG00000063120	cellular repressor of E1A stimulated genes 1 [Source:NCBI gene;Acc:701021]		0.690737017	0.001756248	0.005934189
ENSMMUG00000009184	myelin protein zero like 1 [Source:NCBI gene;Acc:698437]		2.227489544	1.17E-08	1.09E-07
ENSMMUG00000010389	DDB1 and CUL4 associated factor 6 [Source:NCBI gene;Acc:698686]		0.507638899	0.016694469	0.041948319
ENSMMUG00000060729	T-box transcription factor 19 [Source:NCBI gene;Acc:699312]		0.501631477	0.008893861	0.024475034
ENSMMUG00000056707			2.536684968	3.90E-06	2.36E-05
ENSMMUG00000059777			1.111908874	2.33E-10	2.81E-09
ENSMMUG00000021078	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70176]		1.150226485	0.000568288	0.002175795
ENSMMUG00000021079	NME/NM23 family member 7 [Source:VGNC Symbol;Acc:VGNC:75221]		0.935527157	0.001014743	0.003648155
ENSMMUG00000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]		1.207146093	3.18E-27	2.48E-25
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]		0.973692833	2.12E-10	2.57E-09
ENSMMUG00000042510	coagulation factor V [Source:NCBI gene;Acc:704695]		1.495706278	6.34E-26	4.13E-24
ENSMMUG00000013044	selectin P [Source:VGNC Symbol;Acc:VGNC:77157]		1.250248938	1.92E-11	2.64E-10
ENSMMUG00000054881			2.933333517	0.018489293	0.045676531
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]		2.855179029	2.10E-37	4.33E-35
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]		2.868716123	3.30E-47	1.96E-44

ENSMMUG00000016581	methyltransferase like 18 [Source:VGNC Symbol;Acc:VGNC:74606]	-	0.994518328	0.014088583	0.036279509
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	-	1.658041922	1.79E-14	3.63E-13
ENSMMUG00000059773	methyltransferase like 11B [Source:NCBI gene;Acc:705503]	-	1.499234137	1.14E-06	7.67E-06
ENSMMUG00000063298		-	1.103610012	0.00038912	0.001554176
ENSMMUG00000014674	golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]	-	1.238384313	1.42E-09	1.52E-08
ENSMMUG0000007279	phosphatidylinositol glycan anchor biosynthesis class C [Source:VGNC Symbol;Acc:VGNC:75986]	-	0.997446031	9.11E-06	5.16E-05
ENSMMUG00000054261		-	1.185589217	0.000639208	0.002418847
ENSMMUG00000022798	aspartyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:71708]	-	0.935957239	2.10E-07	1.60E-06
ENSMMUG00000056971	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.584625438	1.20E-07	9.59E-07
ENSMMUG00000060229		-	1.084755067	0.000664615	0.002500313
ENSMMUG00000025832		-	2.410320957	0.020346544	0.049562951
ENSMMUG00000022801	zinc finger and BTB domain containing 37 [Source:VGNC Symbol;Acc:VGNC:79702]	-	1.280765367	0.000235329	0.00098865
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]	-	1.164723172	5.00E-23	2.47E-21
ENSMMUG00000000630	ring finger and CCCH-type domains 1 [Source:VGNC Symbol;Acc:VGNC:76861]	-	0.580746936	2.21E-05	0.000116402
ENSMMUG00000064770		-	1.140140357	0.002154517	0.007086157
ENSMMUG00000000546	KIAA0040 ortholog [Source:NCBI gene;Acc:100423509]	-	1.094044474	2.45E-05	0.000127808
ENSMMUG00000023216	astrotactin 1 [Source:VGNC Symbol;Acc:VGNC:70167]	-	0.558846206	0.004515024	0.01360378
ENSMMUG00000022935	BMP/retinoic acid inducible neural specific 2 [Source:VGNC Symbol;Acc:VGNC:70303]	-	0.762111977	2.10E-05	0.00011103
ENSMMUG00000020320	protein transport protein Sec16B [Source:NCBI gene;Acc:709635]	-	0.884664137	1.86E-06	1.20E-05
ENSMMUG00000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	-	3.004918591	3.33E-34	5.21E-32
ENSMMUG00000059117	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.211241452	0.000790378	0.002915748
ENSMMUG00000056058	C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]	-	3.316062848	2.07E-07	1.58E-06
ENSMMUG00000054486	testis expressed 35 [Source:NCBI gene;Acc:717255]	-	2.552038198	5.48E-06	3.24E-05
ENSMMUG00000055256	family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]	-	1.496974607	1.73E-14	3.51E-13
ENSMMUG00000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	-	1.532528861	1.35E-26	9.71E-25
ENSMMUG00000053617	torsin 1A interacting protein 2 [Source:NCBI gene;Acc:716691]	-	0.801545086	9.22E-07	6.30E-06
ENSMMUG00000014873	torsin 1A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79810]	-	0.678483974	1.58E-05	8.57E-05
ENSMMUG00000046557	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.770181931	0.015196856	0.038670106
ENSMMUG00000054568		-	1.530000202	5.67E-08	4.73E-07
ENSMMUG00000061785		-	1.516605866	2.70E-26	1.84E-24
ENSMMUG00000052988	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.220831856	0.00289687	0.009220989
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	-	3.867648668	1.24E-13	2.28E-12
ENSMMUG00000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	-	1.720048617	2.17E-22	1.02E-20
ENSMMUG00000005634	ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]	-	1.186849456	9.60E-07	6.53E-06
ENSMMUG00000055481	regulator of G protein signaling 16 [Source:NCBI gene;Acc:715599]	-	0.960087414	5.45E-05	0.000262731
ENSMMUG00000008990	regulator of G protein signaling 8 [Source:NCBI gene;Acc:720353]	-	2.27893476	0.008705046	0.024035716
ENSMMUG00000008992	N-acetylneuraminic acid pyruvate lyase [Source:VGNC Symbol;Acc:VGNC:75191]	-	0.365313313	0.002380027	0.007742005
ENSMMUG00000015084	laminin subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:74232]	-	1.596206061	0.016538494	0.041570487
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	-	3.054677654	3.20E-16	7.59E-15
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	-	3.487285632	1.59E-08	1.44E-07

ENSMMUG00000016399	ral guanine nucleotide dissociation stimulator like 1 [Source:VGNC Symbol;Acc:VGNC:76868]	1.442432899	0.000121949	0.000544895
ENSMMUG00000016405	collagen beta(1-O)galactosyltransferase 2 [Source:NCBI gene;Acc:717508]	1.493500983	0.009102057	0.024964585
ENSMMUG00000064206	tRNA splicing endonuclease subunit 15 [Source:NCBI gene;Acc:717481]	1.135875584	0.017121243	0.042795893
ENSMMUG00000054157		2.379094788	0.005453476	0.015989531
ENSMMUG00000016857	prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]	1.525707172	5.84E-10	6.63E-09
ENSMMUG00000059986		1.147404752	5.40E-08	4.53E-07
ENSMMUG00000062021		1.772230013	3.73E-06	2.27E-05
ENSMMUG00000049590	regulator of G protein signaling 2 [Source:NCBI gene;Acc:712617]	1.904003305	0.006010457	0.017412594
ENSMMUG00000052479		1.434042091	0.000269407	0.001115511
ENSMMUG00000022641	ubiquitin C-terminal hydrolase L5 [Source:VGNC Symbol;Acc:VGNC:79197]	1.190555296	8.78E-05	0.000405853
ENSMMUG00000022643	Ro60, Y RNA binding protein [Source:NCBI gene;Acc:715194]	1.173921781	0.001300549	0.004554224
ENSMMUG00000022647	cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]	1.318990509	9.35E-09	8.79E-08
ENSMMUG00000022648	beta-1,3-galactosyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70205]	1.549386447	6.83E-07	4.78E-06
ENSMMUG00000021082	potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]	0.988803412	3.60E-11	4.82E-10
ENSMMUG00000045497	complement factor H [Source:NCBI gene;Acc:717346]	1.296173401	2.57E-05	0.000133109
ENSMMUG00000000244	coagulation factor XIII B chain [Source:VGNC Symbol;Acc:VGNC:72463]	0.844876139	3.31E-05	0.000167407
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	2.116340629	3.02E-08	2.63E-07
ENSMMUG00000017414	calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]	0.989050521	2.28E-06	1.45E-05
ENSMMUG00000064915	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.7354998	0.004636848	0.013919931
ENSMMUG00000050920	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.613528175	7.21E-05	0.00033846
ENSMMUG00000021642	fibromodulin [Source:VGNC Symbol;Acc:VGNC:72686]	1.460476979	0.000859716	0.003138745
ENSMMUG00000021116	ATPase plasma membrane Ca ²⁺ transporting 4 [Source:VGNC Symbol;Acc:VGNC:70183]	0.855063537	0.009219719	0.02524062
ENSMMUG00000055783		2.961498849	2.90E-08	2.54E-07
ENSMMUG00000008460	SRY-box transcription factor 13 [Source:VGNC Symbol;Acc:VGNC:77839]	3.089400278	0.001862819	0.006257497
ENSMMUG00000064841	golgi transport 1A [Source:NCBI gene;Acc:700305]	3.112953459	0.00190762	0.006391778
ENSMMUG00000017114	pleckstrin homology domain containing A6 [Source:VGNC Symbol;Acc:VGNC:76040]	1.676943103	2.97E-05	0.000152172
ENSMMUG00000063658	leucine rich repeat neuronal 2 [Source:NCBI gene;Acc:100429709]	1.582663606	2.41E-05	0.000125609
ENSMMUG00000018797	contactin 2 [Source:VGNC Symbol;Acc:VGNC:71284]	1.526037751	0.005510787	0.016141611
ENSMMUG00000004113	major facilitator superfamily domain containing 4A [Source:VGNC Symbol;Acc:VGNC:74575]	0.928087651	2.28E-06	1.45E-05
ENSMMUG00000001024	ETS transcription factor ELK4 [Source:VGNC Symbol;Acc:VGNC:72211]	1.310662217	0.009699215	0.02634903
ENSMMUG00000004116	solute carrier family 45 member 3 [Source:VGNC Symbol;Acc:VGNC:77817]	1.538440561	0.00103523	0.003712361

ENSMMUG00000055835	nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]	1.138925832	1.18E-05	6.55E-05
ENSMMUG00000021426	solute carrier family 41 member 1 [Source:VGNC Symbol;Acc:VGNC:77515]	0.473011279	0.008157603	0.022721286
ENSMMUG00000023570	interleukin 19 [Source:NCBI gene;Acc:694806]	3.014085815	0.008332328	0.023161842
ENSMMUG00000022170	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 [Source:VGNC Symbol;Acc:VGNC:75958]	0.394506368	0.007247914	0.020458045
ENSMMUG00000013738	complement component 4 binding protein alpha [Source:VGNC Symbol;Acc:VGNC:70474]	0.345819585	0.004882922	0.014562365
ENSMMUG00000013596	complement C3b/C4b receptor 1 (Knops blood group) [Source:NCBI gene;Acc:718120]	1.402717118	0.001381748	0.00480453
ENSMMUG00000040888	complement C3b/C4b receptor 1 like [Source:HGNC Symbol;Acc:HGNC:2335]	0.52954324	0.002273214	0.00742223
ENSMMUG00000051230		0.832404681	0.000119716	0.000535401
ENSMMUG00000057560		0.902127075	1.16E-10	1.45E-09
ENSMMUG00000064202		1.553494829	2.65E-06	1.66E-05
ENSMMUG00000003369	calcium/calmodulin dependent protein kinase IG [Source:VGNC Symbol;Acc:VGNC:70521]	0.965186292	0.013936527	0.035975403
ENSMMUG00000016925	laminin subunit beta 3 [Source:VGNC Symbol;Acc:VGNC:74230]	-1.19333862	0.000644092	0.002434222
ENSMMUG00000045482	G0/G1 switch 2 [Source:NCBI gene;Acc:717581]	0.490232982	0.000155955	0.000678642
ENSMMUG00000016099	hedgehog acyltransferase [Source:NCBI gene;Acc:712333]	2.345126402	3.74E-08	3.19E-07
ENSMMUG00000058133		3.011079896	4.92E-07	3.52E-06
ENSMMUG00000017396	3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]	-1.82580545	9.16E-07	6.25E-06
ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	1.603303106	4.88E-20	1.71E-18
ENSMMUG00000026897	mml-mir-215 [Source:miRBase;Acc:MI0003025]	-1.98410926	0.000117224	0.000525049
ENSMMUG00000027053	mml-mir-194-1 [Source:miRBase;Acc:MI0003024]	2.020054001	0.002012009	0.006690156
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	1.487393241	2.41E-16	5.82E-15
ENSMMUG00000008638	CDC42 binding protein kinase alpha [Source:VGNC Symbol;Acc:VGNC:70799]	0.378343623	0.002185926	0.007175141
ENSMMUG00000031497		1.080874594	0.008585876	0.023737609
ENSMMUG00000008338	Wnt family member 9A [Source:VGNC Symbol;Acc:VGNC:78796]	0.698394211	0.000897513	0.003257742
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	1.094470778	3.01E-16	7.19E-15
ENSMMUG00000019513	U2AF homology motif kinase 1 [Source:VGNC Symbol;Acc:VGNC:79198]	2.241810666	0.004985142	0.014821502
ENSMMUG00000004049	activating transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:70171]	0.331411247	0.004966086	0.014773733
ENSMMUG00000004042	Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]	1.531802144	0.000492663	0.001919147
ENSMMUG00000003775	Fc fragment of IgG receptor IIb [Source:NCBI gene;Acc:720009]	0.934447971	0.007644878	0.021465446
ENSMMUG00000054686		2.023132292	4.14E-09	4.13E-08
ENSMMUG00000008251	cilia and flagella associated protein 126 [Source:VGNC Symbol;Acc:VGNC:71150]	2.103296453	0.000394474	0.001574709
ENSMMUG00000004516	apolipoprotein A2 [Source:NCBI gene;Acc:719946]	1.262627802	0.003278171	0.010269386
ENSMMUG00000004512	Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]	1.224380902	0.000112426	0.00050662
ENSMMUG00000004520	NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]	0.620933142	0.001251477	0.00440005
ENSMMUG00000050419	ADAM metalloproteinase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]	1.041775779	5.55E-06	3.27E-05
ENSMMUG00000060555		0.805278262	0.000793053	0.00292416
ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]	1.717586485	1.38E-08	1.27E-07
ENSMMUG00000022631	ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]	1.451003113	0.000141392	0.000621654
ENSMMUG00000022632	ubiquitin-fold modifier conjugating enzyme 1 [Source:VGNC Symbol;Acc:VGNC:79643]	1.406433487	9.98E-08	8.04E-07

ENSMMUG00000002010	death effector domain containing [Source:VGNC Symbol;Acc:VGNC:71768]	1.273060814	3.56E-09	3.58E-08
ENSMMUG00000002009	nitrilase 1 [Source:VGNC Symbol;Acc:VGNC:75351]	1.161029536	8.16E-07	5.63E-06
ENSMMUG00000060871	prefoldin subunit 2 [Source:NCBI gene;Acc:719886]	1.218733616	3.92E-05	0.000194052
ENSMMUG00000002007	kelch domain containing 9 [Source:NCBI gene;Acc:719863]	1.073108198	0.001602535	0.005459591
ENSMMUG00000064337	nectin cell adhesion molecule 4 [Source:NCBI gene;Acc:719843]	1.192916159	7.83E-08	6.41E-07
ENSMMUG00000002005	Rho GTPase activating protein 30 [Source:NCBI gene;Acc:718236]	0.881301835	0.00043396	0.001712514
ENSMMUG00000002003	upstream transcription factor 1 [Source:NCBI gene;Acc:719835]	0.806800233	0.00596383	0.017291026
ENSMMUG00000013391	intelectin 1 [Source:NCBI gene;Acc:719807]	-0.75980563	0.003057929	0.009649276
ENSMMUG00000017333	CD244 molecule [Source:VGNC Symbol;Acc:VGNC:70821]	0.780105279	0.001386076	0.004813935
ENSMMUG00000015812	CD48 molecule [Source:VGNC Symbol;Acc:VGNC:70769]	0.600322088	0.000263128	0.001091637
ENSMMUG00000011338	SLAM family member 8 [Source:VGNC Symbol;Acc:VGNC:77545]	1.085954493	7.60E-06	4.37E-05
ENSMMUG00000011335	Fc receptor like 6 [Source:VGNC Symbol;Acc:VGNC:72602]	1.037976515	5.89E-15	1.26E-13
ENSMMUG00000018444	dual specificity phosphatase 23 [Source:VGNC Symbol;Acc:VGNC:71880]	1.294877533	0.002336632	0.00761588
ENSMMUG00000060051	olfactory receptor 6N1-like [Source:NCBI gene;Acc:719970]	0.647582741	0.012804136	0.033465868
ENSMMUG00000010626	CD1c molecule [Source:VGNC Symbol;Acc:VGNC:70756]	2.950264395	5.84E-09	5.67E-08
ENSMMUG00000062253	CD1a molecule [Source:NCBI gene;Acc:698438]	2.184077276	3.74E-05	0.000186376
ENSMMUG00000020156	CD1d molecule [Source:VGNC Symbol;Acc:VGNC:70757]	3.016555191	4.29E-07	3.10E-06
ENSMMUG00000020155		3.173950334	0.004601116	0.013843488
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	1.679728282	1.56E-13	2.83E-12
ENSMMUG00000050541		1.197289054	0.005626408	0.01643483
ENSMMUG00000019835	CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]	1.117013182	8.37E-08	6.82E-07
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.53468351	1.13E-24	6.58E-23
ENSMMUG00000019830	Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]	1.748135489	8.61E-09	8.13E-08
ENSMMUG00000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	1.280796383	6.24E-11	8.11E-10
ENSMMUG00000008973	Fc receptor like 4 [Source:VGNC Symbol;Acc:VGNC:72527]	1.165309598	0.008295137	0.023067106
ENSMMUG00000008974	Fc receptor like 5 [Source:NCBI gene;Acc:718771]	1.374909874	2.05E-05	0.000108794
ENSMMUG00000065257		2.378811813	0.000380325	0.001523561
ENSMMUG00000042886	ETS variant transcription factor 3 [Source:NCBI gene;Acc:719741]	1.235717742	4.71E-06	2.82E-05
ENSMMUG00000012436	Rho guanine nucleotide exchange factor 11 [Source:VGNC Symbol;Acc:VGNC:69829]	0.33327486	5.10E-06	3.02E-05
ENSMMUG00000064007	leucine rich repeat containing 71 [Source:NCBI gene;Acc:718714]	0.282683499	0.013681657	0.035427442
ENSMMUG00000040660	heparin binding growth factor [Source:NCBI gene;Acc:716742]	0.927848569	0.002925381	0.009297772
ENSMMUG00000000039	mitochondrial ribosomal protein L24 [Source:VGNC Symbol;Acc:VGNC:74739]	1.459317448	0.000468144	0.001832936
ENSMMUG00000017093	brevican [Source:VGNC Symbol;Acc:VGNC:70112]	1.843922317	0.018328041	0.04536886
ENSMMUG00000060011	hyaluronan and proteoglycan link protein 2 [Source:NCBI gene;Acc:718500]	1.670478248	0.016491575	0.04147364
ENSMMUG00000017966	chromosome 1 C1orf61 homolog [Source:NCBI gene;Acc:106992893]	0.666771582	0.001076281	0.003846085

ENSMMUG00000019034	chaperonin containing TCP1 subunit 3 [Source:VGNC Symbol;Acc:VGNC:70746]	1.592727357	0.000675763	0.002537748
ENSMMUG00000016096	lamin A/C [Source:VGNC Symbol;Acc:VGNC:74427]	1.811408374	1.77E-05	9.56E-05
ENSMMUG00000004648	KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]	1.166897404	5.95E-14	1.14E-12
ENSMMUG000000045167		1.531029745	0.020508925	0.049876577
ENSMMUG00000053454	Ras like without CAAX 1 [Source:NCBI gene;Acc:717985]	1.059572746	4.77E-05	0.000232906
ENSMMUG00000062397		1.39176744	5.77E-12	8.56E-11
ENSMMUG00000023145	RUN and SH3 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77036]	1.349809266	0.0002415	0.001011424
ENSMMUG00000061381	hyperpolarization activated cyclic nucleotide gated potassium channel 3 [Source:NCBI gene;Acc:717719]	1.573114469	0.00538604	0.015826227
ENSMMUG00000023141	CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]	1.005230355	0.000381172	0.001525306
ENSMMUG00000053423		1.600553183	0.003344128	0.010445117
ENSMMUG00000003902	thrombospondin 3 [Source:VGNC Symbol;Acc:VGNC:78345]	1.858553022	7.38E-08	6.06E-07
ENSMMUG00000010978	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]	1.089221668	1.34E-07	1.06E-06
ENSMMUG00000010979	S100 calcium binding protein A4 [Source:VGNC Symbol;Acc:VGNC:76958]	0.745926086	1.98E-05	0.000105216
ENSMMUG00000010980	S100 calcium binding protein A5 [Source:VGNC Symbol;Acc:VGNC:76959]	0.940694459	0.005132667	0.015171907
ENSMMUG00000008917	S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]	1.105733419	9.88E-07	6.70E-06
ENSMMUG00000040678	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.910720746	0.003150966	0.009919089
ENSMMUG00000051645		2.814602746	4.79E-06	2.86E-05
ENSMMUG00000061474		1.729539874	9.01E-05	0.000415128
ENSMMUG00000042618	involucrin [Source:NCBI gene;Acc:713728]	1.359988317	0.000557771	0.002141276
ENSMMUG00000017740	sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]	2.049444447	0.000471207	0.001843312
ENSMMUG00000055038		2.026257952	2.82E-05	0.00014497
ENSMMUG00000054634	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]	2.365730087	0.002760672	0.008827245
ENSMMUG00000051719	late cornified envelope 1C [Source:HGNC Symbol;Acc:HGNC:29464]	1.747178452	0.004083095	0.012456758
ENSMMUG00000058472	late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]	1.421321398	0.00028646	0.00117451
ENSMMUG00000056940	late cornified envelope protein 1C [Source:NCBI gene;Acc:713408]	2.161109716	0.000849167	0.003105586
ENSMMUG00000055266	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]	2.199659511	2.69E-05	0.000138868
ENSMMUG00000051816	keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]	1.963774445	3.20E-08	2.77E-07
ENSMMUG00000001966	chromosome 1 C1orf68 homolog [Source:VGNC Symbol;Acc:VGNC:70436]	1.737566908	0.014206535	0.036507176
ENSMMUG00000049843	late cornified envelope protein 2D [Source:NCBI gene;Acc:100424118]	2.702212282	0.005580171	0.016319056
ENSMMUG00000062996		2.127465209	1.59E-06	1.04E-05
ENSMMUG00000009040	cornulin [Source:VGNC Symbol;Acc:VGNC:71397]	2.376485894	1.93E-06	1.24E-05
ENSMMUG00000056511		1.843004079	1.48E-06	9.74E-06
ENSMMUG00000059472	filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]	1.819580901	4.11E-11	5.48E-10
ENSMMUG00000010067	MINDY lysine 48 deubiquitinase 1 [Source:VGNC Symbol;Acc:VGNC:74828]	4.667042887	9.17E-06	5.19E-05
ENSMMUG00000023234	ceramide synthase 2 [Source:VGNC Symbol;Acc:VGNC:70946]	2.934569883	0.000914239	0.003313334
ENSMMUG00000023235	SET domain bifurcated histone lysine methyltransferase 1 [Source:NCBI gene;Acc:716141]	2.220693922	0.002093544	0.006922466
ENSMMUG00000012814	endosulfine alpha [Source:NCBI gene;Acc:715857]	2.788247218	0.005935426	0.017222141
ENSMMUG00000008218	ADAMTS like 4 [Source:VGNC Symbol;Acc:VGNC:69480]	0.882060608	0.001885817	0.00632587

ENSMMUG00000021388	circadian associated repressor of transcription [Source:VGNC Symbol;Acc:VGNC:71345]	-1.65135635	2.53E-10	3.04E-09
ENSMMUG00000021386	aph-1 homolog A, gamma-secretase subunit [Source:VGNC Symbol;Acc:VGNC:69924]	-0.74182794	0.001197999	0.004231863
ENSMMUG00000021385	carbonic anhydrase 14 [Source:VGNC Symbol;Acc:VGNC:70489]	-	-	-
ENSMMUG00000007244	OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]	1.015101631	1.01E-08	9.42E-08
ENSMMUG000000052282		-	-	-
ENSMMUG00000007246	myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]	1.271928246	1.08E-11	1.54E-10
ENSMMUG00000007256	splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]	-	-	-
ENSMMUG00000007257	synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]	1.305891958	1.90E-09	2.00E-08
ENSMMUG00000007258	boIA family member 1 [Source:VGNC Symbol;Acc:VGNC:70373]	-	-	-
ENSMMUG00000061036	histone cluster 2, H2ab [Source:NCBI gene;Acc:705170]	1.143548146	2.34E-06	1.48E-05
ENSMMUG00000037540	histone cluster 2, H2ac [Source:NCBI gene;Acc:705054]	1.442458768	2.16E-11	2.96E-10
ENSMMUG00000063990	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-	-
ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]	1.285294192	1.65E-14	3.36E-13
ENSMMUG00000054615		-	-	-
ENSMMUG00000051523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.595019077	0.000519022	0.002009161
ENSMMUG00000054078	histone H3 [Source:NCBI gene;Acc:114669830]	-	-	-
ENSMMUG00000040506	H2B clustered histone 18 [Source:HGNC Symbol;Acc:HGNC:24700]	2.010238252	8.87E-05	0.00040974
ENSMMUG00000004362	Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]	-	-	-
ENSMMUG00000062140		1.571788646	0.000696493	0.002605041
ENSMMUG00000024186	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	-	-
ENSMMUG00000036857	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.349772547	0.019758956	0.048344629
ENSMMUG00000061239		-	-	-
ENSMMUG00000054590		1.470136169	1.67E-10	2.05E-09
ENSMMUG00000056076	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	-	-
ENSMMUG00000055754	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.256116461	2.77E-05	0.000142693
ENSMMUG00000056325	NBPF member 20 [Source:NCBI gene;Acc:708768]	-	-	-
ENSMMUG00000018375	notch receptor 2 [Source:NCBI gene;Acc:713798]	1.675729476	2.28E-06	1.45E-05
ENSMMUG00000017482	ADAM metalloproteinase domain 30 [Source:NCBI gene;Acc:713727]	-	-	-
ENSMMUG00000008970	calsequestrin 2 [Source:VGNC Symbol;Acc:VGNC:70549]	1.267140719	0.000117369	0.000525539
ENSMMUG00000008967	VANGL planar cell polarity protein 1 [Source:VGNC Symbol;Acc:VGNC:78976]	-	-	-
ENSMMUG00000001973	suppressor of IKBKE 1 [Source:VGNC Symbol;Acc:VGNC:77314]	0.809169873	0.019507809	0.047810413
		-	-	-
		1.220523119	3.11E-08	2.70E-07
		-	-	-
		1.422895558	3.47E-08	2.97E-07
		-	-	-
		-2.18575206	5.75E-07	4.07E-06
		-	-	-
		1.603282761	0.001682456	0.00570957
		-	-	-
		0.627967456	0.011132818	0.029683511
		-	-	-
		0.632387108	0.011363579	0.030233562
		-	-	-
		-0.93394788	0.015435355	0.039149361
		-	-	-
		1.522581034	0.005007279	0.014866455
		-	-	-
		1.181983416	0.009504037	0.025899462
		-	-	-
		0.441950056	0.000103035	0.000469579
		-	-	-
		-0.41946477	0.001438853	0.004972776
		-	-	-
		0.687212212	2.69E-06	1.68E-05
		-	-	-
		0.797100734	2.50E-09	2.57E-08
		-	-	-
		2.872408647	0.001795572	0.006056023

ENSMMUG00000049105	NRAS proto-oncogene, GTPase [Source:NCBI gene;Acc:709089]	1.521689058	0.000672378	0.002526314
ENSMMUG00000001978	adenosine monophosphate deaminase 1 [Source:VGNC Symbol;Acc:VGNC:69806]	0.899822659	3.24E-08	2.80E-07
ENSMMUG00000014620	tripartite motif containing 33 [Source:VGNC Symbol;Acc:VGNC:79028]	1.128093924	0.003696814	0.011390765
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	2.7396611	1.19E-48	8.43E-46
ENSMMUG00000019527	DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]	1.78614995	2.39E-07	1.80E-06
ENSMMUG00000006787	BCL2 like 15 [Source:VGNC Symbol;Acc:VGNC:70162]	2.540951282	0.001311107	0.004586865
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	1.565084738	1.44E-10	1.78E-09
ENSMMUG00000017823	round spermatid basic protein 1 [Source:VGNC Symbol;Acc:VGNC:77105]	0.906772462	0.004408637	0.013318412
ENSMMUG00000017819	putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]	1.074449104	7.09E-06	4.10E-05
ENSMMUG00000017817	membrane associated guanylate kinase, WW and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74400]	0.665879151	8.21E-07	5.66E-06
ENSMMUG00000059489	Mov10 RISC complex RNA helicase [Source:NCBI gene;Acc:705910]	-4.11929694	0.001834378	0.006172866
ENSMMUG00000007766	suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]	1.991537556	2.47E-18	7.34E-17
ENSMMUG00000007765	Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]	-1.85915237	4.19E-28	3.43E-26
ENSMMUG000000037458	endoplasmic reticulum resident protein 29 [Source:NCBI gene;Acc:720396]	2.555147235	3.70E-05	0.000184687
ENSMMUG00000050825	potassium voltage-gated channel subfamily D member 3 [Source:NCBI gene;Acc:641437]	0.485579731	0.000764338	0.002826717
ENSMMUG00000014489	DEAD-box helicase 20 [Source:NCBI gene;Acc:704731]	0.808108777	7.79E-10	8.70E-09
ENSMMUG00000052184	inka box actin regulator 2 [Source:NCBI gene;Acc:704844]	1.292385238	0.000687986	0.002579077
ENSMMUG00000003581	transmembrane and immunoglobulin domain containing 3 [Source:NCBI gene;Acc:104564310]	0.55737006	0.005669305	0.016534079
ENSMMUG00000065322	ATP synthase peripheral stalk-membrane subunit b [Source:NCBI gene;Acc:704072]	0.840415021	8.56E-07	5.88E-06
ENSMMUG00000054017	potassium voltage-gated channel subfamily A member 2 [Source:NCBI gene;Acc:702126]	0.881844941	8.84E-05	0.000408288
ENSMMUG00000016056	potassium voltage-gated channel subfamily A member 10 [Source:VGNC Symbol;Acc:VGNC:73963]	0.835893729	8.58E-06	4.88E-05
ENSMMUG00000062177		0.681237996	3.21E-08	2.78E-07
ENSMMUG00000004614	potassium voltage-gated channel subfamily C member 4 [Source:VGNC Symbol;Acc:VGNC:73974]	0.963139795	0.015960713	0.040323232
ENSMMUG00000022715	adenosylhomocysteinase like 1 [Source:VGNC Symbol;Acc:VGNC:81350]	0.954706779	2.86E-07	2.13E-06
ENSMMUG00000005820	adenosine monophosphate deaminase 2 [Source:VGNC Symbol;Acc:VGNC:69807]	0.935532198	0.010678489	0.028590359
ENSMMUG00000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	0.934577585	1.41E-12	2.28E-11
ENSMMUG00000008713	myosin binding protein H like [Source:NCBI gene;Acc:698183]	0.860702296	1.59E-08	1.44E-07
ENSMMUG00000021837	seryl-tRNA synthetase 1 [Source:NCBI gene;Acc:695046]	0.839014353	8.57E-08	6.96E-07
ENSMMUG00000017266	UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]	1.73470575	3.04E-08	2.65E-07
ENSMMUG00000009431	HEN methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73241]	2.288823673	0.00786733	0.022005377
ENSMMUG00000042232	NBPF member 6 [Source:NCBI gene;Acc:698524]	0.439706248	0.000270075	0.001116688
ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]	2.838584265	3.87E-23	1.94E-21
ENSMMUG00000019714	vav guanine nucleotide exchange factor 3 [Source:VGNC Symbol;Acc:VGNC:78759]	2.123553192	0.000123554	0.000551567
ENSMMUG00000008197	netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]	2.085414931	1.52E-05	8.27E-05
ENSMMUG00000060795		1.984797578	3.06E-12	4.75E-11
ENSMMUG00000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	2.392138129	1.87E-69	6.93E-66
ENSMMUG00000060790		3.724945356	0.000170165	0.000734443
ENSMMUG00000022906	vascular cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:78761]	-0.727025	2.49E-07	1.87E-06

ENSMMUG00000062643		-	2.139953798	0.002902809	0.00923791
ENSMMUG00000055443	G protein-coupled receptor 88 [Source:NCBI gene;Acc:716520]		0.398932625	0.007849951	0.021965051
ENSMMUG00000019106	cell division cycle 14A [Source:VGNC Symbol;Acc:VGNC:70791]		0.417369344	0.007900114	0.022080418
ENSMMUG00000019105	RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]		2.039187607	0.000111816	0.000504327
ENSMMUG00000007706	dihydrolipoamide branched chain transacylase E2 [Source:VGNC Symbol;Acc:VGNC:71744]		2.730176814	0.001215227	0.004289887
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]		1.804901273	2.77E-08	2.43E-07
ENSMMUG00000021441	amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase [Source:VGNC Symbol;Acc:VGNC:69744]		0.579032616	0.00011273	0.000507527
ENSMMUG00000016335	palmdelphin [Source:VGNC Symbol;Acc:VGNC:75613]		1.157214069	0.008374179	0.023256381
ENSMMUG00000038667			1.572782155	9.35E-05	0.000429589
ENSMMUG00000008518	phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]		1.634269329	5.58E-19	1.73E-17
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]		1.045910292	3.22E-12	4.98E-11
ENSMMUG00000049701			0.416016121	0.00487907	0.014558675
ENSMMUG00000049494			1.651632933	1.73E-06	1.12E-05
ENSMMUG00000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]		2.347221136	3.32E-30	3.31E-28
ENSMMUG00000049297			1.462069084	4.74E-18	1.37E-16
ENSMMUG00000050661			1.166321282	2.06E-10	2.50E-09
ENSMMUG00000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]		1.050381637	1.08E-09	1.18E-08
ENSMMUG00000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]		0.984555433	1.05E-12	1.72E-11
ENSMMUG00000014013	ATP binding cassette subfamily D member 3 [Source:VGNC Symbol;Acc:VGNC:69579]		0.580955529	3.17E-07	2.33E-06
ENSMMUG00000013858	ATP binding cassette subfamily A member 4 [Source:VGNC Symbol;Acc:VGNC:69563]		0.411330075	1.38E-07	1.09E-06
ENSMMUG00000032677	microRNA 760 [Source:HGNC Symbol;Acc:HGNC:33666]		0.693202351	0.001415739	0.004904324
ENSMMUG00000045959			1.349903741	2.94E-07	2.18E-06
ENSMMUG00000015924	BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]		1.328772261	8.31E-13	1.39E-11
ENSMMUG00000015922	formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]		1.431068905	1.76E-14	3.57E-13
ENSMMUG00000016812	coiled-coil domain containing 18 [Source:VGNC Symbol;Acc:VGNC:70913]		1.012861231	7.22E-05	0.000339174
ENSMMUG00000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]		2.304982691	2.66E-22	1.22E-20
ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]		1.693844558	2.56E-05	0.000132791
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]		2.590656924	2.22E-26	1.53E-24
ENSMMUG00000051155	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]		3.304647581	0.000191174	0.000818923
ENSMMUG00000006819	helicase for meiosis 1 [Source:NCBI gene;Acc:704516]		0.922257592	6.49E-05	0.000308074
ENSMMUG00000049678			2.489790285	1.04E-13	1.93E-12
ENSMMUG00000060600			1.691050167	1.83E-05	9.79E-05
ENSMMUG00000053737	BarH like homeobox 2 [Source:NCBI gene;Acc:696831]		0.561297015	0.011450229	0.030431344
ENSMMUG00000000663	guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]		1.711467329	2.95E-09	3.02E-08
ENSMMUG00000000662	guanylate-binding protein 1 [Source:NCBI gene;Acc:694538]		1.023073297	5.01E-09	4.92E-08
ENSMMUG00000050170			1.008290257	0.00955491	0.026004647
ENSMMUG00000018795	kynurenine aminotransferase 3 [Source:VGNC Symbol;Acc:VGNC:74177]		1.006415292	0.010389659	0.027953309
ENSMMUG00000037887	RBMX like 1 [Source:NCBI gene;Acc:100424767]		0.979945054	3.30E-09	3.35E-08

ENSMMUG0000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	2.775236215	9.00E-33	1.18E-30
ENSMMUG00000020588	protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]	0.980825952	1.52E-17	4.19E-16
ENSMMUG00000065295		2.791188488	1.94E-31	2.06E-29
ENSMMUG00000010306	calcium-activated chloride channel regulator 4 [Source:NCBI gene;Acc:712123]	1.234083756	0.000475332	0.001858471
ENSMMUG0000006836	chloride channel accessory 1 [Source:NCBI gene;Acc:574295]	2.080479344	3.89E-12	5.90E-11
ENSMMUG0000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]	1.723838961	0.000827983	0.003037099
ENSMMUG00000013203	zinc finger HIT-type containing 6 [Source:VGNC Symbol;Acc:VGNC:79576]	0.697208406	0.011693295	0.030982949
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	1.049928346	4.82E-16	1.13E-14
ENSMMUG00000005361	mucolipin 3 [Source:VGNC Symbol;Acc:VGNC:74505]	0.826756794	0.004388893	0.013266873
ENSMMUG00000015402	lysophosphatidic acid receptor 3 [Source:VGNC Symbol;Acc:VGNC:74287]	1.014685494	0.001228607	0.004328877
ENSMMUG00000010127	chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]	1.922607292	1.37E-08	1.26E-07
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	1.984742895	1.83E-23	9.66E-22
ENSMMUG00000059938		-2.18240135	4.33E-09	4.30E-08
ENSMMUG00000000404	uricase [Source:NCBI gene;Acc:714004]	1.251199423	0.005609656	0.016392354
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	1.453457072	1.74E-25	1.07E-23
ENSMMUG00000057763		1.661154682	1.06E-05	5.94E-05
ENSMMUG00000050832		3.523089113	2.74E-05	0.000141169
ENSMMUG00000023345	adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]	1.638661313	9.27E-07	6.32E-06
ENSMMUG00000049326	GIPC PDZ domain containing family member 2 [Source:NCBI gene;Acc:707432]	0.636836948	0.001057265	0.003782689
ENSMMUG00000050425	DnaJ heat shock protein family (Hsp40) member B4 [Source:NCBI gene;Acc:707206]	0.503647595	0.001254254	0.004406676
ENSMMUG00000013853	ankyrin repeat domain 13C [Source:VGNC Symbol;Acc:VGNC:69695]	0.326418824	0.001715572	0.005809988
ENSMMUG00000021917	leucine rich repeat containing 7 [Source:NCBI gene;Acc:702347]	2.317209291	0.000613551	0.002328887
ENSMMUG00000041837	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-2.31610749	7.37E-06	4.25E-05
ENSMMUG00000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	1.637137749	5.36E-18	1.54E-16
ENSMMUG00000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]	0.913731485	6.34E-12	9.33E-11
ENSMMUG00000053254	adenylate kinase 4 [Source:NCBI gene;Acc:698560]	1.291548867	1.86E-16	4.53E-15
ENSMMUG00000053072		1.192444373	6.40E-08	5.32E-07
ENSMMUG00000018566	Janus kinase 1 [Source:VGNC Symbol;Acc:VGNC:73810]	0.892831128	0.006522462	0.018680594
ENSMMUG00000018565	ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]	3.814580019	4.59E-09	4.53E-08
ENSMMUG00000065340		2.826496671	0.000653067	0.002463043
ENSMMUG00000012538	ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]	0.930953478	9.47E-06	5.34E-05
ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]	0.860683436	6.94E-08	5.72E-07
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	1.021656522	5.97E-09	5.80E-08
ENSMMUG00000010351	KN motif and ankyrin repeat domains 4 [Source:VGNC Symbol;Acc:VGNC:73916]	0.595600278	0.000506757	0.001969394
ENSMMUG00000049952		0.998010257	8.53E-13	1.42E-11
ENSMMUG00000055834		1.631741389	0.000305478	0.001246969
ENSMMUG00000022762	OMA1 zinc metalloproteinase [Source:VGNC Symbol;Acc:VGNC:75485]	1.189888471	9.20E-06	5.20E-05

ENSMMUG00000010406	protein kinase AMP-activated catalytic subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:76400]	4.179744406	3.89E-05	0.000192813
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]	2.034053739	1.84E-30	1.85E-28
ENSMMUG000000059612		0.485138913	0.000346974	0.001400551
ENSMMUG00000005740	ubiquitin specific peptidase 24 [Source:VGNC Symbol;Acc:VGNC:78743]	0.538476435	0.00335753	0.010480355
ENSMMUG00000006754	tetratricopeptide repeat domain 4 [Source:VGNC Symbol;Acc:VGNC:78668]	0.942952411	6.33E-07	4.46E-06
ENSMMUG00000019056	Fas associated factor 1 [Source:VGNC Symbol;Acc:VGNC:72474]	-0.52153773	0.004972035	0.014785499
ENSMMUG00000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	2.070788882	1.31E-13	2.40E-12
ENSMMUG00000015371	microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]	1.368453693	3.02E-07	2.23E-06
ENSMMUG00000028192	Y RNA [Source:RFAM;Acc:RF00019]	2.707435278	0.008134759	0.022672144
ENSMMUG00000005986	Kruppel like factor 17 [Source:NCBI gene;Acc:702810]	2.168141916	1.24E-07	9.86E-07
ENSMMUG00000015555	ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]	3.155057041	1.58E-21	6.74E-20
ENSMMUG000000053498		1.885331083	0.000437314	0.001724374
ENSMMUG00000012477	protein tyrosine phosphatase receptor type F [Source:VGNC Symbol;Acc:VGNC:76615]	0.339239592	0.006618238	0.018925659
ENSMMUG00000016111	chromosome 1 C1orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70432]	2.271218018	0.000411834	0.001636961
ENSMMUG00000022381	prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]	2.360609737	0.000861228	0.003143492
ENSMMUG000000057076	claudin 19 [Source:NCBI gene;Acc:697807]	4.163500932	0.000250088	0.001044145
ENSMMUG00000013129	peptidylprolyl isomerase H [Source:NCBI gene;Acc:697669]	1.533976089	0.001223857	0.00431419
ENSMMUG00000013128	coiled-coil domain containing 30 [Source:VGNC Symbol;Acc:VGNC:70866]	0.669083166	9.17E-05	0.00042199
ENSMMUG00000014138	forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]	2.418663843	5.68E-13	9.69E-12
ENSMMUG000000064973		0.685732342	3.28E-08	2.82E-07
ENSMMUG000000052046		1.022291041	1.96E-12	3.11E-11
ENSMMUG000000052537		1.955998287	0.000206661	0.000878918
ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]	1.608951118	1.00E-15	2.28E-14
ENSMMUG00000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	2.557371309	2.01E-34	3.20E-32
ENSMMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	1.303384184	1.88E-15	4.16E-14
ENSMMUG00000018664	collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]	2.56433402	2.96E-29	2.74E-27
ENSMMUG00000005992	zinc metalloproteinase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]	2.45624796	6.14E-17	1.57E-15
ENSMMUG000000052510	transmembrane and coiled-coil domains 2 [Source:NCBI gene;Acc:693977]	2.364205195	0.013565202	0.035163772
ENSMMUG000000032180	RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]	1.840811741	1.36E-12	2.20E-11
ENSMMUG00000009189	palmitoyl-protein thioesterase 1 [Source:VGNC Symbol;Acc:VGNC:76386]	0.379683424	0.001082146	0.003865179
ENSMMUG000000063318		1.388351021	0.007751608	0.021730877
ENSMMUG00000009562	microtubule actin crosslinking factor 1 [Source:NCBI gene;Acc:718651]	1.211614116	0.006496575	0.018617237
ENSMMUG00000044406	POU class 3 homeobox 1 [Source:NCBI gene;Acc:718015]	0.843772785	0.010470652	0.02814059
ENSMMUG000000061825	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.894177615	2.50E-06	1.57E-05
ENSMMUG00000023277	inositol polyphosphate-5-phosphatase B [Source:VGNC Symbol;Acc:VGNC:73750]	0.515451312	0.002116093	0.006984984
ENSMMUG00000022040	mannosidase endo-alpha like [Source:NCBI gene;Acc:716710]	0.418224129	0.006797033	0.019377162
ENSMMUG00000008419	G protein nucleolar 2 [Source:VGNC Symbol;Acc:VGNC:73037]	1.817756313	1.53E-05	8.35E-05
ENSMMUG00000008418	dynein axonemal light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71836]	1.555425279	0.010819462	0.028926019

ENSMMUG00000059855	Smad nuclear interacting protein 1 [Source:NCBI gene;Acc:713733]	-	1.906943063	1.03E-09	1.13E-08
ENSMMUG00000010328	MYST/Esa1 associated factor 6 [Source:VGNC Symbol;Acc:VGNC:74580]	-	1.654408045	3.53E-05	0.000177391
ENSMMUG00000010323	zinc finger CCCH-type containing 12A [Source:VGNC Symbol;Acc:VGNC:79595]	-	1.244828079	4.22E-05	0.000208046
ENSMMUG00000050060		-	0.496923945	0.000708612	0.002643704
ENSMMUG00000020432	organic solute carrier partner 1 [Source:VGNC Symbol;Acc:VGNC:75696]	-	0.896105372	0.003634737	0.011229823
ENSMMUG00000017338	LSM10, U7 small nuclear RNA associated [Source:VGNC Symbol;Acc:VGNC:74307]	-	0.994832896	0.006573181	0.018814953
ENSMMUG00000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	-	1.150708103	7.48E-10	8.38E-09
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	-	0.799030548	6.95E-05	0.000327474
ENSMMUG00000019815	transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]	-	2.070777563	3.29E-08	2.83E-07
ENSMMUG00000002741	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]	-	3.518296111	0.000399384	0.001590457
ENSMMUG00000003269	polyhomeotic homolog 2 [Source:VGNC Symbol;Acc:VGNC:75903]	-	2.684398922	0.000139128	0.000613596
ENSMMUG00000003268	alpha 1,3-galactosyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:69550]	-	1.149395183	0.012376028	0.032530396
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	-	1.213640693	3.31E-11	4.44E-10
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	-	1.030544731	2.99E-07	2.22E-06
ENSMMUG00000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	-	1.10064186	6.55E-15	1.39E-13
ENSMMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]	-	1.36659225	8.76E-14	1.64E-12
ENSMMUG00000044265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.02241794	2.51E-06	1.58E-05
ENSMMUG00000054846	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.435302253	2.47E-05	0.00012879
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]	-	3.528275103	9.45E-06	5.33E-05
ENSMMUG00000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	-	2.050877688	9.79E-20	3.32E-18
ENSMMUG00000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	-	1.776941213	4.20E-23	2.10E-21
ENSMMUG00000015650	transmembrane protein 39B [Source:VGNC Symbol;Acc:VGNC:79507]	-	0.447280141	0.016154149	0.040763319
ENSMMUG00000060894	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.116435621	3.22E-06	1.98E-05
ENSMMUG00000005466	SPOC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77997]	-	1.190941361	1.65E-08	1.50E-07
ENSMMUG00000023401	adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]	-	1.301127603	1.49E-11	2.08E-10
ENSMMUG00000023398	collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]	-	1.227220258	6.11E-13	1.04E-11
ENSMMUG00000023397	penta-EF-hand domain containing 1 [Source:NCBI gene;Acc:706038]	-	0.997577027	2.74E-09	2.80E-08
ENSMMUG00000023396	hypocretin receptor 1 [Source:VGNC Symbol;Acc:VGNC:73356]	-	0.986891092	9.55E-06	5.38E-05
ENSMMUG00000060319	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.111659647	4.75E-05	0.000232131
ENSMMUG00000013188	serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]	-	0.982194348	7.88E-10	8.79E-09
ENSMMUG00000049574	antizyme inhibitor 2-like [Source:NCBI gene;Acc:705256]	-	0.696604148	3.98E-07	2.89E-06
ENSMMUG00000057282	Y RNA [Source:RFAM;Acc:RF00019]	-	1.031458489	0.000431949	0.001707759
ENSMMUG00000064353	fatty acid binding protein 3 [Source:NCBI gene;Acc:717237]	-	0.511122912	0.000725466	0.00269708

ENSMMUG00000019406	small nuclear ribonucleoprotein U5 subunit 40 [Source:NCBI gene;Acc:705059]	0.527576278	0.009931236	0.026875954
ENSMMUG00000013520	pumilio RNA binding family member 1 [Source:VGNC Symbol;Acc:VGNC:76479]	0.862615918	1.45E-11	2.04E-10
ENSMMUG00000063979		0.621390733	3.11E-09	3.17E-08
ENSMMUG00000025533		2.389664405	0.0046481	0.013948063
ENSMMUG00000008744	lysosomal protein transmembrane 5 [Source:VGNC Symbol;Acc:VGNC:74162]	1.388153658	0.019075617	0.046882898
ENSMMUG00000057452		1.181284581	2.30E-07	1.74E-06
ENSMMUG00000059136		1.088831086	0.015334106	0.038959191
ENSMMUG00000051008		3.467745536	0.000196323	0.000838801
ENSMMUG00000057173		-3.48494634	7.16E-05	0.000336224
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	2.901119592	2.88E-11	3.89E-10
ENSMMUG00000015659	mitochondrial trans-2-enoyl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:74536]	3.690640726	0.000706136	0.00263579
ENSMMUG00000007110	serine and arginine rich splicing factor 4 [Source:NCBI gene;Acc:717401]	2.564158309	0.000135479	0.000599566
ENSMMUG00000016893	solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]	1.555150869	3.28E-08	2.83E-07
ENSMMUG00000064416	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.826573466	0.003862624	0.011852413
ENSMMUG00000015115	terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]	1.142206648	1.00E-11	1.43E-10
ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	0.945627822	6.39E-10	7.23E-09
ENSMMUG00000050286		0.65564302	0.001946926	0.006502908
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	2.323504982	9.12E-25	5.37E-23
ENSMMUG00000012697	AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]	1.727953008	8.28E-11	1.06E-09
ENSMMUG00000056266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.894546043	1.07E-07	8.63E-07
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	1.671399447	1.68E-06	1.10E-05
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	1.893202459	4.09E-09	4.08E-08
ENSMMUG00000011156	Rh blood group, CcEe antigens [Source:NCBI gene;Acc:613023]	0.595007728	0.010561835	0.028349686
ENSMMUG00000057953		1.293417012	0.000666528	0.00250624
ENSMMUG00000002420	RUNX family transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:76948]	1.022140148	0.004201256	0.012772576
ENSMMUG00000057675	non-compact myelin associated protein [Source:NCBI gene;Acc:712192]	1.199722934	0.000220068	0.000930068
ENSMMUG00000058954		2.660824884	0.002942376	0.009341776
ENSMMUG00000053036		1.433463015	3.74E-10	4.35E-09
ENSMMUG00000049609		1.557606179	0.000116189	0.000521198
ENSMMUG00000022927	RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]	2.021380054	1.04E-17	2.91E-16
ENSMMUG00000050770		-0.80160018	0.000356656	0.001436179
ENSMMUG00000059931		0.641085525	0.000245222	0.001025853
ENSMMUG00000004217	cannabinoid receptor 2 [Source:VGNC Symbol;Acc:VGNC:71281]	0.727514151	0.012669273	0.033165987
ENSMMUG00000004216	alpha-L-fucosidase 1 [Source:VGNC Symbol;Acc:VGNC:72826]	0.701254235	0.020322464	0.049528701
ENSMMUG00000019549	UDP-galactose-4-epimerase [Source:VGNC Symbol;Acc:VGNC:72868]	3.170061424	0.008959786	0.02462976
ENSMMUG00000010970	heterogeneous nuclear ribonucleoprotein R [Source:VGNC Symbol;Acc:VGNC:73499]	2.712965568	0.007629687	0.021429593
ENSMMUG00000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]	1.803997807	1.06E-14	2.20E-13

ENSMMUG0000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	-1.90892778	2.06E-09	2.16E-08
ENSMMUG00000058332	testis expressed 46 [Source:NCBI gene;Acc:709002]	2.143724394	7.56E-07	5.25E-06
ENSMMUG00000041482	lactamase beta like 1 [Source:NCBI gene;Acc:718590]	1.271376962	0.000280624	0.00115443
ENSMMUG00000023382	EPH receptor B2 [Source:NCBI gene;Acc:718570]	0.344882826	0.003451843	0.010727332
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	1.590023358	1.85E-25	1.14E-23
ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	1.690562764	5.95E-27	4.51E-25
ENSMMUG00000006891	aflatoxin B1 aldehyde reductase member 3 [Source:NCBI gene;Acc:715623]	-0.63504482	0.017553343	0.043713866
ENSMMUG00000064473	MRT4 homolog, ribosome maturation factor [Source:NCBI gene;Acc:702926]	0.928913184	0.000154762	0.000674616
ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]	1.447522691	2.13E-13	3.79E-12
ENSMMUG00000050018		0.552789078	0.020558154	0.049970012
ENSMMUG00000004754	intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]	1.174501338	2.10E-08	1.88E-07
ENSMMUG00000023517	immunoglobulin superfamily member 21 [Source:VGNC Symbol;Acc:VGNC:73668]	0.614473114	0.010916463	0.029164321
ENSMMUG00000032238	peptidyl arginine deiminase 4 [Source:NCBI gene;Acc:700806]	1.248827639	0.006398438	0.018385747
ENSMMUG00000051619	peptidyl arginine deiminase 3 [Source:NCBI gene;Acc:700560]	0.950212051	2.10E-11	2.89E-10
ENSMMUG00000050983	peptidyl arginine deiminase 1 [Source:NCBI gene;Acc:700444]	0.666754648	1.21E-05	6.71E-05
ENSMMUG00000001616	peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]	1.15845387	2.85E-05	0.000146299
ENSMMUG00000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	1.326639823	7.37E-10	8.28E-09
ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	1.376682322	1.95E-15	4.31E-14
ENSMMUG00000018235	chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]	0.925517	0.000795389	0.002931318
ENSMMUG00000001910	heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]	1.347166613	8.64E-05	0.000399943
ENSMMUG00000001911	steroid receptor associated and regulated protein [Source:VGNC Symbol;Acc:VGNC:78008]	0.701561161	0.001237622	0.004356241
ENSMMUG00000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.253222586	7.82E-09	7.45E-08
ENSMMUG00000002802	agmatinase [Source:NCBI gene;Acc:713190]	1.568184554	8.93E-05	0.000412081
ENSMMUG00000032244	DnaJ heat shock protein family (Hsp40) member C16 [Source:NCBI gene;Acc:700894]	1.850350992	1.86E-05	9.96E-05
ENSMMUG00000018163	caspase 9 [Source:NCBI gene;Acc:694544]	4.580020937	1.65E-06	1.08E-05
ENSMMUG000000031821	chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]	2.347803025	3.83E-05	0.000190243
ENSMMUG00000053550		-4.6462774	2.16E-07	1.64E-06
ENSMMUG00000060541		3.621349909	1.92E-06	1.23E-05
ENSMMUG00000058742		3.178570834	0.019996718	0.048846513
ENSMMUG00000050246	EF-hand domain family member D2 [Source:NCBI gene;Acc:694155]	2.192523883	0.000412178	0.001637559
ENSMMUG00000053235		2.706440324	1.95E-06	1.26E-05
ENSMMUG00000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]	2.382379897	4.16E-08	3.52E-07
ENSMMUG00000055233	PRAME family member 17-like [Source:NCBI gene;Acc:100427847]	1.094568471	3.74E-08	3.19E-07
ENSMMUG00000054309	PRAME family member 5 [Source:NCBI gene;Acc:722781]	1.439944784	0.000738429	0.002739782
ENSMMUG00000011137	arylacetamide deacetylase like 4 [Source:VGNC Symbol;Acc:VGNC:81338]	1.625195709	0.000144026	0.000632297
ENSMMUG00000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	1.370332283	1.58E-35	2.76E-33
ENSMMUG00000037284	small nucleolar RNA, H/ACA box 59A [Source:HGNC Symbol;Acc:HGNC:32653]	1.602013104	0.001004372	0.003615253

ENSMMUG00000064242		1.324200824	1.30E-10	1.62E-09
ENSMMUG00000063313	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	0.803889031	0.008842142	0.024354766
ENSMMUG00000021447	TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]	5.053901054	5.72E-07	4.05E-06
ENSMMUG00000023449	mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]	2.066286006	1.58E-09	1.69E-08
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	1.812108121	1.11E-31	1.21E-29
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	1.222650456	1.56E-19	5.10E-18
ENSMMUG00000062316	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.322937466	9.64E-14	1.80E-12
ENSMMUG00000037413	U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]	0.831833973	5.88E-06	3.45E-05
ENSMMUG00000051669		0.792578154	1.58E-07	1.24E-06
ENSMMUG00000023668	F-box protein 6 [Source:VGNC Symbol;Acc:VGNC:72490]	-2.12426171	0.015410235	0.039099023
		-		
ENSMMUG00000002261	F-box protein 2 [Source:VGNC Symbol;Acc:VGNC:72486]	1.909238565	0.004971387	0.014785499
		-		
ENSMMUG00000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	1.280404001	2.58E-22	1.19E-20
		-		
ENSMMUG00000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	1.554197902	3.42E-22	1.55E-20
		-		
ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	1.920685541	5.18E-19	1.61E-17
		-		
ENSMMUG00000053062	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.542885633	0.007328901	0.020655189
		-		
ENSMMUG00000006187	angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]	1.781938175	7.89E-11	1.01E-09
ENSMMUG00000058771	PHD finger protein 13 [Source:NCBI gene;Acc:704846]	-1.49383345	8.02E-05	0.000373115
		-		
ENSMMUG00000032281	zinc finger and BTB domain containing 48 [Source:VGNC Symbol;Acc:VGNC:79959]	1.181629677	6.33E-07	4.46E-06
		-		
ENSMMUG00000023676	espin [Source:NCBI gene;Acc:722532]	1.258004306	2.54E-10	3.04E-09
ENSMMUG00000055126		1.605392864	2.22E-06	1.41E-05
		-		
ENSMMUG00000054719		2.086591197	1.63E-16	4.01E-15
ENSMMUG00000032284	leucine rich repeat containing 47 [Source:VGNC Symbol;Acc:VGNC:74388]	2.838042888	0.009523796	0.025943771
		-		
ENSMMUG00000003786	WD repeat containing, antisense to TP73 [Source:VGNC Symbol;Acc:VGNC:78791]	1.070920269	0.000554301	0.002131263
		-		
ENSMMUG00000009358	multiple epidermal growth factor-like domains protein 6 [Source:NCBI gene;Acc:697150]	0.658596902	0.01900811	0.046755726
		-		
ENSMMUG00000050239		1.169792963	0.000241395	0.00101127
		-		
ENSMMUG00000010280	SKI proto-oncogene [Source:VGNC Symbol;Acc:VGNC:77374]	3.306496888	0.000769611	0.002844799
		-		
ENSMMUG00000018911	protein kinase C zeta [Source:VGNC Symbol;Acc:VGNC:82212]	2.466233322	1.10E-05	6.16E-05
		-		
ENSMMUG00000019086	gamma-aminobutyric acid type A receptor delta subunit [Source:VGNC Symbol;Acc:VGNC:72854]	1.842654006	9.39E-05	0.000431169
		-		
ENSMMUG00000014075	cilia and flagella associated protein 74 [Source:NCBI gene;Acc:709689]	1.723230499	0.000108831	0.000492364
		-		
ENSMMUG00000001896	G protein subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73095]	1.389507827	0.003962743	0.012132014
ENSMMUG00000010879	NAD kinase [Source:VGNC Symbol;Acc:VGNC:75047]	-1.55731768	1.61E-05	8.74E-05
		-		
ENSMMUG00000005578	solute carrier family 35 member E2 [Source:VGNC Symbol;Acc:VGNC:77590]	1.290189585	6.40E-06	3.73E-05
		-		
ENSMMUG00000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]	1.680255406	6.87E-07	4.80E-06
		-		
ENSMMUG00000012961	mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]	1.304735795	5.35E-10	6.12E-09

ENSMMUG00000048805		-	1.596652519	4.65E-11	6.14E-10
ENSMMUG00000040063	fibronectin type III domain containing 10 [Source:NCBI gene;Acc:106996973]	-	1.389296607	0.000884616	0.00321462
ENSMMUG00000060167		-	1.847766957	1.37E-10	1.69E-09
ENSMMUG00000001551	SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]	-	1.758737891	2.99E-14	5.85E-13
ENSMMUG000000051354		-	-1.27269903	0.009533092	0.025954792
ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]	-	1.503782036	7.08E-26	4.54E-24
ENSMMUG000000058426		-	1.232705388	0.007648241	0.021465446
ENSMMUG000000064596	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674454]	-	-1.41204744	1.84E-05	9.87E-05
ENSMMUG000000050086		-	1.394325004	0.010324072	0.027822277
ENSMMUG00000006904	cyclin L2 [Source:NCBI gene;Acc:114669744]	-	1.306027051	0.000277758	0.001144843
ENSMMUG000000059208	aurora kinase A interacting protein 1 [Source:NCBI gene;Acc:706329]	-	1.877759651	3.30E-07	2.42E-06
ENSMMUG000000007109	dishevelled segment polarity protein 1 [Source:NCBI gene;Acc:705864]	-	1.078875462	0.002129788	0.007020396
ENSMMUG000000013862	ArfGAP with coiled-coil, ankyrin repeat and PH domains 3 [Source:VGNC Symbol;Acc:VGNC:69434]	-	0.645936184	0.008170544	0.022737692
ENSMMUG000000032292	sodium channel epithelial 1 delta subunit [Source:VGNC Symbol;Acc:VGNC:76993]	-	1.381704777	0.000455958	0.001789796
ENSMMUG000000010030	ubiquitin conjugating enzyme E2 J2 [Source:VGNC Symbol;Acc:VGNC:79189]	-	0.547655182	0.013472304	0.034959626
ENSMMUG000000019518	stromal cell derived factor 4 [Source:VGNC Symbol;Acc:VGNC:77092]	-	-0.60636051	0.015448672	0.039176437
ENSMMUG000000056613		-	0.664264278	2.37E-05	0.000123678
ENSMMUG000000018699	chromosome 1 C1orf159 homolog [Source:VGNC Symbol;Acc:VGNC:70393]	-	-0.75365268	0.000691302	0.002588891
ENSMMUG000000065097		-	1.743309821	0.00028636	0.001174424
ENSMMUG000000005947	sterile alpha motif domain containing 11 [Source:NCBI gene;Acc:100430343]	-	0.753120958	0.010015934	0.027083968
ENSMMUG000000022562	interleukin 1 receptor accessory protein [Source:VGNC Symbol;Acc:VGNC:73718]	-	2.156841659	0.000284018	0.001166434
ENSMMUG000000006596	CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]	-	2.305186304	5.45E-13	9.32E-12
ENSMMUG000000012675	CKLF like MARVEL transmembrane domain containing 8 [Source:VGNC Symbol;Acc:VGNC:71219]	-	3.583076121	0.003783018	0.011625371
ENSMMUG000000049551		-	1.416097279	7.67E-06	4.40E-05
ENSMMUG000000031449	zinc finger CW-type and PWWP domain containing 2 [Source:NCBI gene;Acc:702617]	-	1.421923932	0.005946569	0.017244352
ENSMMUG000000055585		-	2.510754179	2.73E-10	3.25E-09
ENSMMUG000000000056	5-azacytidine induced 2 [Source:VGNC Symbol;Acc:VGNC:70115]	-	1.380472397	0.000170134	0.000734443
ENSMMUG000000051896		-	2.393340253	0.011060423	0.029495788
ENSMMUG000000060958	leucine rich repeat containing 3B [Source:NCBI gene;Acc:701323]	-	2.138348998	0.001032366	0.003703431
ENSMMUG000000051809		-	2.431730159	0.005198978	0.015334298
ENSMMUG000000051975		-	1.828272386	1.00E-08	9.40E-08
ENSMMUG000000005370	potassium voltage-gated channel subfamily H member 8 [Source:VGNC Symbol;Acc:VGNC:73855]	-	3.032644109	0.014563109	0.037320011

ENSMMUG00000054204		-	0.694618894	2.50E-05	0.000129981
ENSMMUG00000019009	SATB homeobox 1 [Source:VGNC Symbol;Acc:VGNC:84086]	-	0.522999674	0.006110876	0.017672445
ENSMMUG00000020377	collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]	-	1.463236853	4.30E-11	5.71E-10
ENSMMUG00000050595		-	2.275274292	0.005127288	0.015161189
ENSMMUG00000020294	phosphoinositide-3-kinase regulatory subunit 4 [Source:VGNC Symbol;Acc:VGNC:84060]	-	0.948196138	0.000479548	0.001873471
ENSMMUG00000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	-	3.089074801	2.03E-16	4.95E-15
ENSMMUG00000001154	U8 snoRNA-decapping enzyme-like [Source:NCBI gene;Acc:717946]	-	0.839884028	3.41E-06	2.08E-05
ENSMMUG00000024125	small nucleolar RNA, H/ACA box 58 [Source:HGNC Symbol;Acc:HGNC:32652]	-	2.508120456	0.01862023	0.04593878
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	-	-1.2226976	1.36E-07	1.08E-06
ENSMMUG00000056585		-	-1.24100831	0.005714064	0.016658064
ENSMMUG00000016004	acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]	-	1.992500262	6.29E-07	4.43E-06
ENSMMUG00000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	-	2.339085043	2.21E-21	9.16E-20
ENSMMUG00000019854	transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]	-	2.529969109	4.92E-15	1.06E-13
ENSMMUG00000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	-	-2.02906079	2.54E-12	3.98E-11
ENSMMUG00000057769		-	2.356172897	0.00054319	0.002094516
ENSMMUG00000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]	-	2.347746267	1.19E-11	1.69E-10
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	-	2.138019565	8.00E-32	9.05E-30
ENSMMUG00000053660	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.689626167	1.73E-06	1.13E-05
ENSMMUG00000035834	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.963319408	0.007232975	0.020423653
ENSMMUG00000008916	transferrin [Source:VGNC Symbol;Acc:VGNC:82716]	-	1.989687017	6.89E-23	3.37E-21
ENSMMUG00000008918	SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]	-	1.395392871	7.35E-09	7.05E-08
ENSMMUG00000008919	RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]	-	-1.43324236	9.79E-08	7.90E-07
ENSMMUG00000012605	solute carrier organic anion transporter family member 2A1 [Source:VGNC Symbol;Acc:VGNC:77600]	-	0.594776216	8.04E-06	4.60E-05
ENSMMUG00000055637		-	1.688378886	0.006919697	0.019685231
ENSMMUG00000003263	stromal antigen 1 [Source:VGNC Symbol;Acc:VGNC:77901]	-	0.718601684	1.72E-06	1.12E-05
ENSMMUG00000041198	muscle RAS oncogene homolog [Source:NCBI gene;Acc:716352]	-	0.928991752	0.000589467	0.002247248
ENSMMUG00000007757	extended synaptotagmin 3 [Source:VGNC Symbol;Acc:VGNC:84182]	-	0.514005456	0.013038016	0.033963424
ENSMMUG00000007760	centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]	-	1.134666912	9.66E-15	2.02E-13
ENSMMUG00000053063	forkhead box L2 [Source:NCBI gene;Acc:717906]	-	0.81626955	7.53E-07	5.23E-06
ENSMMUG00000003051	COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]	-	1.043089725	2.02E-10	2.45E-09
ENSMMUG00000003169	calsyntenin 2 [Source:VGNC Symbol;Acc:VGNC:71197]	-	3.000661202	0.001385274	0.004813404
ENSMMUG00000062527		-	-1.13009361	3.17E-07	2.33E-06
ENSMMUG00000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-	1.377390948	5.93E-08	4.94E-07

ENSMMUG00000053344	splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]	1.942420142	3.65E-05	0.000182693
ENSMMUG00000057297		-1.30208872	0.000876335	0.003189401
ENSMMUG00000056024		1.323358111	4.64E-17	1.21E-15
ENSMMUG00000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	1.231707622	1.89E-10	2.30E-09
ENSMMUG00000052474		1.172464789	8.42E-07	5.79E-06
ENSMMUG00000050932		0.782727346	0.001719998	0.005822333
ENSMMUG00000060612	ATPase Na+/K+ transporting subunit beta 3 [Source:NCBI gene;Acc:716682]	0.801463665	0.01170127	0.030998542
ENSMMUG00000053154	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.037993987	0.008164172	0.022724226
ENSMMUG00000011134	transcription factor Dp-2 [Source:VGNC Symbol;Acc:VGNC:78324]	0.717510937	7.66E-07	5.30E-06
ENSMMUG00000012151	glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]	-2.43455373	1.44E-07	1.14E-06
ENSMMUG00000055990	plastin 1 [Source:NCBI gene;Acc:714391]	0.866622276	0.009672735	0.026286724
ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	3.326357513	2.86E-12	4.46E-11
ENSMMUG00000009694	solute carrier family 9 member A9 [Source:VGNC Symbol;Acc:VGNC:77747]	2.849184163	2.43E-05	0.000126887
ENSMMUG00000062595		0.847967213	0.000364995	0.001466904
ENSMMUG00000021755	phospholipid scramblase 2 [Source:NCBI gene;Acc:713298]	-1.42430213	0.019721306	0.048277808
ENSMMUG00000049859		1.803244317	8.64E-12	1.25E-10
ENSMMUG00000062175	carboxypeptidase B1 [Source:NCBI gene;Acc:712639]	1.090131992	2.84E-08	2.49E-07
ENSMMUG00000005519	carboxypeptidase A3 [Source:VGNC Symbol;Acc:VGNC:71456]	0.825196928	2.05E-05	0.000108813
ENSMMUG00000059895		0.882996638	0.000200263	0.000854157
ENSMMUG00000005521	glycogenin 1 [Source:VGNC Symbol;Acc:VGNC:73332]	0.920151755	2.30E-08	2.05E-07
ENSMMUG00000005526	helicase like transcription factor [Source:VGNC Symbol;Acc:VGNC:73383]	0.601453366	0.001409219	0.00488516
ENSMMUG00000005529	ceruloplasmin [Source:VGNC Symbol;Acc:VGNC:71454]	0.468126275	0.00013945	0.000614576
ENSMMUG00000059534		0.698084369	0.002234306	0.007310329
ENSMMUG00000047621	transmembrane 4 L six family member 18 [Source:VGNC Symbol;Acc:VGNC:82713]	0.883287145	7.78E-14	1.47E-12
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]	2.357629398	5.11E-36	9.46E-34
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.741393946	1.52E-14	3.11E-13
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]	1.827112769	1.19E-13	2.20E-12
ENSMMUG00000059788		0.710445704	4.41E-05	0.000216386
ENSMMUG00000048232	MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]	1.317379048	3.61E-11	4.83E-10
ENSMMUG00000017239	mediator complex subunit 12L [Source:VGNC Symbol;Acc:VGNC:74515]	0.458074333	0.000622995	0.00236292
ENSMMUG00000038998	purinergic receptor P2Y13 [Source:VGNC Symbol;Acc:VGNC:83950]	1.368476618	9.21E-08	7.46E-07
ENSMMUG00000001105	purinergic receptor P2Y12 [Source:VGNC Symbol;Acc:VGNC:75642]	1.116999409	1.57E-08	1.42E-07
ENSMMUG00000057554	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.676557526	9.17E-05	0.00042199
ENSMMUG00000057501		1.976017447	4.65E-09	4.58E-08
ENSMMUG00000031537		1.835466061	0.013954965	0.036010462
ENSMMUG00000053217		3.992811803	0.000532017	0.002054638
ENSMMUG00000001664	arylacetamide deacetylase [Source:VGNC Symbol;Acc:VGNC:81172]	1.801862343	0.004260611	0.012934465
ENSMMUG00000061194		1.594721387	9.10E-08	7.37E-07
ENSMMUG00000061684		1.620490856	2.10E-06	1.34E-05
ENSMMUG00000053540		1.675603032	0.002744899	0.008784389
ENSMMUG00000031540	purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]	4.933464966	2.25E-06	1.43E-05
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]	1.266382597	2.75E-24	1.55E-22
ENSMMUG00000051847		1.520621073	0.000331635	0.001344859
ENSMMUG00000056924	G protein-coupled receptor 149 [Source:NCBI gene;Acc:106997054]	1.206997304	0.000179862	0.000774266
ENSMMUG00000060572		0.988694295	3.96E-05	0.000195792

ENSMMUG00000023081	schwannomin interacting protein 1 [Source:NCBI gene;Acc:703321]	-0.55933379	0.010729828	0.028722627
ENSMMUG00000056116		-		
ENSMMUG00000009564	NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]	1.503948708	5.62E-09	5.48E-08
ENSMMUG00000063228		-		
ENSMMUG00000042979		1.724349333	0.000489788	0.001909452
ENSMMUG00000054039		-		
ENSMMUG00000055530	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.436392698	1.24E-05	6.84E-05
ENSMMUG0000001302	sucrase-isomaltase [Source:VGNC Symbol;Acc:VGNC:77213]	-		
ENSMMUG00000003742	butyrylcholinesterase [Source:VGNC Symbol;Acc:VGNC:70238]	2.771588456	0.000975266	0.003521103
ENSMMUG00000023045	zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]	-		
ENSMMUG00000005939	serpin family I member 1 [Source:VGNC Symbol;Acc:VGNC:77366]	2.685555379	0.009766294	0.026511832
ENSMMUG00000051641		-		
ENSMMUG00000063303	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.524107049	0.001794412	0.006053488
ENSMMUG00000021875	myoneurin [Source:VGNC Symbol;Acc:VGNC:74958]	0.760010666	1.53E-08	1.39E-07
ENSMMUG00000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]	0.564430787	0.000413539	0.001641977
ENSMMUG00000022880	eukaryotic translation initiation factor 5A2 [Source:VGNC Symbol;Acc:VGNC:72198]	1.922479003	4.67E-06	2.80E-05
ENSMMUG00000040869	spermatogenesis associated 16 [Source:VGNC Symbol;Acc:VGNC:84073]	1.456727027	2.15E-05	0.000113174
ENSMMUG00000023078	zinc finger protein 639 [Source:VGNC Symbol;Acc:VGNC:82561]	-		
ENSMMUG00000003594	ubiquitin specific peptidase 13 [Source:VGNC Symbol;Acc:VGNC:78735]	1.915485098	7.59E-12	1.10E-10
ENSMMUG00000064088	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	-		
ENSMMUG00000003595	peroxisomal biogenesis factor 5 like [Source:VGNC Symbol;Acc:VGNC:75889]	3.347293918	0.004032165	0.012321657
ENSMMUG00000055097		-		
ENSMMUG00000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]	2.716529507	0.016430665	0.041348508
ENSMMUG00000013661	presenilin associated rhomboid like [Source:NCBI gene;Acc:704652]	-		
ENSMMUG00000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]	1.253644007	1.21E-06	8.06E-06
ENSMMUG00000006553	dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]	-		
ENSMMUG00000000800	proteasome 26S subunit, non-ATPase 2 [Source:VGNC Symbol;Acc:VGNC:84144]	1.400908762	2.62E-08	2.31E-07
ENSMMUG00000007503	family with sequence similarity 131 member A [Source:VGNC Symbol;Acc:VGNC:72385]	0.633866106	0.006200762	0.017897489
ENSMMUG00000007524	RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]	0.781463286	2.26E-06	1.44E-05
ENSMMUG00000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	-		
ENSMMUG00000060581		0.814849459	2.55E-08	2.25E-07
ENSMMUG00000002953	MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]	-		
ENSMMUG00000023814	mitogen-activated protein kinase kinase kinase 13 [Source:VGNC Symbol;Acc:VGNC:74494]	0.723883856	0.000331823	0.001345252
		-		
		2.490107182	0.000729155	0.002709242
		-		
		1.436514523	1.41E-05	7.75E-05
		2.141317238	2.11E-49	1.74E-46
		-		
		1.998867039	0.000408367	0.00162405
		-		
		1.394594378	6.52E-13	1.11E-11
		-		
		1.680145871	1.69E-09	1.79E-08
		-		
		0.362862457	0.010584186	0.028389126
		-		
		0.516546203	0.0003394	0.001373719
		-		
		0.896725227	5.43E-06	3.21E-05
		3.064205884	5.70E-18	1.62E-16
		2.662888325	4.27E-13	7.38E-12
		1.235454023	2.15E-06	1.37E-05
		-		
		1.095225947	0.000713977	0.002660373

ENSMMUG00000064748	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.128980342	0.002600836	0.008368495
ENSMMUG00000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	-	1.163153288	5.24E-11	6.88E-10
ENSMMUG00000052418		-	0.700110187	1.95E-07	1.50E-06
ENSMMUG00000018909	fetuin B [Source:VGNC Symbol;Acc:VGNC:72638]	-	0.734848086	3.51E-07	2.56E-06
ENSMMUG00000018910	histidine rich glycoprotein [Source:VGNC Symbol;Acc:VGNC:73521]	-	1.857082178	5.81E-10	6.60E-09
ENSMMUG00000022532	EPM2A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84184]	-	1.254874333	2.85E-06	1.78E-05
ENSMMUG00000049937	Y RNA [Source:RFAM;Acc:RF00019]	-	0.649814541	0.014220191	0.036533048
ENSMMUG00000054175		-	1.042264347	2.01E-09	2.11E-08
ENSMMUG00000021927	integrin subunit alpha 9 [Source:VGNC Symbol;Acc:VGNC:82165]	-	0.377940019	0.014136706	0.036378163
ENSMMUG00000000987	DLEC1 cilia and flagella associated protein [Source:VGNC Symbol;Acc:VGNC:71808]	-	0.533313188	0.002175518	0.007144138
ENSMMUG00000004847	xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]	-	0.984558224	6.11E-12	9.03E-11
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	-	3.195498985	1.40E-49	1.22E-46
ENSMMUG00000020150	xin actin binding repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:78952]	-	0.752602167	2.92E-10	3.45E-09
ENSMMUG00000051408	myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]	-	1.925759671	2.55E-19	8.19E-18
ENSMMUG00000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	-	2.071019288	8.31E-33	1.10E-30
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	-	2.657009325	1.05E-17	2.95E-16
ENSMMUG00000013330	ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]	-	2.84411191	6.99E-23	3.41E-21
ENSMMUG00000009437	zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]	-	2.903726486	1.50E-07	1.18E-06
ENSMMUG00000024178	U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]	-	2.959372832	0.001569623	0.005359323
ENSMMUG00000050991		-	0.970925852	6.01E-05	0.000287109
ENSMMUG00000001074	unc-51 like kinase 4 [Source:VGNC Symbol;Acc:VGNC:82565]	-	0.617348867	0.010157241	0.027427509
ENSMMUG00000052672		-	4.032477065	0.004684752	0.01404952
ENSMMUG00000001075	trafficking kinesin protein 1 [Source:VGNC Symbol;Acc:VGNC:79830]	-	0.676963333	0.001869259	0.006277427
ENSMMUG00000035160	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	2.3291133	0.003400198	0.010593475
ENSMMUG00000001077	cholecystokinin [Source:VGNC Symbol;Acc:VGNC:70716]	-	2.864802989	0.018174923	0.045034938
ENSMMUG00000050275		-	0.725166299	0.020560824	0.049970012
ENSMMUG00000021242	natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]	-	1.636182966	0.013931841	0.035969568
ENSMMUG00000021244	kelch like family member 40 [Source:VGNC Symbol;Acc:VGNC:74165]	-	2.249281648	0.015771245	0.039912553
ENSMMUG00000031684	KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]	-	2.883997338	1.12E-06	7.54E-06
ENSMMUG00000009745	protein O-linked mannose N-acetylglucosaminyltransferase 2 (beta 1,4-) [Source:VGNC Symbol;Acc:VGNC:84062]	-	1.523078712	0.002007296	0.006677479
ENSMMUG00000056798		-	2.290262248	5.33E-07	3.79E-06
ENSMMUG00000054286		-	1.561540271	2.94E-05	0.000150356
ENSMMUG00000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]	-	0.797232642	5.94E-14	1.14E-12
ENSMMUG00000040696	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.201582938	0.002073628	0.006868482
ENSMMUG00000017585	zinc finger protein 197 [Source:VGNC Symbol;Acc:VGNC:78864]	-	0.731737136	0.017065939	0.042700839
ENSMMUG00000051589		-	0.771016233	0.000412287	0.001637559
ENSMMUG00000019740	zinc finger DHHC-type palmitoyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:79143]	-	1.297443603	0.000525731	0.002032881
ENSMMUG00000019130	exosome component 7 [Source:VGNC Symbol;Acc:VGNC:72383]	-	1.056732381	0.009507013	0.025902813
ENSMMUG00000005742	CUB domain containing protein 1 [Source:VGNC Symbol;Acc:VGNC:70849]	-	1.398171847	0.000839299	0.003072957

ENSMMUG00000018020	leucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74063]	0.288025934	0.004608999	0.01385877
ENSMMUG00000056769	C-C motif chemokine receptor 1 [Source:VGNC Symbol;Acc:VGNC:70737]	0.994924095	5.84E-05	0.000279641
ENSMMUG00000004576	C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]	3.571917061	3.38E-31	3.56E-29
ENSMMUG00000062394	C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]	0.987104977	3.03E-05	0.000154458
ENSMMUG00000006454	kelch like family member 18 [Source:VGNC Symbol;Acc:VGNC:74154]	0.848181741	0.003389839	0.010567862
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	0.92523749	0.000214193	0.000907855
ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	1.603531047	6.63E-20	2.31E-18
ENSMMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]	1.426864196	8.06E-11	1.03E-09
ENSMMUG00000041434	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.458941561	0.013979522	0.036067556
ENSMMUG00000020954	cell division cycle 25A [Source:VGNC Symbol;Acc:VGNC:70794]	0.964721255	0.0007139	0.002660373
ENSMMUG00000064458		1.698314559	1.79E-07	1.38E-06
ENSMMUG00000003074	plexin B1 [Source:VGNC Symbol;Acc:VGNC:76187]	3.03665145	0.000321111	0.001306468
ENSMMUG00000050584	coiled-coil domain containing 51 [Source:NCBI gene;Acc:710311]	2.506220137	0.000702018	0.002623469
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	1.098940583	2.07E-26	1.46E-24
ENSMMUG00000043955	three prime repair exonuclease 1 [Source:VGNC Symbol;Acc:VGNC:82708]	0.936868231	7.62E-07	5.28E-06
ENSMMUG00000010062	shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]	0.921573161	4.84E-19	1.51E-17
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]	1.102389028	7.97E-19	2.44E-17
ENSMMUG00000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	2.670853531	5.06E-47	2.89E-44
ENSMMUG00000014699		2.118923686	1.46E-39	3.80E-37
ENSMMUG00000032659	mml-mir-711 [Source:miRBase;Acc:MI0012553]	1.983338407	8.12E-06	4.64E-05
ENSMMUG00000014707	cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]	1.532399523	0.001937992	0.006476092
ENSMMUG00000064174		1.574730256	0.00049626	0.001931637
ENSMMUG00000014720	NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]	1.663617731	7.82E-09	7.45E-08
ENSMMUG00000015418	solute carrier family 25 member 20 [Source:VGNC Symbol;Acc:VGNC:77473]	1.887326883	0.000987514	0.003562355
ENSMMUG00000039597	ariadne RBR E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708356]	1.929583249	0.002049398	0.006799234
ENSMMUG00000006130	prolyl 4-hydroxylase, transmembrane [Source:VGNC Symbol;Acc:VGNC:75693]	2.458219892	1.56E-05	8.49E-05
ENSMMUG00000005660	glutamine rich 1 [Source:VGNC Symbol;Acc:VGNC:76530]	1.808491779	0.010412728	0.028000137
ENSMMUG00000002943	glutaminyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:76634]	1.271531524	0.001536002	0.005264365
ENSMMUG00000002948	ubiquitin specific peptidase 19 [Source:VGNC Symbol;Acc:VGNC:78739]	1.38285457	0.003692942	0.011381198
ENSMMUG00000002952	laminin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:74229]	1.556666976	7.40E-05	0.000346908
ENSMMUG00000002836	coiled-coil domain containing 71 [Source:VGNC Symbol;Acc:VGNC:70862]	2.036382743	0.000230486	0.000970632
ENSMMUG00000002833	kelch domain containing 8B [Source:VGNC Symbol;Acc:VGNC:74142]	1.613690524	0.001794253	0.006053488
ENSMMUG00000052238		1.257912841	2.56E-12	4.00E-11
ENSMMUG00000014537	bassoon presynaptic cytomatrix protein [Source:VGNC Symbol;Acc:VGNC:70284]	0.828496224	4.94E-06	2.94E-05
ENSMMUG00000014540	acylaminoacyl-peptide hydrolase [Source:VGNC Symbol;Acc:VGNC:69982]	0.980044697	6.21E-05	0.000296082
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	0.738361148	7.12E-10	8.01E-09
ENSMMUG00000020979	inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]	0.558435079	0.020286982	0.049450352
ENSMMUG00000016476	TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]	0.509392989	0.002972295	0.009426674
ENSMMUG00000010342	solute carrier family 38 member 3 [Source:VGNC Symbol;Acc:VGNC:77502]	1.102006554	0.008641668	0.023882956
ENSMMUG00000056280	G protein subunit alpha i2 [Source:NCBI gene;Acc:703780]	1.079684183	9.02E-06	5.12E-05
ENSMMUG00000020117	semaphorin 3B [Source:VGNC Symbol;Acc:VGNC:77160]	-1.3753562	2.80E-06	1.75E-05
ENSMMUG00000007022	calcium voltage-gated channel auxiliary subunit alpha2delta 2 [Source:VGNC Symbol;Acc:VGNC:70508]	1.210647281	0.009539317	0.025966973
ENSMMUG00000010499	chromosome 2 C3orf18 homolog [Source:VGNC Symbol;Acc:VGNC:70622]	0.801241167	0.015342866	0.038961422
ENSMMUG00000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	1.804173869	1.61E-25	9.98E-24

ENSMMUG0000004280	DDB1 and CUL4 associated factor 1 [Source:VGNC Symbol;Acc:VGNC:71819]	1.45080839	0.000318871	0.001298779
ENSMMUG00000017351	stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]	0.945338549	4.31E-05	0.000212089
ENSMMUG00000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	1.23268678	3.91E-10	4.55E-09
ENSMMUG00000033553		0.472032203	0.019470852	0.047743507
ENSMMUG00000012511	G protein nucleolar 3 [Source:VGNC Symbol;Acc:VGNC:73038]	0.40123506	0.000354465	0.001428454
ENSMMUG00000037073	small nucleolar RNA, C/D box 19B [Source:HGNC Symbol;Acc:HGNC:33570]	1.033619642	0.002205659	0.007230312
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	0.891426563	2.21E-10	2.66E-09
ENSMMUG00000017370	signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]	0.865952918	0.003889616	0.011927833
ENSMMUG00000014527	Scm like with four mbt domains 1 [Source:VGNC Symbol;Acc:VGNC:77279]	-0.93960453	0.00506658	0.015021468
ENSMMUG00000019262	calcium voltage-gated channel subunit alpha1 D [Source:VGNC Symbol;Acc:VGNC:70501]	0.998019981	0.002739263	0.008773923
ENSMMUG00000019266	choline dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71086]	1.115328196	1.54E-07	1.20E-06
ENSMMUG00000019267	interleukin 17 receptor B [Source:VGNC Symbol;Acc:VGNC:73618]	1.198274839	1.03E-06	6.97E-06
ENSMMUG00000019269	actin related protein 8 [Source:VGNC Symbol;Acc:VGNC:69406]	0.977733094	0.01055791	0.028344282
ENSMMUG00000051778		0.477256841	0.01901555	0.046758515
ENSMMUG00000021620	ELKS/RAB6-interacting/CAST family member 2 [Source:VGNC Symbol;Acc:VGNC:72164]	0.644054591	0.002043021	0.006779594
ENSMMUG00000039085	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1 [Source:NCBI gene;Acc:100425753]	2.776269857	5.25E-05	0.000254095
ENSMMUG00000021008	ankyrin repeat and SOCS box containing 14 [Source:VGNC Symbol;Acc:VGNC:84237]	2.738632247	0.000481045	0.001878691
ENSMMUG00000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-1.50154846	6.62E-11	8.58E-10
ENSMMUG00000004052	phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]	1.247990312	0.006017272	0.017428934
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	1.902367288	2.37E-06	1.50E-05
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]	1.188108845	7.39E-11	9.52E-10
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	2.800897854	2.41E-46	1.32E-43
ENSMMUG00000057539		3.044429243	3.98E-18	1.15E-16
ENSMMUG00000001529	solute carrier family 25 member 26 [Source:VGNC Symbol;Acc:VGNC:77530]	1.666540606	3.63E-16	8.55E-15
ENSMMUG00000001531	leucine rich repeats and immunoglobulin like domains 1 [Source:VGNC Symbol;Acc:VGNC:84156]	1.665881274	2.72E-18	8.02E-17
ENSMMUG00000062338		1.292749512	8.21E-06	4.68E-05
ENSMMUG00000054412		1.480823779	6.08E-07	4.29E-06
ENSMMUG00000057486		1.14059008	2.07E-07	1.58E-06
ENSMMUG00000054043		2.265173152	0.002609325	0.008392351
ENSMMUG00000057543	MyoD family inhibitor domain containing 2 [Source:HGNC Symbol;Acc:HGNC:53442]	0.905060781	0.000212518	0.000901759
ENSMMUG00000009425	actin, cytoplasmic 2-like [Source:NCBI gene;Acc:705671]	0.713728134	0.000153897	0.000671461
ENSMMUG00000054107		1.175043973	5.76E-06	3.39E-05
ENSMMUG00000001849	interleukin 5 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73731]	1.065102828	0.001859247	0.006249464
ENSMMUG00000017983	tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]	2.049303088	6.84E-05	0.000322676
ENSMMUG00000060798		1.252425818	1.23E-06	8.22E-06
ENSMMUG00000012574	inositol 1,4,5-trisphosphate receptor type 1 [Source:VGNC Symbol;Acc:VGNC:73804]	0.431828739	0.0167136	0.041989274

ENSMMUG00000043287		-	0.413120148	0.015926376	0.040270785
ENSMMUG00000057502			3.268367717	0.013494071	0.035009984
ENSMMUG00000018281	interleukin 17 receptor E [Source:VGNC Symbol;Acc:VGNC:73623]		-0.82621344	2.13E-07	1.62E-06
ENSMMUG00000018282	interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]		0.949133834	7.58E-07	5.26E-06
ENSMMUG00000018285	cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]		1.204659107	5.96E-11	7.77E-10
ENSMMUG00000018289	proline rich transmembrane protein 3 [Source:VGNC Symbol;Acc:VGNC:76324]		0.839082386	3.63E-05	0.00018195
ENSMMUG00000018290	ER membrane protein complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72091]		1.169318061	3.31E-05	0.000167466
ENSMMUG00000019933	TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]		1.078257949	0.00281701	0.008982211
ENSMMUG00000019938	ATPase plasma membrane Ca ²⁺ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70181]		2.518212692	0.00490975	0.014629614
ENSMMUG00000021806	vestigial like family member 4 [Source:VGNC Symbol;Acc:VGNC:79755]		1.101466898	6.13E-05	0.000292442
ENSMMUG00000054916	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		1.112783267	0.003419314	0.010641853
ENSMMUG00000007195	tRNA splicing endonuclease subunit 2 [Source:VGNC Symbol;Acc:VGNC:82707]		1.152422758	4.45E-05	0.00021834
ENSMMUG00000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]		1.456516531	8.91E-08	7.23E-07
ENSMMUG00000023125	XPC complex subunit, DNA damage recognition and repair factor [Source:VGNC Symbol;Acc:VGNC:78809]		1.372434046	3.28E-06	2.02E-05
ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]		1.630778124	8.99E-16	2.05E-14
ENSMMUG00000057449			-1.54812556	0.004806683	0.014371593
ENSMMUG00000006340	solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]		0.917102326	2.53E-09	2.60E-08
ENSMMUG00000044822	coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]		1.107719555	4.86E-13	8.34E-12
ENSMMUG00000012727	intraflagellar transport 122 [Source:VGNC Symbol;Acc:VGNC:84167]		2.803190068	0.007204974	0.020363973
ENSMMUG00000018663	eukaryotic elongation factor, selenocysteine-tRNA specific [Source:VGNC Symbol;Acc:VGNC:72097]		2.033785372	0.006351783	0.018276474
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]		1.391746302	1.51E-13	2.75E-12
ENSMMUG00000000756	transmembrane protein adipocyte associated 1 [Source:VGNC Symbol;Acc:VGNC:79848]		0.8375393	0.000280289	0.001153674
ENSMMUG00000016719	coiled-coil-helix-coiled-coil-helix domain containing 6 [Source:VGNC Symbol;Acc:VGNC:71119]		0.459200979	0.01435862	0.036840541
ENSMMUG00000049548			1.112214037	3.27E-07	2.40E-06
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]		1.052668152	6.29E-07	4.43E-06
ENSMMUG00000032031			1.462326083	0.00053902	0.002079516
ENSMMUG00000061615			-1.80827779	0.009408165	0.025694858
ENSMMUG00000049323			1.154446602	0.011453321	0.030434108
ENSMMUG00000001949	coiled-coil domain containing 191 [Source:VGNC Symbol;Acc:VGNC:70901]		1.332570556	0.000250798	0.001046817
ENSMMUG00000001946	zinc finger DHHC-type palmitoyltransferase 23 [Source:VGNC Symbol;Acc:VGNC:79731]		1.258412901	0.000258335	0.001074341
ENSMMUG00000001943	GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]		0.984017605	3.02E-05	0.000154458
ENSMMUG00000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]		0.953178506	7.32E-08	6.01E-07
ENSMMUG00000057363			1.486639424	1.31E-05	7.20E-05
ENSMMUG00000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]		1.973633635	4.62E-21	1.85E-19
ENSMMUG00000014876	nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]		1.900900718	2.47E-12	3.89E-11
ENSMMUG00000003199	CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]		1.901751419	3.79E-07	2.75E-06
ENSMMUG00000050558			0.856074983	0.000665124	0.002501597

ENSMMUG0000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]	2.467998013	0.003119923	0.009827625
ENSMMUG00000019977	myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]	1.617344951	4.35E-08	3.67E-07
ENSMMUG00000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	1.970280689	2.96E-09	3.02E-08
ENSMMUG00000008787	BBX high mobility group box domain containing [Source:VGNC Symbol;Acc:VGNC:82110]	0.637211167	1.42E-06	9.37E-06
ENSMMUG00000058765		1.467643756	7.62E-06	4.38E-05
ENSMMUG00000055345	Y RNA [Source:RFAM;Acc:RF00019]	0.955766872	1.10E-07	8.86E-07
ENSMMUG00000063790		2.063413146	0.00109532	0.003907528
ENSMMUG00000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]	1.020836129	5.24E-06	3.10E-05
ENSMMUG00000026103	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.843242543	8.45E-05	0.000392178
ENSMMUG00000060744		2.128757882	1.69E-10	2.07E-09
ENSMMUG00000021859	zona pellucida like domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79650]	0.515021593	0.000378611	0.001517514
ENSMMUG00000063181		0.410272919	0.010738002	0.028739321
ENSMMUG00000059753		0.951955049	2.45E-08	2.17E-07
ENSMMUG00000021567	neurexophilin and PC-esterase domain family member 3 [Source:VGNC Symbol;Acc:VGNC:75476]	0.725470231	1.53E-07	1.20E-06
ENSMMUG00000058605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.847225946	0.000165244	0.00071654
ENSMMUG00000057768		1.445279772	5.52E-15	1.18E-13
ENSMMUG00000024598	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.956039781	3.04E-05	0.000155162
ENSMMUG00000038349	crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]	1.091194055	3.21E-19	1.02E-17
ENSMMUG00000049786		1.181779028	0.018920317	0.04660089
ENSMMUG00000043727	zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]	2.023214941	5.63E-05	0.000270409
ENSMMUG00000047994	CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]	1.946558354	8.72E-08	7.09E-07
ENSMMUG00000033738	RNA, U6atac small nuclear 6, pseudogene [Source:HGNC Symbol;Acc:HGNC:46905]	0.945121763	1.27E-06	8.45E-06
ENSMMUG00000000519	vestigial like family member 3 [Source:VGNC Symbol;Acc:VGNC:79430]	1.115253198	0.00796022	0.022227464
ENSMMUG00000050994		1.587587503	0.000512267	0.001988728
ENSMMUG00000015877	1,4-alpha-glucan branching enzyme 1 [Source:VGNC Symbol;Acc:VGNC:72894]	0.698694013	7.91E-05	0.000368403
ENSMMUG00000055096		0.560853622	0.003002174	0.009495039
ENSMMUG00000049913		1.254220101	0.000672723	0.002526973
ENSMMUG00000056687		1.246807631	2.47E-05	0.000128795
ENSMMUG00000052831		0.450410068	0.017193916	0.042941357
ENSMMUG00000032295	zinc finger protein 595 [Source:VGNC Symbol;Acc:VGNC:79655]	-0.84544874	0.000491425	0.001914827
ENSMMUG00000047256	zinc finger protein 732 [Source:NCBI gene;Acc:716016]	1.353171289	0.009858141	0.026717148
ENSMMUG00000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.734654591	1.12E-10	1.41E-09
ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	1.717889697	2.12E-12	3.35E-11
ENSMMUG00000017457	phosphatidylinositol glycan anchor biosynthesis class G [Source:VGNC Symbol;Acc:VGNC:75865]	0.600301104	0.0176093	0.043809078

ENSMMUG00000017221	transmembrane protein 175 [Source:VGNC Symbol;Acc:VGNC:79736]	0.488374792	0.018153148	0.044996019
ENSMMUG00000065084		-0.34779509	0.000272646	0.00112628
ENSMMUG00000008323	C-terminal binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71539]	0.579396566	5.03E-06	2.99E-05
ENSMMUG00000019945	fibroblast growth factor receptor 3 [Source:VGNC Symbol;Acc:VGNC:72653]	1.092048838	4.55E-06	2.73E-05
ENSMMUG00000032306	zinc finger FYVE-type containing 28 [Source:NCBI gene;Acc:720600]	1.157911178	1.53E-05	8.36E-05
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	1.604915504	5.29E-14	1.02E-12
ENSMMUG00000008383	major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]	1.916043812	1.33E-22	6.35E-21
ENSMMUG00000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	1.546475632	1.83E-18	5.49E-17
ENSMMUG00000008392	huntingtin [Source:VGNC Symbol;Acc:VGNC:73468]	0.871253599	3.47E-09	3.50E-08
ENSMMUG00000006234	acyl-CoA oxidase 3, pristanoyl [Source:VGNC Symbol;Acc:VGNC:69382]	0.481718334	0.000110735	0.000499907
ENSMMUG00000030400	SH3 domain and tetratricopeptide repeats 1 [Source:NCBI gene;Acc:722649]	0.747132284	4.21E-06	2.54E-05
ENSMMUG00000053541		1.417346976	0.000712094	0.002655356
ENSMMUG00000015099	janus kinase and microtubule interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73662]	0.518929919	0.002557565	0.008245368
ENSMMUG00000023152		0.949737299	0.010016978	0.027083968
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	1.590188038	7.65E-20	2.64E-18
ENSMMUG00000057703		1.460754271	3.64E-08	3.11E-07
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	1.514371038	1.41E-12	2.28E-11
ENSMMUG00000020860	EvC ciliary complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72301]	0.554588152	0.002010898	0.006687962
ENSMMUG00000016922	serine/threonine kinase 32B [Source:VGNC Symbol;Acc:VGNC:78114]	0.864136483	0.001314365	0.004595008
ENSMMUG00000060830		3.558343724	0.000877553	0.003192863
ENSMMUG00000023242	transmembrane protein 128 [Source:VGNC Symbol;Acc:VGNC:82257]	0.695686128	0.001748907	0.005911223
ENSMMUG00000017761	zinc finger protein 518B [Source:VGNC Symbol;Acc:VGNC:79802]	1.271912805	0.012039448	0.031769576
ENSMMUG00000049640		-0.9049966	4.77E-05	0.000233059
ENSMMUG00000056982		0.535912734	0.0002142	0.000907855
ENSMMUG00000061061		3.335161494	0.007109199	0.020137523
ENSMMUG00000053853	C1q and TNF related 7 [Source:NCBI gene;Acc:714049]	0.478140124	0.007943949	0.022194567
ENSMMUG00000009388	F-box and leucine rich repeat protein 5 [Source:VGNC Symbol;Acc:VGNC:81408]	3.693120621	0.000412316	0.001637559
ENSMMUG00000061298		3.805620323	7.57E-05	0.000354141
ENSMMUG00000015298	CD38 molecule [Source:VGNC Symbol;Acc:VGNC:70762]	1.276067189	0.00223212	0.00730736
ENSMMUG00000008162	fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]	2.139274278	4.87E-27	3.72E-25
ENSMMUG00000008163	fibroblast growth factor binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72599]	1.54922462	0.008445294	0.023417845
ENSMMUG00000044289		1.846896779	0.012935469	0.033761528
ENSMMUG00000023116	LIM domain binding 2 [Source:VGNC Symbol;Acc:VGNC:74246]	1.084121682	6.42E-08	5.33E-07
ENSMMUG00000018070	non-SMC condensin I complex subunit G [Source:VGNC Symbol;Acc:VGNC:75014]	2.298821612	0.019999732	0.048846513
ENSMMUG00000018073	ligand dependent nuclear receptor corepressor like [Source:NCBI gene;Acc:715285]	1.233362441	6.50E-08	5.39E-07
ENSMMUG00000057338		0.597181929	0.01633241	0.041150127
ENSMMUG00000060440	leucine rich repeat LGI family member 2 [Source:NCBI gene;Acc:693308]	0.657318787	1.86E-10	2.27E-09
ENSMMUG00000003629	phosphatidylinositol 4-kinase type 2 beta [Source:NCBI gene;Acc:693561]	2.007368466	2.33E-05	0.000122099

ENSMMUG00000053638		-	0.732710321	0.005928706	0.017209377
ENSMMUG00000049298	cholecystinin A receptor [Source:NCBI gene;Acc:694742]		7.193475326	3.28E-13	5.72E-12
ENSMMUG00000057711			0.80892162	0.003016837	0.009529736
ENSMMUG00000055119			2.631333553	0.011781892	0.031189835
ENSMMUG00000051768			2.793078326	3.65E-12	5.57E-11
ENSMMUG00000060404			1.658662022	0.00869044	0.024004326
ENSMMUG00000049637			0.73673111	0.005318347	0.015649025
ENSMMUG00000057377			1.894822333	0.012228492	0.032190001
ENSMMUG0000000237	TBC1 domain family member 1 [Source:VGNC Symbol;Acc:VGNC:78103]		0.565078536	0.001404178	0.004871103
ENSMMUG00000050580			0.51227272	0.011053543	0.029488045
ENSMMUG00000055079			0.848302232	5.91E-10	6.70E-09
ENSMMUG00000003363	Kruppel like factor 3 [Source:VGNC Symbol;Acc:VGNC:73840]		2.433638801	0.000591412	0.002253505
ENSMMUG00000004471	family with sequence similarity 114 member A1 [Source:VGNC Symbol;Acc:VGNC:72342]		1.098886578	0.004048159	0.012357803
ENSMMUG00000002755	kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]		2.044933107	0.000154867	0.000674698
ENSMMUG00000050388	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		0.736678343	0.015951627	0.040307144
ENSMMUG00000009324	replication factor C subunit 1 [Source:NCBI gene;Acc:698987]		0.864996257	0.000257474	0.001071666
ENSMMUG00000008834	klotho beta [Source:VGNC Symbol;Acc:VGNC:73835]		1.932257109	0.001462065	0.005043598
ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]		1.349185294	1.55E-07	1.21E-06
ENSMMUG00000063857	ras homolog family member H [Source:NCBI gene;Acc:700499]		0.354244847	0.015203728	0.03867432
ENSMMUG00000012036	RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]		0.640495315	2.29E-05	0.000120034
ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]		1.424865824	2.95E-13	5.15E-12
ENSMMUG00000055441			2.160995871	6.71E-08	5.55E-07
ENSMMUG00000007805	LIM and calponin homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74155]		-1.14759481	0.002479946	0.008017648
ENSMMUG00000051296	paired like homeobox 2B [Source:NCBI gene;Acc:701940]		1.361371641	0.000137309	0.000606218
ENSMMUG00000053719	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		2.739706564	0.00606431	0.017544618
ENSMMUG00000030349	glutaredoxin and cysteine rich domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73262]		1.276489539	0.016863757	0.042302014
ENSMMUG00000018625	NIPA like domain containing 1 [Source:NCBI gene;Acc:704998]		-0.97335879	6.24E-06	3.64E-05
ENSMMUG00000055221	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		1.659509044	0.000870851	0.003173932
ENSMMUG00000006703	solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]		1.482205007	8.89E-09	8.38E-08
ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]		1.063055109	6.61E-06	3.85E-05
ENSMMUG00000006705	FRY like transcription coactivator [Source:VGNC Symbol;Acc:VGNC:72803]		0.871622868	0.001873394	0.006289421
ENSMMUG00000056196			1.153828258	0.000563763	0.002162041
ENSMMUG00000052435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		1.877591938	2.29E-06	1.45E-05
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]		1.436847001	4.76E-11	6.27E-10
ENSMMUG00000058229	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]		3.396065351	5.34E-07	3.80E-06
ENSMMUG00000008514	lin-54 DREAM MuvB core complex component [Source:VGNC Symbol;Acc:VGNC:74123]		1.687360163	4.80E-05	0.000234131
ENSMMUG00000008510	THAP domain containing 9 [Source:VGNC Symbol;Acc:VGNC:79379]		1.291458135	1.98E-05	0.000105405

ENSMMUG00000052743	stearoyl-CoA desaturase 5 [Source:NCBI gene;Acc:694079]	-	0.868087192	0.000837882	0.00307037
ENSMMUG00000059119		-	2.334146691	0.015029086	0.038315513
ENSMMUG00000001485	transmembrane protein 150C [Source:NCBI gene;Acc:694136]	-	1.619874062	0.010230359	0.027599824
ENSMMUG00000048621	enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]	-	2.395680542	3.33E-12	5.13E-11
ENSMMUG00000060484	heterogeneous nuclear ribonucleoprotein D [Source:NCBI gene;Acc:694867]	-	1.172414746	2.28E-05	0.000119548
ENSMMUG00000052348		-	1.606140018	5.12E-07	3.65E-06
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	-	1.316712585	2.14E-12	3.38E-11
ENSMMUG00000007366		-	1.0880028	1.53E-07	1.20E-06
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]	-	2.009739034	7.01E-23	3.41E-21
ENSMMUG00000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	-	3.140102799	1.04E-38	2.34E-36
ENSMMUG00000019901	septin 11 [Source:VGNC Symbol;Acc:VGNC:77310]	-	0.538609649	0.002090244	0.006914639
ENSMMUG00000019904	cyclin I [Source:VGNC Symbol;Acc:VGNC:70733]	-	1.539204714	0.003081393	0.00971451
ENSMMUG00000018186	sosondawah ankyrin repeat domain family member B [Source:VGNC Symbol;Acc:VGNC:78033]	-	-0.89175768	2.23E-11	3.05E-10
ENSMMUG00000020919	shroom family member 3 [Source:VGNC Symbol;Acc:VGNC:77352]	-	2.156890749	2.69E-08	2.36E-07
ENSMMUG00000020916	coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]	-	1.230069546	3.86E-17	1.02E-15
ENSMMUG00000020913	scavenger receptor class B member 2 [Source:VGNC Symbol;Acc:VGNC:77026]	-	1.117083308	0.000168009	0.00072662
ENSMMUG00000020910	nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]	-	1.843218131	5.53E-08	4.63E-07
ENSMMUG00000002153	G3BP stress granule assembly factor 2 [Source:NCBI gene;Acc:701343]	-	3.158018862	0.008367303	0.023243527
ENSMMUG00000003833	Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]	-	1.495574613	3.93E-05	0.000194482
ENSMMUG00000003830	alpha fetoprotein [Source:VGNC Symbol;Acc:VGNC:69741]	-	1.421059612	0.005036072	0.014942967
ENSMMUG00000003827	albumin [Source:VGNC Symbol;Acc:VGNC:69782]	-	1.591697365	1.61E-09	1.71E-08
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	-	2.301261813	4.30E-13	7.42E-12
ENSMMUG00000052832		-	1.222801763	0.002064603	0.006843554
ENSMMUG00000006031	casein kappa [Source:VGNC Symbol;Acc:VGNC:71522]	-	1.858124124	0.007895882	0.02207691
ENSMMUG00000062248	follicular dendritic cell secreted protein [Source:NCBI gene;Acc:707784]	-	0.993051615	3.45E-05	0.000173845
ENSMMUG00000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]	-	1.001297054	0.000328411	0.001332879
ENSMMUG00000048823		-	1.149759708	3.33E-09	3.37E-08
ENSMMUG00000004849	casein beta [Source:VGNC Symbol;Acc:VGNC:71523]	-	1.360891696	6.84E-09	6.58E-08
ENSMMUG00000047324	casein alpha s1 [Source:HGNC Symbol;Acc:HGNC:2445]	-	1.768859048	0.000432314	0.001708581
ENSMMUG00000004667	sulfotransferase family 1E member 1 [Source:NCBI gene;Acc:708519]	-	1.120687412	0.017216037	0.042960428
ENSMMUG00000009390	centromere protein C [Source:VGNC Symbol;Acc:VGNC:71007]	-	-0.34980243	0.014478482	0.037128806
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	-	-1.0360796	5.28E-09	5.17E-08
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]	-	1.966065565	4.94E-09	4.85E-08
ENSMMUG00000010113	steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]	-	1.399446828	2.30E-07	1.74E-06
ENSMMUG00000057204	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.645890293	0.006358248	0.018291525
ENSMMUG00000054500		-	1.845912901	0.004765877	0.014261089
ENSMMUG00000060048		-	0.677329477	0.015313601	0.0389271

ENSMMUG00000059659		-	0.967094992	0.000471697	0.001844743
ENSMMUG00000052882	RAS like family 11 member B [Source:NCBI gene;Acc:701397]		2.318974789	0.00326742	0.010244246
ENSMMUG00000018943	spermatogenesis associated 18 [Source:VGNC Symbol;Acc:VGNC:78013]		1.808252808	6.99E-07	4.88E-06
ENSMMUG00000018939	leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]		1.798929169	1.35E-13	2.46E-12
ENSMMUG00000008579	defective in cullin neddylation 1 domain containing 4 [Source:VGNC Symbol;Acc:VGNC:71809]		1.752918107	4.46E-07	3.21E-06
ENSMMUG00000003726	protein tyrosine phosphatase non-receptor type 13 [Source:VGNC Symbol;Acc:VGNC:76599]		1.188422965	6.04E-05	0.000288704
ENSMMUG00000059657	chromosome 5 C4orf36 homolog [Source:NCBI gene;Acc:700500]		1.194060104	0.001182767	0.004186262
ENSMMUG00000014076	AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]		2.259196747	9.13E-06	5.16E-05
ENSMMUG00000051677			1.339535416	2.42E-11	3.30E-10
ENSMMUG00000014080	kelch like family member 8 [Source:VGNC Symbol;Acc:VGNC:74076]		1.334282688	4.29E-05	0.000211203
ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]		1.30304659	6.28E-12	9.25E-11
ENSMMUG00000019041	hydroxysteroid 17-beta dehydrogenase 11 [Source:VGNC Symbol;Acc:VGNC:73431]		0.994822681	2.20E-05	0.000115948
ENSMMUG00000008795	polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]		1.167848353	1.24E-06	8.26E-06
ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]		1.221549968	1.19E-06	8.00E-06
ENSMMUG00000028039	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]		2.121513522	0.003701039	0.011401415
ENSMMUG00000058698			-1.00439793	0.011805842	0.031242084
ENSMMUG00000010138	HECT and RLD domain containing E3 ubiquitin protein ligase 3 [Source:VGNC Symbol;Acc:VGNC:73365]		0.659941474	2.35E-05	0.00012301
ENSMMUG00000058544	nucleosome assembly protein 1 like 5 [Source:NCBI gene;Acc:703223]		0.870154608	2.61E-07	1.96E-06
ENSMMUG00000010141	family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]		0.914283404	3.78E-07	2.75E-06
ENSMMUG00000032793	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]		-2.70922892	0.000479313	0.001873048
ENSMMUG00000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]		-2.6738693	3.15E-19	1.00E-17
ENSMMUG00000049396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		2.738920183	2.87E-06	1.79E-05
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]		1.677189008	1.02E-06	6.91E-06
ENSMMUG00000056021			1.139453881	0.020529936	0.049919486
ENSMMUG00000022246	PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]		1.04478326	5.57E-06	3.28E-05
ENSMMUG00000060760			1.430559254	2.14E-08	1.91E-07
ENSMMUG00000006702	bone morphogenetic protein receptor type 1B [Source:VGNC Symbol;Acc:VGNC:70267]		1.753143761	3.33E-05	0.000168126
ENSMMUG00000006309	unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]		3.239279278	2.91E-06	1.81E-05
ENSMMUG00000011702	tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]		1.905054142	7.00E-09	6.73E-08
ENSMMUG00000063972			1.158123304	3.73E-06	2.27E-05
ENSMMUG00000011066	eukaryotic translation initiation factor 4E [Source:NCBI gene;Acc:706751]		2.117982883	0.0019523	0.006517922
ENSMMUG00000040764	alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]		1.350298686	4.37E-07	3.15E-06
ENSMMUG00000018738	alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]		0.906213116	8.02E-08	6.54E-07
ENSMMUG00000061366			0.604949008	0.001240145	0.00436331
ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]		2.403900596	3.12E-10	3.68E-09

ENSMMUG00000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.564027706	1.53E-11	2.13E-10
ENSMMUG0000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	2.553960537	3.10E-10	3.66E-09
ENSMMUG0000003739	mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]	2.43834061	3.53E-23	1.79E-21
ENSMMUG00000042419		2.142382859	0.000935958	0.003386255
ENSMMUG00000011206	solute carrier family 9 member B1 [Source:NCBI gene;Acc:710949]	0.961201095	1.34E-09	1.44E-08
ENSMMUG00000011207		0.862105487	0.001015289	0.003648347
ENSMMUG00000019083	solute carrier family 9 member B2 [Source:VGNC Symbol;Acc:VGNC:77773]	1.025821369	4.12E-06	2.49E-05
ENSMMUG00000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	1.239538644	3.55E-12	5.43E-11
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	1.19192897	2.86E-10	3.40E-09
ENSMMUG00000049998	tachykinin receptor 3 [Source:NCBI gene;Acc:653013]	1.441007761	0.000496111	0.001931563
ENSMMUG00000010941	Rho guanine nucleotide exchange factor 38 [Source:VGNC Symbol;Acc:VGNC:82087]	0.506466574	0.000182915	0.00078627
ENSMMUG00000011722	integrator complex subunit 12 [Source:VGNC Symbol;Acc:VGNC:73647]	0.509786635	0.002370547	0.007714552
ENSMMUG00000018811	glutathione S-transferase C-terminal domain containing [Source:VGNC Symbol;Acc:VGNC:73234]	0.749037552	0.005741904	0.016729359
ENSMMUG00000023428	nephronectin [Source:VGNC Symbol;Acc:VGNC:75266]	2.255970383	0.015337842	0.038961422
ENSMMUG00000023256	lymphoid enhancer binding factor 1 [Source:VGNC Symbol;Acc:VGNC:74251]	0.448872014	0.009474942	0.025848673
ENSMMUG00000009066	60S ribosomal protein L26 [Source:NCBI gene;Acc:696134]	2.291906157	0.001675507	0.005688591
ENSMMUG00000060432		1.272973578	0.001405364	0.004874077
ENSMMUG00000052609	ribosomal protein L34 [Source:NCBI gene;Acc:696636]	3.492844739	7.13E-15	1.51E-13
ENSMMUG00000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	3.659965308	2.29E-32	2.80E-30
ENSMMUG00000055759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.857076863	2.00E-14	4.01E-13
ENSMMUG00000010043	epidermal growth factor [Source:VGNC Symbol;Acc:VGNC:72171]	1.080331627	1.60E-07	1.25E-06
ENSMMUG00000050694	ELOVL fatty acid elongase 6 [Source:NCBI gene;Acc:698870]	0.390198907	0.011056669	0.029491081
ENSMMUG00000062794		3.214104802	2.16E-21	8.96E-20
ENSMMUG00000008705	ubiquitin specific peptidase 53 [Source:VGNC Symbol;Acc:VGNC:79793]	2.620248285	0.000567425	0.002173835
ENSMMUG00000007305	phosphodiesterase 5A [Source:VGNC Symbol;Acc:VGNC:75918]	2.107224686	0.015078879	0.038429245
ENSMMUG00000054168	mitotic arrest deficient 2 like 1 [Source:NCBI gene;Acc:708574]	2.211670562	0.012341558	0.032457049
ENSMMUG00000009816	exosome component 9 [Source:VGNC Symbol;Acc:VGNC:72477]	1.247702686	0.003300721	0.010322583
ENSMMUG00000061098		1.8533901	4.29E-26	2.86E-24
ENSMMUG00000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	1.477814817	3.08E-12	4.78E-11
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	1.348600609	4.56E-13	7.86E-12
ENSMMUG000000056171		1.247500425	0.001453272	0.005017932
ENSMMUG000000054312		1.916314005	0.002029241	0.006738389
ENSMMUG00000011810	FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]	2.831593914	1.92E-11	2.64E-10
ENSMMUG00000057895		3.234926824	0.000192897	0.000825112
ENSMMUG00000051329		1.759395012	6.62E-07	4.65E-06
ENSMMUG00000049109		1.882545791	0.002702221	0.008660889
ENSMMUG00000010444	ring finger protein 150 [Source:VGNC Symbol;Acc:VGNC:76805]	2.935987419	0.001370858	0.004769257

ENSMMUG00000060157	zinc finger protein 330 [Source:NCBI gene;Acc:699364]	0.712572931	7.42E-06	4.27E-05
ENSMMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]	1.672782698	1.60E-11	2.23E-10
ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]	0.890037798	0.011819087	0.031265976
ENSMMUG00000014173		-1.96405214	1.22E-07	9.75E-07
ENSMMUG00000007968	hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]	2.159348634	4.90E-16	1.14E-14
ENSMMUG00000004432	anaphase promoting complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:69682]	1.125864615	0.008331602	0.023161842
ENSMMUG00000004433	ATP binding cassette subfamily E member 1 [Source:VGNC Symbol;Acc:VGNC:69581]	1.038507799	0.004108688	0.012529683
ENSMMUG00000004437	OTU deubiquitinase 4 [Source:VGNC Symbol;Acc:VGNC:75675]	1.160571435	0.001299805	0.004552695
ENSMMUG00000005380	zinc finger protein 827 [Source:NCBI gene;Acc:706018]	0.747075832	0.000716751	0.002669367
ENSMMUG00000014953	Rho GTPase activating protein 10 [Source:VGNC Symbol;Acc:VGNC:69914]	1.043069675	0.005108265	0.015111822
ENSMMUG00000014955	nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]	2.707973929	5.84E-11	7.62E-10
ENSMMUG00000002211	doublecortin like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71670]	0.784733784	0.001220365	0.004302902
ENSMMUG00000002212	LPS responsive beige-like anchor protein [Source:NCBI gene;Acc:693823]	1.215782443	0.000155616	0.000677566
ENSMMUG00000039441	mab-21 like 2 [Source:NCBI gene;Acc:693948]	2.379208425	1.57E-05	8.52E-05
ENSMMUG00000059101		2.714793188	2.63E-08	2.31E-07
ENSMMUG00000020330	F-box and WD repeat domain containing 7 [Source:VGNC Symbol;Acc:VGNC:72516]	1.946864296	0.002234506	0.007310329
ENSMMUG00000064587		2.065807151	0.000857112	0.003130781
ENSMMUG00000063665		-1.77138673	0.000220418	0.000931018
ENSMMUG00000052327		1.852854807	7.24E-06	4.18E-05
ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]	2.112434506	1.06E-26	7.83E-25
ENSMMUG00000018493	FH2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72598]	2.027340096	2.17E-09	2.26E-08
ENSMMUG00000065105		1.668297712	0.000998244	0.003597561
ENSMMUG00000039869		0.948418339	0.000587404	0.00223996
ENSMMUG00000009001	transmembrane 131 like [Source:VGNC Symbol;Acc:VGNC:79781]	1.361722194	2.75E-05	0.000141764
ENSMMUG00000057060		1.057109156	0.003754619	0.011552074
ENSMMUG00000057643		0.815446486	1.82E-07	1.40E-06
ENSMMUG00000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	0.600078325	1.62E-07	1.26E-06
ENSMMUG00000064074		0.828784204	6.76E-05	0.00031934
ENSMMUG00000021147	RNA binding motif protein 46 [Source:VGNC Symbol;Acc:VGNC:76555]	0.653109568	0.000113754	0.000511724
ENSMMUG00000023244	guanylate cyclase 1 soluble subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73327]	1.546305376	0.005020761	0.0149035
ENSMMUG00000022019	cathepsin O [Source:VGNC Symbol;Acc:VGNC:71561]	0.712572665	1.78E-07	1.38E-06
ENSMMUG00000064707		2.519127864	2.44E-14	4.84E-13
ENSMMUG00000053790		2.004340004	9.39E-14	1.76E-12
ENSMMUG00000010581	Rap guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:76493]	2.05097277	2.12E-05	0.000111762
ENSMMUG00000053650		3.053311332	0.003779244	0.011622172
ENSMMUG00000015799	tolloid like 1 [Source:VGNC Symbol;Acc:VGNC:78369]	-1.1699449	1.44E-05	7.87E-05

ENSMMUG00000045101		0.677565622	0.000593721	0.002261721
ENSMMUG00000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	3.956170642	1.97E-23	1.04E-21
ENSMMUG00000001879	annexin A10 [Source:VGNC Symbol;Acc:VGNC:69945]	1.224497212	5.11E-08	4.29E-07
ENSMMUG00000001880	DExD/H-box helicase 60 [Source:VGNC Symbol;Acc:VGNC:71711]	1.366260358	8.42E-23	4.07E-21
ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]	-1.34592002	6.19E-06	3.61E-05
ENSMMUG00000013730	WD repeat domain 17 [Source:NCBI gene;Acc:700546]	0.626402551	4.66E-07	3.34E-06
		-		
ENSMMUG00000064304		0.601586124	5.14E-05	0.000249041
		-		
ENSMMUG00000049670		4.067583233	0.001216322	0.004292732
		-		
ENSMMUG00000015733	sorbin and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77767]	1.221434795	0.012495278	0.032768342
ENSMMUG00000011633	kallikrein B1 [Source:VGNC Symbol;Acc:VGNC:74195]	1.865288995	0.002138114	0.007045863
ENSMMUG00000011634	coagulation factor XI [Source:VGNC Symbol;Acc:VGNC:72460]	1.610522344	0.012411907	0.032613144
		-		
ENSMMUG00000018051	FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]	0.901922821	8.80E-15	1.85E-13
ENSMMUG00000050600		2.326158663	0.006298225	0.018139964
ENSMMUG00000058448		0.622772483	0.018569641	0.045821594
ENSMMUG00000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	2.803868801	4.76E-26	3.14E-24
ENSMMUG00000010967	tripartite motif family like 2 [Source:VGNC Symbol;Acc:VGNC:79603]	3.423798528	0.000384956	0.001537956
		-		
ENSMMUG00000054799		2.084057895	0.000156103	0.000679087
		-		
ENSMMUG00000064721		1.948148329	0.000263211	0.001091637
		-		
ENSMMUG00000052287		2.911046796	3.71E-07	2.70E-06
		-		
ENSMMUG00000044628		2.677168598	2.79E-07	2.08E-06
ENSMMUG00000063077	S100 calcium binding protein B [Source:NCBI gene;Acc:708117]	1.538834345	0.000795132	0.002931099
ENSMMUG00000015797	disco interacting protein 2 homolog A [Source:VGNC Symbol;Acc:VGNC:71641]	0.973056317	3.64E-07	2.66E-06
ENSMMUG00000062496		3.650044665	0.001040256	0.003726435
ENSMMUG00000000544	collagen type VI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:82084]	2.941314781	0.009040015	0.024821962
ENSMMUG00000055589		2.285706042	7.45E-11	9.60E-10
ENSMMUG00000052777		2.43275464	1.08E-09	1.18E-08
ENSMMUG00000004477	solute carrier family 19 member 1 [Source:VGNC Symbol;Acc:VGNC:77408]	2.090796258	3.04E-08	2.65E-07
ENSMMUG00000004472	collagen type XVIII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81291]	2.678674234	2.63E-05	0.000136278
		-		
ENSMMUG00000010695	adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]	1.872456002	1.57E-09	1.67E-08
ENSMMUG00000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]	1.076382414	1.79E-07	1.39E-06
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]	2.258696184	6.44E-45	3.29E-42
		-		
ENSMMUG00000048545	small ubiquitin like modifier 3 [Source:NCBI gene;Acc:710764]	0.459279158	0.014712452	0.037650676
ENSMMUG00000049755	leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]	3.464153409	3.50E-10	4.08E-09
ENSMMUG00000004175	transient receptor potential cation channel subfamily M member 2 [Source:VGNC Symbol;Acc:VGNC:78655]	1.730311363	3.53E-09	3.56E-08
		-		
ENSMMUG00000004173	phosphofructokinase, liver type [Source:VGNC Symbol;Acc:VGNC:81737]	0.841781752	1.75E-06	1.14E-05
		-		
ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]	1.837996441	7.74E-13	1.30E-11
		-		
ENSMMUG00000005271	PWP2 small subunit processome component [Source:NCBI gene;Acc:722216]	0.515412698	0.000826258	0.003031521
		-		
ENSMMUG00000005269	trafficking protein particle complex 10 [Source:NCBI gene;Acc:713177]	0.343447984	0.000644292	0.002434358
ENSMMUG00000045179	1-acylglycerol-3-phosphate O-acyltransferase 3 [Source:NCBI gene;Acc:713301]	0.687770401	2.75E-05	0.000141773

ENSMMUG00000012304	ribosomal RNA processing 1 [Source:VGNC Symbol;Acc:VGNC:77050]	-	0.655406866	0.003567275	0.011046709
ENSMMUG0000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]	-	1.498321044	3.08E-12	4.77E-11
ENSMMUG00000022791	heat shock transcription factor 2 binding protein [Source:VGNC Symbol;Acc:VGNC:73532]	-	1.809936024	1.28E-06	8.51E-06
ENSMMUG00000020050	salt inducible kinase 1 [Source:NCBI gene;Acc:722303]	-	1.497646934	0.000576555	0.002205393
ENSMMUG00000022107	phosphodiesterase 9A [Source:VGNC Symbol;Acc:VGNC:75925]	-	-3.66606496	0.000138518	0.000611374
ENSMMUG00000018081	ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]	-	1.638492487	3.25E-08	2.81E-07
ENSMMUG00000057951	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	2.769388502	0.000610177	0.002318452
ENSMMUG00000018079	transmembrane serine protease 3 [Source:VGNC Symbol;Acc:VGNC:78576]	-	1.355702114	0.000148294	0.000649692
ENSMMUG00000018058	ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]	-	-2.12971798	2.43E-11	3.31E-10
ENSMMUG00000018057	uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]	-	1.354594087	1.43E-07	1.13E-06
ENSMMUG00000018053	zinc finger and BTB domain containing 21 [Source:VGNC Symbol;Acc:VGNC:78892]	-	0.517287894	0.004321207	0.013094299
ENSMMUG00000015329	MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]	-	1.181427131	0.001829183	0.00615958
ENSMMUG00000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]	-	1.775021374	3.16E-08	2.74E-07
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]	-	1.665752679	1.34E-08	1.23E-07
ENSMMUG00000058004		-	1.286873368	0.001474912	0.005080823
ENSMMUG00000010296	ETS transcription factor ERG [Source:VGNC Symbol;Acc:VGNC:72427]	-	2.67359813	0.018751861	0.046232767
ENSMMUG00000056593		-	3.588011286	3.45E-07	2.53E-06
ENSMMUG00000049784		-	0.708287039	0.004883253	0.014562365
ENSMMUG00000006962	VPS26 endosomal protein sorting factor C [Source:VGNC Symbol;Acc:VGNC:79850]	-	0.532057831	0.006263045	0.01804565
ENSMMUG00000017505	tetratricopeptide repeat domain 3 [Source:VGNC Symbol;Acc:VGNC:81785]	-	0.795644078	7.93E-13	1.33E-11
ENSMMUG00000062048		-	1.039759143	8.58E-18	2.42E-16
ENSMMUG00000055002	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	-	1.625137354	0.009929858	0.026875954
ENSMMUG00000015566	holocarboxylase synthetase [Source:VGNC Symbol;Acc:VGNC:73477]	-	1.019269645	0.001479267	0.005092278
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	-	1.146778376	1.34E-19	4.45E-18
ENSMMUG00000064897		-	0.860564015	0.012957492	0.033801162
ENSMMUG00000053087	mitochondrial ribosomal protein S6 [Source:NCBI gene;Acc:697852]	-	2.345735527	0.004277967	0.012976529
ENSMMUG00000065271		-	2.282880304	0.002141745	0.007051971
ENSMMUG00000054417		-	0.808670946	2.06E-05	0.000108908
ENSMMUG00000005511	SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]	-	1.855536574	6.93E-10	7.81E-09
ENSMMUG00000022702	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase [Source:VGNC Symbol;Acc:VGNC:72882]	-	1.315466903	1.03E-06	6.95E-06
ENSMMUG00000003956	interferon alpha and beta receptor subunit 2 [Source:VGNC Symbol;Acc:VGNC:81330]	-	0.566741603	1.00E-05	5.64E-05
ENSMMUG00000065005	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.156734875	8.69E-13	1.44E-11
ENSMMUG00000052780		-	1.97325524	1.65E-24	9.46E-23
ENSMMUG00000051823		-	4.003723253	0.006490425	0.018617237
ENSMMUG00000004624	synaptojanin 1 [Source:VGNC Symbol;Acc:VGNC:78071]	-	0.976032758	5.75E-07	4.07E-06
ENSMMUG00000010304	cilia and flagella associated protein 298 [Source:NCBI gene;Acc:700721]	-	0.606265679	4.66E-06	2.79E-05
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	-	1.442711239	1.42E-25	8.84E-24
ENSMMUG00000010295	URB1 ribosome biogenesis homolog [Source:VGNC Symbol;Acc:VGNC:79074]	-	2.271752402	0.000895709	0.003253336

ENSMMUG00000059677	melanocortin 2 receptor accessory protein [Source:NCBI gene;Acc:701330]	1.547848003	0.008142324	0.022688965
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	3.052352976	1.18E-11	1.67E-10
ENSMMUG00000049457		0.698043195	0.000766604	0.002834389
ENSMMUG00000019571	TIAM Rac1 associated GEF 1 [Source:VGNC Symbol;Acc:VGNC:81886]	1.733443152	0.008825983	0.02432435
ENSMMUG00000064916		2.219974179	0.008760942	0.02417205
ENSMMUG00000056363		1.899015642	4.45E-05	0.000218468
ENSMMUG00000033200	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	2.590060347	0.00472493	0.0141557
ENSMMUG00000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	2.154349392	1.02E-50	1.16E-47
ENSMMUG00000064638	Y RNA [Source:RFAM;Acc:RF00019]	2.695291358	0.001927151	0.006449933
ENSMMUG00000003023	chaperonin containing TCP1 subunit 8 [Source:VGNC Symbol;Acc:VGNC:70749]	1.565850487	0.009028252	0.024794256
ENSMMUG00000015728	listerin E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:74275]	1.029558603	0.012073431	0.031842253
ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	0.960376524	1.24E-07	9.85E-07
ENSMMUG00000018743	ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]	4.838025534	1.84E-10	2.25E-09
ENSMMUG00000052195		3.752426532	2.35E-08	2.09E-07
ENSMMUG00000060808		3.574240915	2.43E-09	2.52E-08
ENSMMUG00000020090	ATP-binding cassette transporter 13 [Source:NCBI gene;Acc:574326]	0.495951535	0.005607109	0.016388142
ENSMMUG00000060576		2.050963023	2.77E-32	3.34E-30
ENSMMUG00000057702		2.217479812	6.41E-38	1.36E-35
ENSMMUG00000060168		0.743151939	0.000705839	0.002635384
ENSMMUG00000065108		1.398017803	0.001290992	0.004522893
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	3.485589769	3.44E-14	6.68E-13
ENSMMUG00000007204	cytochrome P450 family 2 subfamily W member 1 [Source:VGNC Symbol;Acc:VGNC:81300]	1.508437374	0.001803838	0.006079755
ENSMMUG00000007206	chromosome 3 C7orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70609]	2.672019525	4.60E-05	0.000225352
ENSMMUG00000007208	G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]	2.030823174	7.47E-08	6.13E-07
ENSMMUG00000054497		1.426184792	0.00774524	0.021717133
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]	1.489382049	3.67E-18	1.07E-16
ENSMMUG00000015529	eukaryotic translation initiation factor 3 subunit B [Source:VGNC Symbol;Acc:VGNC:72193]	0.646594606	0.000176271	0.000759472
ENSMMUG00000055562	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.301594759	0.008461871	0.023445154
ENSMMUG00000022624	putative speedy protein E16 [Source:NCBI gene;Acc:718058]	1.102254974	4.46E-07	3.21E-06
ENSMMUG00000015546	chromosome 3 C7orf26 homolog [Source:VGNC Symbol;Acc:VGNC:70604]	0.884685685	0.003058098	0.009649276
ENSMMUG00000015545	zinc finger DHHC-type palmitoyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:79144]	0.583237205	0.013344727	0.034658897
ENSMMUG00000010292	diacylglycerol lipase beta [Source:VGNC Symbol;Acc:VGNC:71803]	1.768120186	0.019951653	0.048769246
ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	1.023981455	3.07E-09	3.13E-08
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	1.928630165	9.72E-19	2.97E-17
ENSMMUG00000030422	radial spoke head 10 homolog B [Source:NCBI gene;Acc:100424218]	0.460923202	0.000549693	0.002117389
ENSMMUG00000007970	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]	1.841195472	3.97E-14	7.68E-13
ENSMMUG00000015477	lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]	1.539989563	1.43E-13	2.61E-12
ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	1.596625463	8.37E-39	1.94E-36
ENSMMUG00000013276	BAR/IMD domain containing adaptor protein 2 like 1 [Source:VGNC Symbol;Acc:VGNC:70109]	0.557745731	0.009169422	0.025130758

ENSMMUG00000059873		-	0.693971778	0.019381856	0.047563491
ENSMMUG00000023318	transformation/transcription domain associated protein [Source:VGNC Symbol;Acc:VGNC:78657]		0.822016611	1.62E-19	5.27E-18
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]		3.418225303	2.73E-26	1.85E-24
ENSMMUG00000055483	transmembrane protein 225B [Source:NCBI gene;Acc:718838]		2.130412406	0.00246942	0.007991334
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]		2.550932597	1.66E-24	9.47E-23
ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]		1.974977326	5.89E-29	5.29E-27
ENSMMUG00000050824			-		
			1.835132429	0.000800846	0.002947764
ENSMMUG00000022502	tripartite motif containing 4 [Source:VGNC Symbol;Acc:VGNC:79021]		-		
ENSMMUG00000022504	alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]		0.775393695	0.005084647	0.015059978
ENSMMUG00000004021	zinc finger protein 3 [Source:VGNC Symbol;Acc:VGNC:81889]		1.092733939	4.60E-08	3.88E-07
ENSMMUG00000013450	TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]		-		
			1.428561265	0.013786336	0.035662195
ENSMMUG00000056451	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		1.0193723	0.009719616	0.026399617
ENSMMUG00000046663	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		-		
			2.359383403	0.019957068	0.048774444
ENSMMUG00000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]		-		
			1.108300907	1.82E-05	9.78E-05
ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]		-		
			0.920131929	6.01E-07	4.25E-06
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]		-		
			0.980781939	1.26E-08	1.16E-07
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]		-		
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]		1.033399641	1.58E-09	1.68E-08
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]		-		
			0.935340503	5.00E-11	6.57E-10
ENSMMUG00000004080	G protein subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:81318]		2.427017868	1.06E-16	2.67E-15
ENSMMUG00000004082	GRB10 interacting GYF protein 1 [Source:VGNC Symbol;Acc:VGNC:73158]		2.478546128	3.38E-29	3.12E-27
ENSMMUG00000022840	zonadhesin [Source:VGNC Symbol;Acc:VGNC:81797]		-		
ENSMMUG00000060459			2.194191048	0.000633222	0.002397418
ENSMMUG00000063570	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		-		
			1.339389226	9.62E-05	0.000440957
ENSMMUG00000030377	MLX interacting protein like [Source:VGNC Symbol;Acc:VGNC:81722]		-		
ENSMMUG00000011367	BUD23 rRNA methyltransferase and ribosome maturation factor [Source:VGNC Symbol;Acc:VGNC:70325]		1.142836857	8.25E-05	0.000383476
ENSMMUG00000056841			0.728077868	3.35E-06	2.05E-05
ENSMMUG00000050132			-		
			4.614056882	2.28E-05	0.000119676
ENSMMUG00000061790			-		
ENSMMUG00000056980			2.995586843	0.002750433	0.008798302
ENSMMUG00000047155	zinc finger protein 679 [Source:NCBI gene;Acc:106995568]		-3.74557861	0.000192836	0.00082509
ENSMMUG00000059100			1.349099906	0.000139819	0.000615468
ENSMMUG00000015272	chaperonin containing TCP1 subunit 6A [Source:NCBI gene;Acc:703326]		1.556699989	1.91E-08	1.72E-07
ENSMMUG00000051107			-		
ENSMMUG00000058499			0.773343204	0.010883557	0.029081649
ENSMMUG00000060184	SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]		2.816973354	1.48E-06	9.73E-06
ENSMMUG00000001308	V-set and transmembrane domain containing 2A [Source:VGNC Symbol;Acc:VGNC:79720]		3.742049873	0.000737973	0.002739459
			-		
			0.607271203	0.001339239	0.004672059
			0.465560848	0.00095166	0.003440546
			-1.4441051	0.000169681	0.000732994
			3.682979297	0.00048568	0.001894933
			4.570903562	7.29E-11	9.41E-10
			2.920351361	0.004193253	0.012750858

ENSMMUG00000056368		0.474992834	9.93E-05	0.000454654
ENSMMUG00000064560		-	-	-
ENSMMUG00000019992	growth factor receptor bound protein 10 [Source:VGNC Symbol;Acc:VGNC:73157]	0.920720612	0.001418816	0.004913242
ENSMMUG00000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	-	-	-
ENSMMUG00000049620		1.540344068	0.007975303	0.022261197
ENSMMUG00000044759		0.972826514	1.11E-11	1.57E-10
ENSMMUG00000043922	spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]	-	-	-
ENSMMUG00000016191	ATP binding cassette subfamily A member 13 [Source:VGNC Symbol;Acc:VGNC:69402]	0.881347417	0.014184142	0.036487569
ENSMMUG00000019393	tensin 3 [Source:VGNC Symbol;Acc:VGNC:79324]	-1.42114583	4.12E-12	6.23E-11
ENSMMUG00000050300		-	-	-
ENSMMUG00000052540		1.185129816	1.34E-10	1.66E-09
ENSMMUG00000000962	H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]	2.267180806	1.95E-05	0.000104155
ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]	-	-	-
ENSMMUG00000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]	2.250593761	0.006168726	0.017815426
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	-	-	-
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	1.281108624	0.000367213	0.001474621
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	-	-	-
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.518194742	4.92E-06	2.93E-05
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	-	-	-
ENSMMUG00000002421	DNA polymerase mu [Source:VGNC Symbol;Acc:VGNC:81742]	1.582805804	2.50E-06	1.57E-05
ENSMMUG00000064860	phosphoglycerate mutase 2 [Source:NCBI gene;Acc:720615]	1.409222466	0.001104802	0.003938513
ENSMMUG00000019023	cytochrome c oxidase assembly factor 1 homolog [Source:VGNC Symbol;Acc:VGNC:81290]	1.344061733	0.00306882	0.009678987
ENSMMUG00000017382	biliverdin reductase A [Source:VGNC Symbol;Acc:VGNC:70256]	1.683665126	4.72E-20	1.66E-18
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	2.033206508	1.97E-38	4.29E-36
ENSMMUG00000019015	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73217]	1.67368644	7.86E-19	2.41E-17
ENSMMUG00000057956		1.619254457	5.21E-16	1.21E-14
ENSMMUG00000035562	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.686981427	5.82E-12	8.63E-11
ENSMMUG00000024428	Y RNA [Source:RFAM;Acc:RF00019]	4.311570649	0.001930204	0.006458692
ENSMMUG00000053696	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.076184601	0.002767728	0.008845991
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	0.733971688	0.000323841	0.001317216
ENSMMUG00000022451	proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]	0.747512654	2.34E-10	2.81E-09
ENSMMUG00000052530		0.792137281	5.05E-09	4.95E-08
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]	0.65329296	6.70E-06	3.89E-05
ENSMMUG00000065307		0.566669349	0.004919767	0.014656439
ENSMMUG00000050335		-	-	-
ENSMMUG00000021186	anillin actin binding protein [Source:VGNC Symbol;Acc:VGNC:69610]	2.994305083	0.002934456	0.009320621
ENSMMUG00000010703	KIAA0895 [Source:VGNC Symbol;Acc:VGNC:73884]	1.997156736	2.87E-05	0.000147249
ENSMMUG00000010702	endonuclease/exonuclease/phosphatase family domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72085]	1.911110414	3.63E-05	0.000181996
ENSMMUG0000006980	septin 7 [Source:VGNC Symbol;Acc:VGNC:81759]	2.231967637	6.06E-17	1.56E-15
ENSMMUG0000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	1.927685705	4.93E-07	3.53E-06
ENSMMUG00000058423		2.075720079	7.69E-08	6.30E-07
		1.822288767	8.14E-09	7.73E-08
		-	-	-
		1.311702867	0.000729285	0.002709242
		3.602500268	0.000202773	0.000863869
		-	-	-
		1.064332868	0.000650092	0.002453146
		-	-	-
		1.989321367	3.11E-05	0.000158456
		-	-	-
		1.399026446	0.003254096	0.010213386
		1.646001673	0.01188291	0.031406801
		2.870745611	1.63E-30	1.64E-28
		3.434423456	3.02E-20	1.09E-18

ENSMMUG0000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]	2.134378194	1.08E-24	6.32E-23
ENSMMUG00000050858	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-1.23108546	3.74E-05	0.000186376
ENSMMUG00000011695	5'-nucleotidase, cytosolic IIIA [Source:VGNC Symbol;Acc:VGNC:75423]	-	-	-
ENSMMUG0000001625	phosphodiesterase 1C [Source:VGNC Symbol;Acc:VGNC:75911]	0.484287021	0.005177292	0.015288497
ENSMMUG00000022485	protein phosphatase 1 regulatory subunit 17 [Source:VGNC Symbol;Acc:VGNC:76270]	-	-	-
ENSMMUG00000022484	ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]	0.611731802	0.004244405	0.012895827
ENSMMUG00000055809		-	-	-
ENSMMUG00000060878		2.969777818	5.84E-06	3.43E-05
ENSMMUG00000062454		-	-	-
ENSMMUG00000039009		2.601490714	3.84E-12	5.85E-11
ENSMMUG00000012529	pleckstrin homology domain containing A8 [Source:VGNC Symbol;Acc:VGNC:81741]	0.764293976	0.013986577	0.036073205
ENSMMUG00000050459		2.112283168	8.67E-18	2.44E-16
ENSMMUG00000032973	mml-mir-550 [Source:miRBase;Acc:MI0007826]	1.976169907	1.28E-10	1.59E-09
ENSMMUG00000020184	carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]	1.714535984	2.27E-09	2.36E-08
ENSMMUG00000039317	cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]	-0.43272137	0.009315905	0.025475729
ENSMMUG00000055193		-	-	-
ENSMMUG0000000517	family with sequence similarity 126 member A [Source:VGNC Symbol;Acc:VGNC:72327]	1.169590542	0.000253547	0.001056209
ENSMMUG00000042472	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-	-
ENSMMUG00000060787		1.281012499	5.59E-05	0.000268457
ENSMMUG0000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	-	-	-
ENSMMUG0000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	1.993257055	8.00E-06	4.58E-05
ENSMMUG00000011170	histone deacetylase 9 [Source:VGNC Symbol;Acc:VGNC:73165]	-	-	-
ENSMMUG00000052574		2.651639549	0.015346659	0.038964382
ENSMMUG00000020418	diacylglycerol kinase beta [Source:VGNC Symbol;Acc:VGNC:71782]	-	-	-
ENSMMUG0000008632	myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]	1.149259324	0.005271589	0.01552068
ENSMMUG0000005159	transmembrane protein 106B [Source:VGNC Symbol;Acc:VGNC:79355]	0.7994617	0.001803009	0.006078342
ENSMMUG00000060770		1.550548756	0.020549911	0.049959866
ENSMMUG00000012694	thrombospondin type 1 domain containing 7A [Source:VGNC Symbol;Acc:VGNC:79347]	-2.61845033	1.64E-20	6.18E-19
ENSMMUG00000045513		-	-	-
ENSMMUG00000008698	cyclin dependent kinase 6 [Source:VGNC Symbol;Acc:VGNC:70983]	2.159967251	1.17E-15	2.63E-14
ENSMMUG00000019802	family with sequence similarity 133 member B [Source:NCBI gene;Acc:702054]	-	-	-
ENSMMUG00000040007	peroxisomal biogenesis factor 1 [Source:VGNC Symbol;Acc:VGNC:81736]	1.983882415	0.000384355	0.001536383
ENSMMUG00000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	-	-	-
ENSMMUG00000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	1.648216014	5.96E-20	2.08E-18
ENSMMUG00000022695	ADAM metallopeptidase domain 22 [Source:VGNC Symbol;Acc:VGNC:69483]	-	-	-
ENSMMUG00000006766	RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]	1.377601667	3.14E-07	2.31E-06
ENSMMUG00000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	-	-	-
		1.519079435	9.68E-05	0.00044338
		0.81362549	0.011581068	0.030729511
		0.940800519	8.60E-05	0.000398644
		-	-	-
		1.766476793	0.001361108	0.004740542
		2.360324855	1.01E-13	1.88E-12
		3.256583619	0.01380264	0.035698142
		2.796458742	1.74E-09	1.84E-08
		4.365781379	0.000216579	0.000916369
		2.08281431	2.40E-49	1.84E-46
		-	-	-
		1.216802258	9.97E-09	9.34E-08
		-0.59553865	0.000559275	0.002145382
		1.220821448	2.16E-06	1.38E-05
		-	-	-
		0.833063962	1.69E-06	1.10E-05

ENSMMUG0000000480	KIAA1324 like [Source:VGNC Symbol;Acc:VGNC:73882]	3.37808	0.000257985	0.001073187
ENSMMUG00000007555	semaphorin 3A [Source:VGNC Symbol;Acc:VGNC:77159]	1.945364256	0.006534235	0.018710698
ENSMMUG00000018652	hepatocyte growth factor [Source:VGNC Symbol;Acc:VGNC:73373]	0.397032484	0.001921551	0.006434095
ENSMMUG000000053516		1.818646369	1.24E-07	9.89E-07
ENSMMUG000000042946	CD36 molecule [Source:VGNC Symbol;Acc:VGNC:80857]	0.583879311	0.017560023	0.043719007
ENSMMUG000000049939		1.034446213	2.22E-13	3.94E-12
ENSMMUG00000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]	-0.97861434	1.51E-06	9.94E-06
ENSMMUG00000012427	F-box and leucine rich repeat protein 13 [Source:VGNC Symbol;Acc:VGNC:81312]	0.599732702	0.003506234	0.010880405
ENSMMUG000000054290		1.167125572	6.35E-06	3.71E-05
ENSMMUG00000012066	origin recognition complex subunit 5 [Source:VGNC Symbol;Acc:VGNC:75717]	0.458603648	0.003211979	0.010091876
ENSMMUG000000062666		0.608641489	0.00020226	0.000862177
ENSMMUG000000058302		1.030149063	0.000808051	0.002970598
ENSMMUG00000022727	lysine methyltransferase 2E [Source:VGNC Symbol;Acc:VGNC:74073]	2.587976146	0.000382628	0.001530305
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	1.534869871	2.94E-24	1.65E-22
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	1.403718595	1.11E-07	8.92E-07
ENSMMUG00000011385	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma [Source:VGNC Symbol;Acc:VGNC:75998]	0.499386505	0.000686873	0.002576208
ENSMMUG000000062092		2.856566853	0.001017043	0.003653765
ENSMMUG000000058817		2.676361201	4.35E-21	1.75E-19
ENSMMUG00000002894	dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]	1.414790416	2.41E-09	2.50E-08
ENSMMUG00000008005	forkhead box P2 [Source:VGNC Symbol;Acc:VGNC:72720]	1.933618635	0.001198219	0.004231863
ENSMMUG00000007097	testin LIM domain protein [Source:VGNC Symbol;Acc:VGNC:78383]	0.817507318	1.76E-07	1.36E-06
ENSMMUG00000011269	CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]	1.129890481	2.80E-07	2.09E-06
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]	1.504170922	5.46E-05	0.000263226
ENSMMUG000000054565		1.026338012	0.013263338	0.034477705
ENSMMUG00000015240	glutamate metabotropic receptor 8 [Source:VGNC Symbol;Acc:VGNC:73292]	0.640859453	0.003368878	0.010511351
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]	1.404243581	6.34E-14	1.21E-12
ENSMMUG000000046381	ADP ribosylation factor 5 [Source:VGNC Symbol;Acc:VGNC:80792]	0.420579304	0.012723952	0.033286426
ENSMMUG00000015432	staphylococcal nuclease and tudor domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77798]	0.742794999	0.000231475	0.000974389
ENSMMUG00000007250	RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]	1.228234409	1.22E-05	6.77E-05
ENSMMUG000000037001	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	2.457482579	0.003005459	0.009503402
ENSMMUG00000009625	coiled-coil domain containing 136 [Source:VGNC Symbol;Acc:VGNC:70836]	0.307714241	0.004552494	0.013709919
ENSMMUG00000018478	interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]	1.288037399	4.23E-06	2.55E-05
ENSMMUG00000004311	transportin 3 [Source:VGNC Symbol;Acc:VGNC:79063]	0.833039456	0.020403976	0.049678371
ENSMMUG000000053821		2.754647652	0.005817234	0.016922241

ENSMMUG00000012110	smoothened, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	1.778828703	2.26E-13	4.00E-12
ENSMMUG00000019358	adenosylhomocysteinase like 2 [Source:VGNC Symbol;Acc:VGNC:80771]	1.956970048	0.014711105	0.037650676
ENSMMUG00000019359	striatin interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:78194]	-0.34420391	0.0024073	0.007820429
ENSMMUG00000041919	nuclear respiratory factor 1 [Source:VGNC Symbol;Acc:VGNC:81731]	1.041623068	2.07E-09	2.17E-08
ENSMMUG00000017542	ubiquitin conjugating enzyme E2 H [Source:VGNC Symbol;Acc:VGNC:78696]	0.608994336	8.07E-05	0.000375449
ENSMMUG00000006155	zinc finger C3HC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79827]	1.662801794	0.000482791	0.001884156
ENSMMUG000000061007		-1.16358381	0.003709854	0.011422106
ENSMMUG00000010060	serine rich single-pass membrane protein 1 [Source:VGNC Symbol;Acc:VGNC:78014]	1.247678638	0.000918719	0.003327132
ENSMMUG00000009494	carboxypeptidase A5 [Source:VGNC Symbol;Acc:VGNC:71410]	1.08911495	6.64E-06	3.86E-05
ENSMMUG00000009495	carboxypeptidase A1 [Source:VGNC Symbol;Acc:VGNC:71455]	0.869301193	0.002450673	0.00794393
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	3.356894211	4.42E-28	3.61E-26
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	3.308782299	1.62E-27	1.30E-25
ENSMMUG00000001671	coiled-coil-helix-coiled-coil-helix domain containing 3 [Source:VGNC Symbol;Acc:VGNC:80860]	1.317209823	0.000526406	0.002034559
ENSMMUG00000000916	solute carrier family 35 member B4 [Source:VGNC Symbol;Acc:VGNC:77528]	1.373153921	0.005214642	0.015365217
ENSMMUG00000013098	aldo-keto reductase family 1 member B10 [Source:NCBI gene;Acc:713150]	1.281255017	0.008946209	0.024600832
ENSMMUG00000004598	bisphosphoglycerate mutase [Source:VGNC Symbol;Acc:VGNC:70275]	4.134664058	4.68E-05	0.000229381
ENSMMUG000000037485		5.054477537	4.61E-07	3.31E-06
ENSMMUG000000054821		3.024358707	0.000107145	0.000486068
ENSMMUG00000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	1.159070239	2.19E-13	3.89E-12
ENSMMUG000000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.203970241	2.99E-14	5.85E-13
ENSMMUG000000062419		2.341995368	0.00040881	0.001625377
ENSMMUG00000002318	stimulated by retinoic acid 8 [Source:VGNC Symbol;Acc:VGNC:78250]	1.042229506	0.008200365	0.02281212
ENSMMUG00000016181	CCR4-NOT transcription complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:71389]	0.642137416	7.38E-06	4.26E-05
ENSMMUG00000016384	nucleoporin 205 [Source:VGNC Symbol;Acc:VGNC:75432]	0.746865111	0.001189256	0.004205212
ENSMMUG00000002995	tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]	1.041342867	1.16E-10	1.46E-09
ENSMMUG000000050262		1.434416881	0.002160465	0.007099424
ENSMMUG00000021676	SVOP like [Source:VGNC Symbol;Acc:VGNC:78224]	0.419497469	0.005401097	0.015861042
ENSMMUG000000052458		0.592786731	0.000114136	0.000513077
ENSMMUG00000006547	ATPase H+ transporting V0 subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]	3.490161642	6.62E-05	0.00031345
ENSMMUG000000059192	transmembrane protein 213 [Source:NCBI gene;Acc:710580]	3.105977567	0.016724643	0.042009902
ENSMMUG00000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	3.808575385	8.46E-09	8.01E-08
ENSMMUG00000006770	putative RNA-binding protein Luc7-like 2 [Source:NCBI gene;Acc:711104]	0.713947039	0.01096803	0.029286259
ENSMMUG000000052228	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.463484838	2.80E-06	1.74E-05
ENSMMUG00000004224	poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]	1.008740541	1.45E-11	2.04E-10
ENSMMUG000000056175		0.836283136	1.82E-07	1.40E-06
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	1.233416594	2.52E-21	1.03E-19
ENSMMUG00000010420	makorin ring finger protein 1 [Source:VGNC Symbol;Acc:VGNC:81476]	0.885975338	0.000105419	0.000478825

ENSMMUG00000042299	DENN domain containing 2A [Source:VGNC Symbol;Acc:VGNC:81302]	-	1.738584765	0.009106805	0.024972988
ENSMMUG00000015282	aarF domain containing kinase 2 [Source:VGNC Symbol;Acc:VGNC:69473]	-	0.580399265	9.31E-05	0.00042791
ENSMMUG00000015284	NADH:ubiquinone oxidoreductase subunit B2 [Source:VGNC Symbol;Acc:VGNC:75156]	-	0.726121014	8.92E-10	9.83E-09
ENSMMUG00000042793	B-Raf proto-oncogene, serine/threonine kinase [Source:NCBI gene;Acc:693554]	-	0.618994913	0.000261517	0.001086052
ENSMMUG00000060893		-	2.316700084	1.45E-07	1.15E-06
ENSMMUG00000064529		-	1.279349189	2.86E-05	0.000146542
ENSMMUG00000055369		-	0.495477077	0.007389674	0.020798798
ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	-	1.56538975	3.49E-22	1.58E-20
ENSMMUG00000042443	olfactory receptor 9A4 [Source:NCBI gene;Acc:695321]	-	2.110508517	0.001141513	0.004056706
ENSMMUG00000055710	taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]	-	2.663952004	5.70E-12	8.46E-11
ENSMMUG00000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	-	3.267990782	7.65E-43	3.07E-40
ENSMMUG00000019937	maltase-glucoamylase 2 (putative) [Source:VGNC Symbol;Acc:VGNC:81720]	-	2.449734132	1.41E-05	7.73E-05
ENSMMUG00000056515		-	1.186562485	0.000539738	0.002081747
ENSMMUG00000049575	T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]	-	1.566752373	1.32E-07	1.05E-06
ENSMMUG00000051385		-	2.443899031	1.26E-09	1.36E-08
ENSMMUG00000049767		-	3.158942937	0.0011937	0.004217911
ENSMMUG00000048246		-	3.312225797	0.00024722	0.001033337
ENSMMUG00000057494	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]	-	2.713401106	2.02E-09	2.12E-08
ENSMMUG00000055612	T cell receptor beta variable 12-5 [Source:HGNC Symbol;Acc:HGNC:12187]	-	3.176525627	0.01500055	0.038262497
ENSMMUG00000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	-	2.855975342	3.60E-26	2.42E-24
ENSMMUG00000016286	protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]	-	1.969104442	1.03E-06	6.99E-06
ENSMMUG00000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	-	2.704892791	1.03E-27	8.31E-26
ENSMMUG00000052682		-	2.904836671	3.31E-12	5.11E-11
ENSMMUG00000059019		-	3.090777764	1.02E-19	3.44E-18
ENSMMUG00000058459		-	3.234198744	0.00013969	0.000615085
ENSMMUG00000012628	glutathione S-transferase kappa 1 [Source:VGNC Symbol;Acc:VGNC:73180]	-	0.315620176	0.009849266	0.026707736
ENSMMUG00000043809	caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]	-	1.186255553	1.65E-11	2.29E-10
ENSMMUG00000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	-	2.203436357	4.29E-32	5.04E-30
ENSMMUG00000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	-	2.177915194	6.03E-43	2.48E-40
ENSMMUG00000058370	taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]	-	3.483128502	8.51E-05	0.000394778
ENSMMUG00000042798		-	1.561522232	1.63E-11	2.27E-10
ENSMMUG00000063823	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.810280928	0.002917837	0.00927777
ENSMMUG00000005136	TRPM8 channel associated factor 1 [Source:VGNC Symbol;Acc:VGNC:79346]	-	0.794663596	3.42E-06	2.09E-05

ENSMMUG00000049419		-	1.747593014	0.010606244	0.028432862
ENSMMUG00000019856	olfactory receptor 2F2-like [Source:NCBI gene;Acc:100428924]	-	1.271811591	1.38E-05	7.56E-05
ENSMMUG00000059211		-	1.34307846	0.01956055	0.047915915
ENSMMUG00000017541	cullin 1 [Source:VGNC Symbol;Acc:VGNC:71565]	-	3.656301707	0.00565168	0.016495653
ENSMMUG00000057973		-	1.808366755	2.25E-05	0.000118018
ENSMMUG00000042048	protein disulfide isomerase family A member 4 [Source:NCBI gene;Acc:709716]	-	0.909555239	0.001508945	0.005186014
ENSMMUG00000018549	zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]	-	2.678115881	1.76E-07	1.36E-06
ENSMMUG00000002497	zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]	-	1.208154958	2.49E-06	1.57E-05
ENSMMUG00000060626	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.453159754	0.000464801	0.001822579
ENSMMUG00000051020	zinc finger protein 467 [Source:NCBI gene;Acc:712106]	-	-1.70731275	2.50E-08	2.20E-07
ENSMMUG00000048892	SCO-spondin [Source:VGNC Symbol;Acc:VGNC:81765]	-	1.247892943	2.08E-09	2.18E-08
ENSMMUG00000062384		-	1.090244162	0.013851637	0.035812375
ENSMMUG00000022633	replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]	-	2.702410994	4.47E-21	1.79E-19
ENSMMUG00000022636	GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]	-	1.538682991	1.79E-06	1.16E-05
ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	-	2.427431855	1.69E-34	2.79E-32
ENSMMUG00000052830		-	2.638059992	4.24E-18	1.23E-16
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	-	1.846957108	8.61E-13	1.43E-11
ENSMMUG00000017008	GTPase, IMAP family member 2 [Source:VGNC Symbol;Acc:VGNC:72980]	-	-3.62833975	5.15E-06	3.05E-05
ENSMMUG00000049295	GTPase, IMAP family member 5 [Source:NCBI gene;Acc:713835]	-	1.458103467	2.14E-07	1.62E-06
ENSMMUG00000008596	transmembrane protein 176B [Source:VGNC Symbol;Acc:VGNC:79817]	-	0.979618184	0.001805152	0.0060828
ENSMMUG00000020435	amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]	-	1.782190646	8.26E-11	1.05E-09
ENSMMUG00000020436	potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]	-	1.499463808	3.66E-08	3.12E-07
ENSMMUG00000054070	IQ motif containing with AAA domain 1 like [Source:NCBI gene;Acc:714415]	-	3.265634292	0.006204926	0.017902539
ENSMMUG00000006682	chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]	-	2.052843282	3.20E-05	0.000162339
ENSMMUG00000038898	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.748247474	0.00017475	0.000753354
ENSMMUG00000012238	polypeptide N-acetylgalactosaminyltransferase 11 [Source:VGNC Symbol;Acc:VGNC:72749]	-	-1.02991095	0.000309848	0.001264111
ENSMMUG00000007212	lysine methyltransferase 2C [Source:VGNC Symbol;Acc:VGNC:74043]	-	0.54053632	0.002461731	0.007972806
ENSMMUG00000062591	insulin induced gene 1 [Source:NCBI gene;Acc:718513]	-	-0.74833205	0.000343123	0.001386894
ENSMMUG00000007770	canopy FGF signaling regulator 1 [Source:VGNC Symbol;Acc:VGNC:71363]	-	1.751570351	0.011434734	0.030413954
ENSMMUG00000054296		-	1.990145086	0.009081793	0.024918221
ENSMMUG00000039033	nucleolar protein with MIF4G domain 1 [Source:VGNC Symbol;Acc:VGNC:81729]	-	3.272591741	4.13E-05	0.000203899
ENSMMUG00000008733	ubiquitin protein ligase E3C [Source:VGNC Symbol;Acc:VGNC:79049]	-	1.454117574	1.68E-10	2.06E-09
ENSMMUG00000009611	vasoactive intestinal peptide receptor 2 [Source:VGNC Symbol;Acc:VGNC:78772]	-	0.780981845	0.002627904	0.008445207

ENSMMUG0000000752	programmed cell death 6 [Source:NCBI gene;Acc:723043]	0.366255032	0.016957187	0.0424789
ENSMMUG00000003791	centrosomal protein 72 [Source:VGNC Symbol;Acc:VGNC:71099]	1.608218031	0.001937784	0.006476092
ENSMMUG00000052291		1.970930048	6.71E-05	0.000317361
ENSMMUG00000061096	tubulin polymerization promoting protein [Source:NCBI gene;Acc:708834]	1.604523753	0.000899597	0.003264259
ENSMMUG00000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	0.791930163	1.90E-09	2.00E-08
ENSMMUG00000005198	solute carrier family 6 member 3 [Source:VGNC Symbol;Acc:VGNC:77619]	0.580416726	0.007897878	0.022078329
ENSMMUG00000019205	ADAM metallopeptidase with thrombospondin type 1 motif 16 [Source:VGNC Symbol;Acc:VGNC:69439]	1.220665745	0.001050144	0.003759025
ENSMMUG00000061176		0.764953282	2.04E-07	1.56E-06
ENSMMUG00000002561	NOP2/Sun RNA methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75466]	2.394938139	0.001584128	0.005400602
ENSMMUG00000018745	chromosome 6 C5orf49 homolog [Source:VGNC Symbol;Acc:VGNC:70646]	1.254812037	0.014127231	0.036366402
ENSMMUG00000018746	FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]	1.995336967	9.19E-15	1.93E-13
ENSMMUG00000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]	1.915497704	2.64E-13	4.64E-12
ENSMMUG00000061922		0.470057465	1.98E-07	1.52E-06
ENSMMUG00000001130	ankyrin repeat domain 33B [Source:VGNC Symbol;Acc:VGNC:69758]	-1.67068306	0.008547942	0.023654782
ENSMMUG00000021942	ANKH inorganic pyrophosphate transport regulator [Source:VGNC Symbol;Acc:VGNC:69612]	-0.92024564	3.03E-06	1.87E-05
ENSMMUG00000065128	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.963742945	1.52E-05	8.29E-05
ENSMMUG00000059412		0.755628637	0.001152581	0.004092118
ENSMMUG00000062083		2.370262923	3.53E-09	3.56E-08
ENSMMUG00000059036		2.588663737	1.29E-05	7.14E-05
ENSMMUG00000064602		1.945350987	0.00034417	0.001390746
ENSMMUG00000059710		1.440194672	0.000873946	0.003184428
ENSMMUG00000049919		1.575557745	0.000867183	0.003161336
ENSMMUG00000060891	histone H3.Y [Source:NCBI gene;Acc:718280]	1.918310016	0.00010832	0.0004902
ENSMMUG00000013954	PDZ domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75829]	-0.39448173	0.005860063	0.017026789
ENSMMUG00000055028		2.165297262	0.004099459	0.012504109
ENSMMUG00000009574	solute carrier family 45 member 2 [Source:VGNC Symbol;Acc:VGNC:82240]	0.681959449	0.01517256	0.038628166
ENSMMUG00000018739	sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]	2.773174711	0.000364083	0.001463635
ENSMMUG00000015225	S-phase kinase associated protein 2 [Source:VGNC Symbol;Acc:VGNC:77376]	2.430165252	0.015734791	0.039833895
ENSMMUG00000006202	solute carrier family 1 member 3 [Source:VGNC Symbol;Acc:VGNC:77411]	0.537148334	5.93E-07	4.19E-06
ENSMMUG00000052836		0.410043405	0.012477482	0.032729158
ENSMMUG00000056658	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.714718985	0.01276867	0.033390827
ENSMMUG00000052974		0.570345599	0.011692549	0.030982949
ENSMMUG00000017163	EGF like, fibronectin type III and laminin G domains [Source:VGNC Symbol;Acc:VGNC:72122]	0.803128188	1.10E-06	7.44E-06
ENSMMUG00000064324		2.755070488	0.000667196	0.002508115
ENSMMUG00000004774	maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]	2.114313639	1.58E-07	1.23E-06
ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]	2.370124905	1.18E-10	1.48E-09
ENSMMUG00000055022	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.694694138	0.004632213	0.013911647

ENSMMUG00000047162	fibroblast growth factor 10 [Source:VGNC Symbol;Acc:VGNC:84378]	-1.48624633	1.34E-08	1.23E-07
ENSMMUG00000059786	hyperpolarization activated cyclic nucleotide gated potassium channel 1 [Source:NCBI gene;Acc:704286]	2.760209266	0.004729244	0.014165763
ENSMMUG00000016149	embigin [Source:VGNC Symbol;Acc:VGNC:72144]	2.200883157	0.008890059	0.024469112
ENSMMUG00000057857		1.253862376	0.008341424	0.02318278
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]	2.096111526	2.14E-26	1.49E-24
ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]	2.311624608	4.88E-23	2.42E-21
ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]	1.908745404	5.11E-10	5.86E-09
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	3.499974153	2.12E-12	3.35E-11
ENSMMUG00000061973		-3.15607049	1.12E-35	2.00E-33
ENSMMUG00000010466	solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]	1.561783379	1.18E-05	6.55E-05
ENSMMUG00000049885		1.226718409	8.97E-06	5.10E-05
ENSMMUG00000051661		1.574505279	4.76E-06	2.84E-05
ENSMMUG00000005181	RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]	-1.31600016	0.000551032	0.002120345
ENSMMUG00000018379	DEP domain containing 1B [Source:VGNC Symbol;Acc:VGNC:71705]	0.833924209	0.00073521	0.002729887
ENSMMUG00000021812	ERCC excision repair 8, CSA ubiquitin ligase complex subunit [Source:VGNC Symbol;Acc:VGNC:72425]	0.882772183	5.28E-13	9.04E-12
ENSMMUG00000054780		0.665600227	0.002456474	0.007960995
ENSMMUG00000060505		1.211699525	0.000192272	0.000822915
ENSMMUG00000021131	regulator of G protein signaling 7 binding protein [Source:VGNC Symbol;Acc:VGNC:76808]	1.473749648	0.004188131	0.012739252
ENSMMUG00000015041	CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]	3.444750767	5.64E-08	4.71E-07
ENSMMUG00000051169		2.210462582	0.000287849	0.001179551
ENSMMUG00000016514	tripartite motif containing 23 [Source:VGNC Symbol;Acc:VGNC:79962]	0.432186088	2.55E-05	0.000132281
ENSMMUG00000053925	shieldin complex subunit 3 [Source:NCBI gene;Acc:114678803]	0.54672531	0.005471958	0.01604055
ENSMMUG00000016519	trafficking protein particle complex 13 [Source:VGNC Symbol;Acc:VGNC:79549]	0.402167866	0.001385259	0.004813404
ENSMMUG00000016521	small glutamine rich tetratricopeptide repeat containing beta [Source:VGNC Symbol;Acc:VGNC:77296]	0.479491416	2.35E-06	1.48E-05
ENSMMUG00000016522	neurolysin [Source:VGNC Symbol;Acc:VGNC:75183]	0.824646393	2.25E-10	2.72E-09
ENSMMUG00000038355		3.128494506	0.006462574	0.018552066
ENSMMUG00000049935		1.639090982	3.44E-12	5.27E-11
ENSMMUG00000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]	1.57916914	1.10E-32	1.41E-30
ENSMMUG00000006217	general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]	2.527204046	1.65E-09	1.75E-08
ENSMMUG00000054237	Y RNA [Source:RFAM;Acc:RF00019]	1.440319921	0.004636044	0.013919931
ENSMMUG00000059671		1.341482624	1.61E-16	3.96E-15
ENSMMUG00000019996	ectodermal-neural cortex 1 [Source:VGNC Symbol;Acc:VGNC:72217]	3.391831727	0.00343008	0.010670882
ENSMMUG00000064344	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-3.51967974	0.000725704	0.002697291
ENSMMUG00000011061	ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]	1.228831444	1.30E-25	8.20E-24
ENSMMUG00000006139	3-hydroxy-3-methylglutaryl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:73484]	0.744488467	3.16E-08	2.74E-07
ENSMMUG00000006141	ceramide transporter 1 [Source:VGNC Symbol;Acc:VGNC:71298]	0.797993048	5.40E-07	3.83E-06
ENSMMUG00000019887	synaptic vesicle glycoprotein 2C [Source:VGNC Symbol;Acc:VGNC:78252]	0.887327339	3.72E-05	0.000185746

ENSMMUG00000022982	IQ motif containing GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:73756]	1.314685613	0.001937633	0.006476092
ENSMMUG00000021357	zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]	1.564244743	0.004445951	0.013412012
ENSMMUG00000006792	arylsulfatase B [Source:VGNC Symbol;Acc:VGNC:70023]	1.049911312	0.012861554	0.033592259
ENSMMUG00000006796	betaine--homocysteine S-methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70248]	1.374199433	3.56E-05	0.000178713
ENSMMUG00000046325	junction mediating and regulatory protein, p53 cofactor [Source:VGNC Symbol;Acc:VGNC:84397]	3.018649378	0.002140506	0.007049456
ENSMMUG00000020731	terminal nucleotidyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:79637]	1.976871639	0.005649156	0.016491533
ENSMMUG00000036820	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	1.510182611	9.39E-06	5.30E-05
ENSMMUG00000051429		-2.93263792	2.36E-07	1.78E-06
ENSMMUG00000018283	dihydrofolate reductase [Source:NCBI gene;Acc:711268]	1.978362159	0.00034279	0.001386125
ENSMMUG00000018284	mutS homolog 3 [Source:VGNC Symbol;Acc:VGNC:74932]	0.912704304	2.07E-05	0.000109405
ENSMMUG00000054808	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.638311763	0.012906996	0.033705009
ENSMMUG00000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	-1.80164829	1.65E-07	1.28E-06
ENSMMUG00000006932	creatine kinase, mitochondrial 2 [Source:VGNC Symbol;Acc:VGNC:71231]	1.129515893	0.005294953	0.015586374
ENSMMUG00000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	1.411892454	2.51E-14	4.96E-13
ENSMMUG00000003578	ribosomal protein S23 [Source:NCBI gene;Acc:711914]	1.620912308	0.013992502	0.036077569
ENSMMUG00000046560	transmembrane protein 167A [Source:VGNC Symbol;Acc:VGNC:84513]	0.972191629	0.000142571	0.000626654
ENSMMUG00000035653	small Cajal body-specific RNA 18 [Source:HGNC Symbol;Acc:HGNC:32559]	2.329167947	0.013928659	0.035969568
ENSMMUG00000064265	X-ray repair cross complementing 4 [Source:NCBI gene;Acc:712291]	0.559842964	0.010278997	0.027715915
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	3.505384997	4.04E-69	1.20E-65
ENSMMUG00000061282	hyaluronan and proteoglycan link protein 1 [Source:NCBI gene;Acc:712501]	4.499460004	0.00013173	0.000585072
ENSMMUG00000009319	transmembrane protein 161B [Source:VGNC Symbol;Acc:VGNC:84508]	1.363082563	1.97E-05	0.000105026
ENSMMUG00000019836	myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]	1.514848511	4.10E-08	3.48E-07
ENSMMUG00000055392		1.498836401	2.78E-07	2.08E-06
ENSMMUG00000056790		2.781680955	0.00028231	0.001160061
ENSMMUG00000018972	RNA polymerase III subunit G [Source:VGNC Symbol;Acc:VGNC:84480]	1.719861406	1.81E-05	9.71E-05
ENSMMUG00000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	2.205599995	2.49E-42	9.01E-40
ENSMMUG00000055271		1.960198354	3.42E-09	3.46E-08
ENSMMUG00000018976	adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]	1.608149998	1.15E-06	7.74E-06
ENSMMUG00000001722	family with sequence similarity 172 member A [Source:VGNC Symbol;Acc:VGNC:72348]	0.519128053	0.013735464	0.035543734
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	1.759847719	1.01E-08	9.43E-08
ENSMMUG00000010632	family with sequence similarity 81 member B [Source:VGNC Symbol;Acc:VGNC:72365]	2.743561889	0.002209183	0.00723998
ENSMMUG00000001209	arylsulfatase family member K [Source:VGNC Symbol;Acc:VGNC:84280]	1.468797506	2.18E-06	1.39E-05
ENSMMUG00000001211	G protein-coupled receptor 150 [Source:VGNC Symbol;Acc:VGNC:72988]	1.196016396	0.00582832	0.016951164

ENSMMUG0000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	-	0.956975108	9.32E-07	6.36E-06
ENSMMUG0000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]	-	0.993775994	6.62E-05	0.00031345
ENSMMUG00000032858	mml-mir-583 [Source:miRBase;Acc:MI0007850]	-	1.40935926	0.000432387	0.001708581
ENSMMUG0000002063	endoplasmic reticulum aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:72066]	-	0.978532087	2.01E-11	2.77E-10
ENSMMUG00000011043	endoplasmic reticulum aminopeptidase 2 [Source:VGNC Symbol;Acc:VGNC:72141]	-	0.951507337	2.14E-20	7.83E-19
ENSMMUG00000065221		-	0.782052356	2.58E-07	1.94E-06
ENSMMUG00000018542	leucyl and cystinyl aminopeptidase [Source:VGNC Symbol;Acc:VGNC:74438]	-	0.774661942	1.02E-06	6.90E-06
ENSMMUG00000000307	RIO kinase 2 [Source:VGNC Symbol;Acc:VGNC:76774]	-	0.506860337	2.15E-05	0.000113379
ENSMMUG00000054789	family with sequence similarity 174 member A [Source:NCBI gene;Acc:702300]	-	0.728821034	8.54E-06	4.86E-05
ENSMMUG00000007773	solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]	-	3.214044707	6.59E-10	7.44E-09
ENSMMUG00000007844	peptidylglycine alpha-amidating monooxygenase [Source:VGNC Symbol;Acc:VGNC:75752]	-	0.667547419	0.014795298	0.037823524
ENSMMUG00000007786	gypsy retrotransposon integrase 1 [Source:VGNC Symbol;Acc:VGNC:73015]	-	0.298831963	0.014023619	0.036143598
ENSMMUG00000007787	diphosphoinositol pentakisphosphate kinase 2 [Source:VGNC Symbol;Acc:VGNC:76128]	-	-0.7135779	0.001314029	0.004594918
ENSMMUG00000059227		-	3.44757698	0.016028572	0.040467097
ENSMMUG00000054898		-	1.877786522	0.002684877	0.008609021
ENSMMUG00000013183	F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]	-	1.170150777	2.47E-10	2.97E-09
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]	-	-0.89024199	1.75E-06	1.13E-05
ENSMMUG00000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]	-	1.512475833	3.79E-11	5.06E-10
ENSMMUG00000042638		-	2.907870979	0.007772034	0.021775791
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	-	3.126623692	7.43E-24	4.02E-22
ENSMMUG00000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	-	2.710404229	1.67E-24	9.49E-23
ENSMMUG00000002768	neuronal regeneration related protein [Source:VGNC Symbol;Acc:VGNC:84454]	-	3.028937863	0.002428359	0.007879469
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	-	-1.36015545	1.26E-09	1.36E-08
ENSMMUG00000055720		-	1.119999588	0.019392548	0.047567233
ENSMMUG00000056959		-	0.590438909	0.00021578	0.000913767
ENSMMUG00000000330	APC regulator of WNT signaling pathway [Source:VGNC Symbol;Acc:VGNC:84282]	-	0.55125838	0.008394455	0.0232996
ENSMMUG00000042951	signal recognition particle 19 [Source:NCBI gene;Acc:693829]	-	1.122361118	3.68E-08	3.14E-07
ENSMMUG00000020488	receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]	-	1.04731898	1.83E-15	4.06E-14
ENSMMUG00000011130	tripartite motif containing 36 [Source:VGNC Symbol;Acc:VGNC:79023]	-	0.272274394	0.020242869	0.049367168
ENSMMUG00000005018	protein geranylgeranyltransferase type I subunit beta [Source:VGNC Symbol;Acc:VGNC:75965]	-	3.047508443	0.001565572	0.00535038
ENSMMUG00000015114	toll like receptor adaptor molecule 2 [Source:NCBI gene;Acc:100426353]	-	0.546068171	2.17E-10	2.63E-09
ENSMMUG00000061758	cysteine dioxygenase type 1 [Source:NCBI gene;Acc:696387]	-	0.473884409	0.000645117	0.002436852
ENSMMUG00000060812	autophagy related 12 [Source:NCBI gene;Acc:696765]	-	1.344954945	1.96E-12	3.11E-11
ENSMMUG00000015288	adaptor related protein complex 3 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:69867]	-	1.224493028	1.27E-06	8.48E-06
ENSMMUG00000022192		-	1.108213369	0.000252777	0.001053888
ENSMMUG00000008738	COMM domain containing 10 [Source:VGNC Symbol;Acc:VGNC:71374]	-	1.565143439	3.26E-06	2.01E-05
ENSMMUG00000037127	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.206624068	0.005945309	0.017244352

ENSMMUG00000018640	Dmx like 1 [Source:VGNC Symbol;Acc:VGNC:71935]	-	1.021632759	0.002555232	0.008239636
ENSMMUG00000063474		-	0.759802703	7.61E-07	5.28E-06
ENSMMUG00000059145		-	1.248857598	0.001851202	0.006223832
ENSMMUG00000063816	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.162171403	0.005128019	0.015161189
ENSMMUG00000018764		-	0.863169717	0.008585862	0.023737609
ENSMMUG00000063354		-	1.194229261	0.004942532	0.014715469
ENSMMUG00000053794		-	-1.5042525	1.22E-09	1.32E-08
ENSMMUG00000021006	zinc finger protein 474 [Source:VGNC Symbol;Acc:VGNC:81617]	-	1.230557235	0.000441537	0.001737789
ENSMMUG00000046428		-	0.774099407	0.01297366	0.033831437
ENSMMUG00000023598	sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]	-	1.949648208	0.001343901	0.004686116
ENSMMUG00000066646	casein kinase 1 gamma 3 [Source:VGNC Symbol;Acc:VGNC:81384]	-	0.542405597	0.010167779	0.027450968
ENSMMUG00000016683	phosphorylated adaptor for RNA export [Source:NCBI gene;Acc:702980]	-	1.001083563	0.018213767	0.045101047
ENSMMUG00000021547	membrane associated ring-CH-type finger 3 [Source:VGNC Symbol;Acc:VGNC:74605]	-	2.258197542	0.006133593	0.01772777
ENSMMUG00000037806	chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]	-	1.707114642	0.004871883	0.014543081
ENSMMUG00000018827	multiple EGF like domains 10 [Source:VGNC Symbol;Acc:VGNC:74617]	-	4.233937945	0.001583645	0.005400195
ENSMMUG00000063396		-	-4.35040039	0.008380505	0.023266822
ENSMMUG00000011214	solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]	-	2.007415239	8.47E-13	1.41E-11
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	-	1.625625699	2.80E-10	3.33E-09
ENSMMUG00000003312	chondroitin sulfate synthase 3 [Source:VGNC Symbol;Acc:VGNC:71089]	-	2.020913725	0.007226785	0.020410059
ENSMMUG00000058082		-	0.380293496	0.001634127	0.005555912
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	-	0.937602406	1.17E-10	1.47E-09
ENSMMUG00000051989	interleukin 5 [Source:NCBI gene;Acc:710622]	-	3.247860237	5.43E-05	0.000262176
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	-	1.358581968	8.36E-09	7.92E-08
ENSMMUG00000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]	-	1.465184296	3.86E-05	0.000191667
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	-	1.853782308	2.19E-26	1.52E-24
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	-	1.705776481	7.48E-08	6.14E-07
ENSMMUG00000010309	septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]	-	1.748127948	1.40E-05	7.68E-05
ENSMMUG00000039781	so sondowah ankyrin repeat domain family member A [Source:VGNC Symbol;Acc:VGNC:84498]	-	1.225356557	0.000191784	0.000821299
ENSMMUG00000059080		-	1.619621042	6.69E-06	3.89E-05
ENSMMUG00000015640	AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]	-	1.479023119	9.07E-08	7.35E-07
ENSMMUG00000026029	Y RNA [Source:RFAM;Acc:RF00019]	-	1.307250673	0.004757594	0.014247802
ENSMMUG00000052685		-	0.563993148	0.006112899	0.017674848
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	-	3.026084455	6.08E-52	7.51E-49
ENSMMUG00000016641	ubiquitin conjugating enzyme E2 B [Source:VGNC Symbol;Acc:VGNC:78692]	-	0.874021888	0.012085554	0.031868559

ENSMMUG00000053384		-	2.527602802	9.39E-48	6.05E-45
ENSMMUG00000058096	CDKN2A interacting protein N-terminal like [Source:NCBI gene;Acc:710774]		1.174682276	0.002113094	0.006977773
ENSMMUG00000004417	secretion associated Ras related GTPase 1B [Source:VGNC Symbol;Acc:VGNC:76970]		1.074814673	1.34E-13	2.45E-12
ENSMMUG00000012463	DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]		1.591866498	1.18E-12	1.93E-11
ENSMMUG00000054798			0.730976622	0.002974264	0.009426871
ENSMMUG00000060605			1.055217699	3.85E-09	3.85E-08
ENSMMUG00000016357	polycystin 2 like 2, transient receptor potential cation channel [Source:VGNC Symbol;Acc:VGNC:76009]		2.090785352	8.99E-05	0.000414254
ENSMMUG00000008009	family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]		1.985934546	3.11E-10	3.67E-09
ENSMMUG00000001507	bromodomain containing 8 [Source:VGNC Symbol;Acc:VGNC:70350]		-1.97737799	0.017363454	0.04328459
ENSMMUG00000009025	cell division cycle 25C [Source:VGNC Symbol;Acc:VGNC:70796]		0.351062122	0.005205237	0.015343604
ENSMMUG00000005871	eukaryotic translation termination factor 1 [Source:VGNC Symbol;Acc:VGNC:84370]		0.561829181	0.007777581	0.021787216
ENSMMUG00000017985	catenin alpha 1 [Source:VGNC Symbol;Acc:VGNC:84291]		0.783663953	9.43E-08	7.62E-07
ENSMMUG00000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]		0.789375354	3.61E-11	4.83E-10
ENSMMUG00000010301	neuregulin 2 [Source:VGNC Symbol;Acc:VGNC:81487]		1.00294627	0.01684026	0.04225737
ENSMMUG00000028372	Y RNA [Source:RFAM;Acc:RF00019]		2.764437781	0.000298516	0.001220231
ENSMMUG00000019582	ankyrin repeat and KH domain-containing protein 1 [Source:NCBI gene;Acc:698045]		0.574581905	2.24E-05	0.00011756
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]		2.764009555	2.03E-59	5.01E-56
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]		2.620058528	5.41E-30	5.25E-28
ENSMMUG00000062326			2.720177225	1.19E-30	1.21E-28
ENSMMUG00000024537			3.500097511	6.03E-09	5.85E-08
ENSMMUG00000010007	CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]		2.971633883	7.21E-17	1.83E-15
ENSMMUG00000060632			2.62271541	2.81E-09	2.88E-08
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]		2.17662103	3.16E-39	7.80E-37
ENSMMUG00000056796	NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]		2.753004233	1.16E-07	9.29E-07
ENSMMUG00000010008	IK cytokine [Source:VGNC Symbol;Acc:VGNC:73703]		0.592810461	0.008448955	0.023419593
ENSMMUG00000004481	histidyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84385]		0.753918388	0.018064329	0.044798328
ENSMMUG00000004483	histidyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73346]		0.717697771	7.02E-05	0.000330797
ENSMMUG00000014571	protocadherin alpha-C2 [Source:NCBI gene;Acc:698874]		0.901115734	1.31E-15	2.93E-14
ENSMMUG00000008710	protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]		1.190112607	0.001090471	0.003891165
ENSMMUG00000006287	DAP3 binding cell death enhancer 1 [Source:VGNC Symbol;Acc:VGNC:71806]		0.634208199	7.53E-06	4.34E-05
ENSMMUG00000006291	protocadherin 12 [Source:VGNC Symbol;Acc:VGNC:75776]		1.012126999	1.27E-06	8.45E-06
ENSMMUG00000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]		0.731814854	3.62E-09	3.64E-08
ENSMMUG00000014175	sprouty RTK signaling antagonist 4 [Source:VGNC Symbol;Acc:VGNC:77925]		1.144207941	0.000550874	0.002120287
ENSMMUG00000060402			0.666691253	0.003628019	0.011216077
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]		2.07334627	2.92E-22	1.34E-20
ENSMMUG00000050405			2.284383604	1.54E-18	4.66E-17
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]		2.227531594	2.32E-41	7.47E-39
ENSMMUG000000035921	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]		1.717802861	0.004959825	0.014758067
ENSMMUG00000055068			-2.82099922	0.011023542	0.029418595
ENSMMUG00000063348			0.835625936	3.62E-06	2.21E-05

ENSMMUG00000019291	dihydropyrimidinase like 3 [Source:VGNC Symbol;Acc:VGNC:71985]	-	1.081697614	0.002552464	0.008232931
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	-	1.009560234	2.21E-11	3.02E-10
ENSMMUG00000056140	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.17395549	0.007109917	0.020137523
ENSMMUG00000064432		-	2.090602559	0.016966517	0.042487916
ENSMMUG00000062594		-	0.860861861	0.003411771	0.010622834
ENSMMUG00000001758	casein kinase 1 alpha 1 [Source:VGNC Symbol;Acc:VGNC:84290]	-	1.349665912	0.010385354	0.027946798
ENSMMUG00000004749	PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]	-	2.302354704	0.000167637	0.000725222
ENSMMUG00000011557	platelet derived growth factor receptor beta [Source:VGNC Symbol;Acc:VGNC:75929]	-	0.571852724	1.11E-16	2.79E-15
ENSMMUG00000011563	calcium/calmodulin dependent protein kinase II alpha [Source:VGNC Symbol;Acc:VGNC:70523]	-	2.586090192	0.020142813	0.049171674
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	-	1.069781669	2.05E-10	2.49E-09
ENSMMUG000000051062		-	0.845375452	0.000780195	0.002882485
ENSMMUG00000020679	myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]	-	1.532104395	1.77E-09	1.87E-08
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	-	2.175961666	8.24E-13	1.38E-11
ENSMMUG00000019764	dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]	-	1.820730293	1.50E-08	1.37E-07
ENSMMUG00000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]	-	1.170711129	1.02E-07	8.23E-07
ENSMMUG00000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]	-	1.135515883	1.80E-06	1.16E-05
ENSMMUG00000053656		-	0.988681734	7.16E-08	5.89E-07
ENSMMUG00000003499	solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]	-	1.735887095	6.19E-14	1.18E-12
ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]	-	-1.21642151	5.09E-06	3.02E-05
ENSMMUG00000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	-	1.650060118	2.14E-18	6.41E-17
ENSMMUG00000054302	antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]	-	1.254788537	9.42E-06	5.31E-05
ENSMMUG00000054082		-	0.400860418	0.020338112	0.049552219
ENSMMUG00000021228	gem nuclear organelle associated protein 5 [Source:VGNC Symbol;Acc:VGNC:72751]	-	0.501191529	0.001279255	0.004488137
ENSMMUG00000011463	kinesin family member 4B [Source:NCBI gene;Acc:715082]	-	1.206962476	0.016517444	0.041531653
ENSMMUG00000035086	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	-	-2.73230685	7.31E-05	0.000342891
ENSMMUG00000062861		-	2.040934664	4.37E-09	4.33E-08
ENSMMUG00000051081		-	0.730363884	0.005657389	0.01650582
ENSMMUG00000059241		-	-2.75978212	6.52E-10	7.37E-09
ENSMMUG00000011471	tetratricopeptide repeat domain 1 [Source:VGNC Symbol;Acc:VGNC:78667]	-	0.60366505	0.013534378	0.035090004
ENSMMUG00000011472	PWWP domain containing 2A [Source:VGNC Symbol;Acc:VGNC:76564]	-	1.935395607	2.73E-07	2.04E-06
ENSMMUG00000018044	gamma-aminobutyric acid type A receptor beta2 subunit [Source:VGNC Symbol;Acc:VGNC:72852]	-	1.513083902	0.001252008	0.004400162
ENSMMUG00000009171	potassium voltage-gated channel interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73832]	-	0.569999624	0.007995088	0.022312223
ENSMMUG00000000570	gamma-aminobutyric acid type A receptor pi subunit [Source:VGNC Symbol;Acc:VGNC:72859]	-	0.615614203	0.0026485	0.00850341
ENSMMUG00000015840	RAN binding protein 17 [Source:VGNC Symbol;Acc:VGNC:84485]	-	0.714906585	1.12E-07	8.97E-07
ENSMMUG00000046970	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.666517866	0.001333061	0.004652694
ENSMMUG00000059105		-	0.613133347	0.000193984	0.000829524
ENSMMUG00000033319		-	3.049165405	0.00695622	0.019770169
ENSMMUG00000003067	endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]	-	1.382626135	1.93E-17	5.24E-16
ENSMMUG00000059290	ATPase H+ transporting V0 subunit e1 [Source:NCBI gene;Acc:703342]	-	0.848634089	0.018984891	0.046717257

ENSMMUG00000019926	cytoplasmic polyadenylation element binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71450]	0.715577335	4.96E-07	3.55E-06
ENSMMUG00000053691	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.002345603	2.46E-06	1.55E-05
ENSMMUG00000009058	clathrin light chain B [Source:VGNC Symbol;Acc:VGNC:71267]	2.068542544	0.003356657	0.010480355
ENSMMUG00000009059	Fas associated factor family member 2 [Source:VGNC Symbol;Acc:VGNC:72332]	2.179433553	0.000109467	0.00049509
ENSMMUG00000013283	cadherin related family member 2 [Source:NCBI gene;Acc:697249]	2.174421308	9.78E-08	7.90E-07
ENSMMUG00000000137	synuclein beta [Source:VGNC Symbol;Acc:VGNC:77670]	2.780065728	0.009727236	0.026415476
ENSMMUG00000002649	unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]	2.137523965	9.52E-05	0.000436894
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	1.347229726	2.80E-14	5.52E-13
ENSMMUG00000009041	nuclear receptor binding SET domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75401]	1.344098135	2.51E-05	0.00013075
ENSMMUG00000009045	RAB24, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81524]	1.240722577	0.009352842	0.025572023
ENSMMUG00000016192	lectin, mannose binding 2 [Source:VGNC Symbol;Acc:VGNC:74302]	0.533772836	0.002759409	0.008825109
ENSMMUG00000019807	regulator of G protein signaling 14 [Source:VGNC Symbol;Acc:VGNC:76918]	0.780787861	3.54E-09	3.57E-08
ENSMMUG00000016911	DEAD-box helicase 41 [Source:VGNC Symbol;Acc:VGNC:71660]	1.165637761	5.16E-05	0.000249845
ENSMMUG00000063462		1.132146252	0.000425949	0.001685835
ENSMMUG00000017607	NEDD4 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:75053]	1.246891623	4.80E-05	0.000234131
ENSMMUG00000004000	collagen type XXIII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:22990]	0.822952316	0.000160384	0.000696891
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	1.720596095	3.20E-41	1.01E-38
ENSMMUG00000041519	zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]	2.143276453	1.71E-05	9.22E-05
ENSMMUG00000012370	calnexin [Source:VGNC Symbol;Acc:VGNC:70527]	0.320661653	0.003001953	0.009495039
ENSMMUG00000049557		1.696110764	0.000353891	0.001426531
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	1.578581968	1.66E-11	2.31E-10
ENSMMUG00000047880	alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:84439]	0.761760079	6.51E-09	6.29E-08
ENSMMUG00000042832	ZFP62 zinc finger protein [Source:VGNC Symbol;Acc:VGNC:84512]	0.745385923	0.000694993	0.002600745
ENSMMUG00000054010		0.385723044	0.013886805	0.035896553
ENSMMUG00000031833	butyrophilin like 9 [Source:NCBI gene;Acc:106996463]	0.809218428	0.000832543	0.003051562
ENSMMUG00000062522		2.039821798	2.50E-18	7.42E-17
ENSMMUG00000059428	olfactory receptor 2V2 [Source:NCBI gene;Acc:707790]	1.200547622	0.00111549	0.003974705
ENSMMUG00000061151		2.112449552	9.04E-10	9.96E-09
ENSMMUG00000054414		2.134461242	8.45E-13	1.41E-11
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	2.151720533	7.11E-20	2.47E-18
ENSMMUG00000062960		2.033165829	0.002072952	0.006868158
ENSMMUG00000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	1.546015518	6.57E-16	1.51E-14
ENSMMUG00000039829		1.362458818	2.06E-05	0.000109195
ENSMMUG00000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	1.661316464	8.94E-19	2.74E-17
ENSMMUG00000021044	afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]	1.310280804	5.67E-21	2.25E-19
ENSMMUG00000053990		1.361940868	0.000121533	0.000543201
ENSMMUG00000062443		1.466511538	2.89E-10	3.43E-09
ENSMMUG00000057859		-3.68261893	2.48E-13	4.37E-12

ENSMMUG00000029352	T-complex protein 10A homolog 2 [Source:NCBI gene;Acc:693619]	-	2.886519058	0.000734458	0.002727778
ENSMMUG00000008228	unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]	-	2.766274828	1.14E-07	9.14E-07
ENSMMUG00000057983			2.648045725	0.00208224	0.006889696
ENSMMUG00000054834			0.556744628	6.92E-07	4.83E-06
ENSMMUG00000020412	parkin coregulated [Source:VGNC Symbol;Acc:VGNC:75646]	-	0.634695034	0.019474623	0.047744861
ENSMMUG00000057544			0.925404117	0.000477146	0.001865071
ENSMMUG00000000500	fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72546]		0.488671835	0.001543758	0.005287283
ENSMMUG00000011994	T cell activation RhoGTPase activating protein [Source:VGNC Symbol;Acc:VGNC:78126]		0.624551017	0.002189699	0.007185933
ENSMMUG00000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]		2.351341226	1.60E-21	6.79E-20
ENSMMUG00000008184	methyltransferase like 24 [Source:VGNC Symbol;Acc:VGNC:74552]		1.410090855	1.77E-05	9.54E-05
ENSMMUG00000021534	solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]	-	1.860708399	0.000356672	0.001436179
ENSMMUG00000058763			1.005945665	0.01243781	0.032646501
ENSMMUG00000013782	laminin subunit alpha 4 [Source:VGNC Symbol;Acc:VGNC:74227]		0.543425756	4.76E-05	0.0002329
ENSMMUG00000061031			1.786339234	8.23E-07	5.67E-06
ENSMMUG00000001200			1.414007973	0.018629035	0.04595286
ENSMMUG00000060903			0.819389951	5.68E-05	0.000272751
ENSMMUG00000058557			1.982839704	7.59E-14	1.44E-12
ENSMMUG00000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]		2.443717348	2.00E-14	4.01E-13
ENSMMUG00000017558	discoidin, CUB and LCCL domain containing 1 [Source:VGNC Symbol;Acc:VGNC:71689]	-	1.254259467	2.75E-05	0.000141788
ENSMMUG00000059327	NUS1 dehydrodolichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]	-	1.652135188	1.00E-12	1.65E-11
ENSMMUG00000053187			1.825460537	0.017404365	0.043379284
ENSMMUG00000060554			1.493517828	0.009360306	0.025582996
ENSMMUG00000022354	solute carrier family 35 member F1 [Source:VGNC Symbol;Acc:VGNC:77548]		-1.85911603	0.006622186	0.018933299
ENSMMUG00000008525	minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]	-	3.213569929	2.71E-06	1.69E-05
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	-	5.034940905	9.69E-11	1.23E-09
ENSMMUG00000005225	gap junction protein alpha 1 [Source:VGNC Symbol;Acc:VGNC:73055]	-	1.327069867	1.91E-10	2.33E-09
ENSMMUG00000024966	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	2.777001719	0.000202773	0.000863869
ENSMMUG00000061165			1.501321632	5.60E-18	1.60E-16
ENSMMUG00000051170			1.765032121	1.44E-10	1.78E-09
ENSMMUG00000060822			1.358723715	7.40E-19	2.28E-17
ENSMMUG00000007910	heat shock transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:81077]	-	0.774783171	0.006665868	0.019044429
ENSMMUG00000052494			0.704339722	0.004041973	0.012343999
ENSMMUG00000009725	triadin [Source:HGNC Symbol;Acc:HGNC:12261]		0.922058919	9.52E-12	1.37E-10
ENSMMUG00000065276			0.810761806	5.95E-10	6.75E-09
ENSMMUG00000003134	ring finger protein 217 [Source:VGNC Symbol;Acc:VGNC:76801]	-	1.258474263	2.88E-06	1.79E-05
ENSMMUG00000062110	TPD52 like 1 [Source:NCBI gene;Acc:716568]	-	1.522745849	0.00042295	0.001674411

ENSMMUG00000060901		1.388852998	2.52E-16	6.07E-15
ENSMMUG00000015355	R-spondin 3 [Source:VGNC Symbol;Acc:VGNC:77066]	1.932072584	0.000466376	0.001827309
ENSMMUG00000048882	KIAA0408 ortholog [Source:NCBI gene;Acc:100429459]	0.720429981	3.16E-11	4.26E-10
ENSMMUG00000029421	protein tyrosine phosphatase receptor type K [Source:VGNC Symbol;Acc:VGNC:83453]	1.553951475	5.98E-05	0.000286143
ENSMMUG00000022136	laminin subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:74225]	0.636154021	7.15E-06	4.13E-05
ENSMMUG00000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]	0.839667636	4.51E-07	3.24E-06
ENSMMUG00000021499	sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]	0.932271309	3.75E-05	0.000186995
ENSMMUG00000059338	Y RNA [Source:RFAM;Acc:RF00019]	1.328941277	0.002160052	0.007099424
ENSMMUG00000065212		1.199923912	1.11E-06	7.50E-06
ENSMMUG00000059491		1.561149471	4.57E-15	9.84E-14
ENSMMUG00000017544	mediator complex subunit 23 [Source:VGNC Symbol;Acc:VGNC:74562]	0.567490781	7.93E-07	5.48E-06
ENSMMUG00000017549	ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]	0.821918129	0.000908266	0.003294103
ENSMMUG00000004996	monooxygenase DBH like 1 [Source:VGNC Symbol;Acc:VGNC:74800]	0.928459064	3.78E-08	3.22E-07
ENSMMUG00000004988	trace amine-associated receptor 3 [Source:NCBI gene;Acc:709130]	0.613324059	0.018796228	0.04632675
ENSMMUG00000004987	trace amine associated receptor 2 [Source:VGNC Symbol;Acc:VGNC:83475]	0.992231568	0.002766527	0.008844062
ENSMMUG00000064191	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.556463911	0.00282468	0.009003558
ENSMMUG00000015089	vanin 1 [Source:VGNC Symbol;Acc:VGNC:83967]	0.840620171	9.52E-07	6.47E-06
ENSMMUG00000054573		0.851880246	4.72E-06	2.82E-05
ENSMMUG00000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	1.82039005	1.41E-31	1.52E-29
ENSMMUG00000022920	TATA-box binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:83491]	0.838640869	0.001910184	0.006398922
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	2.917212034	2.52E-28	2.14E-26
ENSMMUG00000061787		2.521922073	0.00071274	0.002657098
ENSMMUG00000008140	serum/glucocorticoid regulated kinase 1 [Source:VGNC Symbol;Acc:VGNC:77195]	0.607539826	0.004987802	0.01482644
ENSMMUG00000027839	5S ribosomal RNA [Source:RFAM;Acc:RF00001]	1.160101129	0.006909248	0.019663049
ENSMMUG00000018166	MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]	0.986029979	2.71E-08	2.37E-07
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	1.111075949	1.69E-16	4.13E-15
ENSMMUG00000044284	40S ribosomal protein S11-like [Source:NCBI gene;Acc:706532]	0.796612678	0.000874471	0.003185556
ENSMMUG00000053936		0.685061205	0.001176821	0.004169197
ENSMMUG00000016376	mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]	1.402306137	3.16E-07	2.33E-06
ENSMMUG00000000122	heme binding protein 2 [Source:VGNC Symbol;Acc:VGNC:73172]	0.388804432	0.013616851	0.035285321
ENSMMUG00000000123	NHS like 1 [Source:VGNC Symbol;Acc:VGNC:75225]	0.741327094	4.56E-08	3.85E-07
ENSMMUG00000048283	mml-mir-3145 [Source:miRBase;Acc:MI0020897]	1.652329182	5.15E-05	0.00024982
ENSMMUG00000061250	ABRA C-terminal like [Source:NCBI gene;Acc:708266]	1.076768777	0.000358279	0.001441476
ENSMMUG00000019136	taxilin beta [Source:VGNC Symbol;Acc:VGNC:79325]	0.650198752	2.82E-11	3.82E-10
ENSMMUG00000046765		1.136355592	0.000220153	0.000930162
ENSMMUG00000059794		1.342211034	0.002997919	0.009486089
ENSMMUG00000058187		1.419584901	1.80E-23	9.52E-22
ENSMMUG00000023012	vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]	2.224354897	1.49E-08	1.36E-07
ENSMMUG00000044958	adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]	1.743369088	4.48E-09	4.43E-08
ENSMMUG00000064366		1.462963243	0.00013065	0.000580969
ENSMMUG00000061117		2.037024359	6.96E-15	1.48E-13

ENSMMUG0000007998	HIVEP zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:83427]	1.006506437	4.20E-09	4.17E-08
ENSMMUG0000006430	androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:69667]	1.002856752	0.008938255	0.024588077
ENSMMUG0000005366	alpha-L-fucosidase 2 [Source:VGNC Symbol;Acc:VGNC:72827]	1.478619451	0.003274565	0.010262424
ENSMMUG0000003750	PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]	1.47689261	0.000180431	0.000776491
ENSMMUG00000019443	syntaxin 11 [Source:VGNC Symbol;Acc:VGNC:78041]	3.913652586	5.16E-05	0.000249845
ENSMMUG00000019438	utrophin [Source:VGNC Symbol;Acc:VGNC:78749]	1.030167115	2.93E-06	1.82E-05
ENSMMUG00000051314		1.956098758	0.003261563	0.010232491
ENSMMUG00000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	1.691621965	1.96E-07	1.50E-06
ENSMMUG00000059202	Y RNA [Source:RFAM;Acc:RF00019]	2.431224846	0.00626086	0.018043063
ENSMMUG00000060839		3.539750633	0.003448216	0.010720553
ENSMMUG00000029475	zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]	2.202007906	9.52E-07	6.47E-06
ENSMMUG00000050174		3.069590979	0.004366387	0.013212307
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	1.677062312	1.16E-05	6.47E-05
ENSMMUG00000060940	acidic residue methyltransferase 1 [Source:NCBI gene;Acc:704570]	1.933201133	0.000864419	0.003152813
ENSMMUG00000018346	coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]	2.254482251	1.39E-06	9.20E-06
ENSMMUG00000025949	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.265815197	0.017659903	0.043920236
ENSMMUG00000019045	estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]	-1.65470496	4.07E-08	3.45E-07
ENSMMUG00000011171	transcription factor B1, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78398]	0.473625067	0.001980142	0.006597507
ENSMMUG00000011172	claudin 20 [Source:VGNC Symbol;Acc:VGNC:71249]	0.504527506	9.98E-05	0.000456781
ENSMMUG00000013483	prolyl endopeptidase [Source:VGNC Symbol;Acc:VGNC:76396]	0.755598191	0.000264487	0.001096546
ENSMMUG00000055978		0.704706563	1.08E-05	6.01E-05
ENSMMUG00000057697		1.802076681	4.18E-11	5.57E-10
ENSMMUG00000051522	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.175190031	6.62E-05	0.00031345
ENSMMUG00000051271		3.216285232	1.12E-22	5.39E-21
ENSMMUG00000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	1.105173101	2.74E-19	8.79E-18
ENSMMUG00000004061	cyclin C [Source:VGNC Symbol;Acc:VGNC:70722]	0.621746075	0.010662032	0.028556823
ENSMMUG00000050740	coenzyme Q3, methyltransferase [Source:NCBI gene;Acc:694215]	1.518172532	0.00256702	0.008274052
ENSMMUG00000005923	failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]	2.023296127	1.38E-10	1.71E-09
ENSMMUG00000037890		1.475783613	3.97E-05	0.00019622
ENSMMUG00000009182	caspase 8 associated protein 2 [Source:VGNC Symbol;Acc:VGNC:70548]	3.65045527	8.31E-05	0.000385643
ENSMMUG00000003462	ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]	0.712949972	8.05E-10	8.96E-09
ENSMMUG00000064235		0.571883723	0.003795605	0.011656415
ENSMMUG00000060841		-1.50898516	0.000107939	0.000488776

ENSMMUG0000002824	akirin 2 [Source:VGNC Symbol;Acc:VGNC:69665]	-	1.204324751	0.003010288	0.009516642
ENSMMUG0000002821	origin recognition complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:75715]	-	1.376954016	9.36E-07	6.38E-06
ENSMMUG00000017039	arginyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:76516]	-	0.806074285	7.52E-07	5.23E-06
ENSMMUG00000064804		-	1.664697286	5.79E-09	5.64E-08
ENSMMUG0000005442	5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]	-	1.476630894	4.89E-09	4.81E-08
ENSMMUG00000061590		-	-2.62763035	1.20E-06	8.01E-06
ENSMMUG0000004829	branched chain keto acid dehydrogenase E1 subunit beta [Source:VGNC Symbol;Acc:VGNC:70239]	-	3.173366072	0.002458035	0.007964312
ENSMMUG00000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	-	2.598459761	7.99E-14	1.51E-12
ENSMMUG0000004491	SUMO specific peptidase 6 [Source:VGNC Symbol;Acc:VGNC:77287]	-	0.614241921	8.03E-10	8.94E-09
ENSMMUG00000046092	adhesion G protein-coupled receptor B3 [Source:VGNC Symbol;Acc:VGNC:81006]	-	0.467343065	0.001891694	0.00634025
ENSMMUG00000041338	eyes shut homolog [Source:HGNC Symbol;Acc:HGNC:21555]	-	0.673900722	1.61E-10	1.98E-09
ENSMMUG00000017160	PHD finger protein 3 [Source:VGNC Symbol;Acc:VGNC:75975]	-	0.973503536	3.22E-07	2.37E-06
ENSMMUG00000062339	endogenous retrovirus group K member 25 Env polyprotein-like [Source:NCBI gene;Acc:114677579]	-	0.999649669	9.08E-06	5.15E-05
ENSMMUG0000002777	protein tyrosine phosphatase 4A1 [Source:VGNC Symbol;Acc:VGNC:83452]	-	0.979421472	3.64E-09	3.65E-08
ENSMMUG0000000777	dystonin [Source:VGNC Symbol;Acc:VGNC:81061]	-	1.671975478	0.011346869	0.03019452
ENSMMUG00000011858	bone morphogenetic protein 5 [Source:VGNC Symbol;Acc:VGNC:70264]	-	0.9977071	5.37E-06	3.18E-05
ENSMMUG00000001395	hypocretin receptor 2 [Source:VGNC Symbol;Acc:VGNC:73357]	-	2.628359727	0.004218837	0.012823397
ENSMMUG00000036060	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	2.59687451	0.004606256	0.013853695
ENSMMUG00000012784	tubulointerstitial nephritis antigen [Source:VGNC Symbol;Acc:VGNC:78382]	-	1.669115046	0.001873679	0.006289421
ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	-	1.784921474	2.20E-09	2.29E-08
ENSMMUG00000011049	leucine rich repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:81087]	-	1.322434426	0.003902812	0.011960881
ENSMMUG00000013718	translocation associated membrane protein 2 [Source:VGNC Symbol;Acc:VGNC:83515]	-	1.454472528	4.10E-18	1.19E-16
ENSMMUG00000052626	progesterone and adiponectin receptor family member 8 [Source:NCBI gene;Acc:708418]	-	0.637338236	1.49E-05	8.11E-05
ENSMMUG00000007403	interleukin 17A [Source:VGNC Symbol;Acc:VGNC:81081]	-	1.561378068	0.004846545	0.01447327
ENSMMUG00000026975	mm1-mir-206 [Source:miRBase;Acc:MI0007667]	-	4.46903577	0.000314948	0.001283857
ENSMMUG00000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	-	-2.31820807	6.71E-14	1.28E-12
ENSMMUG00000038096	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.843861783	0.014361726	0.036842138
ENSMMUG00000053984		-	2.872722588	6.28E-08	5.22E-07
ENSMMUG00000056168		-	3.867570014	0.000326683	0.001326956
ENSMMUG00000022983	adhesion G protein-coupled receptor F1 [Source:VGNC Symbol;Acc:VGNC:81007]	-	1.113486882	0.000747301	0.002767159
ENSMMUG00000023002	adhesion G protein-coupled receptor F5 [Source:VGNC Symbol;Acc:VGNC:69471]	-	0.787071284	6.02E-09	5.85E-08
ENSMMUG00000023000	mephrin A subunit alpha [Source:VGNC Symbol;Acc:VGNC:74704]	-	0.981165057	1.25E-05	6.90E-05
ENSMMUG00000042154	ankyrin repeat domain 66 [Source:VGNC Symbol;Acc:VGNC:81024]	-	0.924778921	1.40E-07	1.11E-06

ENSMMUG00000019254	phospholipase A2 group VII [Source:VGNC Symbol;Acc:VGNC:76158]	-1.3877263	2.47E-11	3.36E-10
ENSMMUG00000019252	tudor domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79319]	1.476927784	1.78E-15	3.95E-14
ENSMMUG00000019250	solute carrier family 25 member 27 [Source:VGNC Symbol;Acc:VGNC:77543]	1.322801299	1.65E-13	2.99E-12
ENSMMUG00000055199	cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]	1.278169758	0.002986943	0.009463013
ENSMMUG00000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	2.060991552	1.03E-11	1.47E-10
ENSMMUG00000042260	ectonucleotide pyrophosphatase/phosphodiesterase 4 [Source:VGNC Symbol;Acc:VGNC:81066]	1.935044991	0.012435808	0.032646501
ENSMMUG00000003511	chloride intracellular channel 5 [Source:VGNC Symbol;Acc:VGNC:71171]	1.300067179	2.49E-08	2.20E-07
ENSMMUG00000052523		2.904197849	0.000139592	0.000614836
ENSMMUG00000021377	SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]	2.088430272	4.73E-19	1.48E-17
ENSMMUG00000014389	cell division cycle 5 like [Source:VGNC Symbol;Acc:VGNC:70801]	0.766811094	0.000441411	0.001737757
ENSMMUG00000014388	spermatogenesis associated serine rich 1 [Source:VGNC Symbol;Acc:VGNC:77975]	0.796103411	2.59E-06	1.63E-05
ENSMMUG00000054860		-1.45849831	0.013450311	0.034914775
ENSMMUG00000060503	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-1.20126193	3.92E-05	0.000194196
ENSMMUG00000063288		1.043353409	6.45E-08	5.34E-07
ENSMMUG00000011670	protein tyrosine kinase 7 (inactive) [Source:VGNC Symbol;Acc:VGNC:83451]	-2.39293402	0.004188577	0.012739252
ENSMMUG00000013920	triggering receptor expressed on myeloid cells 2 [Source:VGNC Symbol;Acc:VGNC:79089]	0.941396589	0.000550045	0.002118196
ENSMMUG00000062538	adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]	1.735198629	2.48E-09	2.55E-08
ENSMMUG00000021173	nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]	1.500355109	1.49E-24	8.58E-23
ENSMMUG00000021171	apolipoprotein B mRNA editing enzyme catalytic subunit 2 [Source:VGNC Symbol;Acc:VGNC:69986]	1.144152914	4.13E-10	4.79E-09
ENSMMUG00000021169	translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]	1.073533341	3.51E-05	0.000176509
ENSMMUG00000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	1.491134019	8.61E-18	2.43E-16
ENSMMUG00000013651	kinesin family member 6 [Source:VGNC Symbol;Acc:VGNC:73873]	3.872443296	0.000501729	0.001951387
ENSMMUG00000013648	potassium two pore domain channel subfamily K member 16 [Source:VGNC Symbol;Acc:VGNC:73827]	3.747356749	5.89E-06	3.45E-05
ENSMMUG00000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	3.109448361	3.45E-26	2.33E-24
ENSMMUG00000023381	dynein axonemal heavy chain 8 [Source:VGNC Symbol;Acc:VGNC:71943]	0.671443918	1.10E-09	1.20E-08
ENSMMUG00000048502	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.073314452	0.00010439	0.000474734
ENSMMUG00000062055	glyoxalase I [Source:NCBI gene;Acc:719518]	1.201366259	2.44E-23	1.26E-21
ENSMMUG00000001634	BTB domain containing 9 [Source:VGNC Symbol;Acc:VGNC:70360]	2.743208285	0.01368364	0.035427442
ENSMMUG00000011575	coiled-coil domain containing 167 [Source:VGNC Symbol;Acc:VGNC:70833]	3.399247291	8.99E-09	8.47E-08
ENSMMUG00000011573	cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]	2.225343142	2.04E-08	1.83E-07
ENSMMUG00000022008	TBC1 domain family member 22B [Source:VGNC Symbol;Acc:VGNC:78192]	1.447835237	0.002459076	0.007965945
ENSMMUG00000063198		4.31470259	2.90E-12	4.51E-11
ENSMMUG00000059553		0.66191895	4.49E-05	0.000219954
ENSMMUG00000020558	serine/threonine kinase 38 [Source:VGNC Symbol;Acc:VGNC:78155]	1.219613431	0.003041681	0.009603604
ENSMMUG00000014508	potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]	1.285587646	3.07E-05	0.000156437
ENSMMUG00000055914		2.060227129	7.34E-12	1.07E-10
ENSMMUG00000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	2.274373403	2.83E-15	6.14E-14

ENSMMUG0000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	4.241174956	1.56E-18	4.68E-17
ENSMMUG00000007811	protein kinase C and casein kinase substrate in neurons 1 [Source:VGNC Symbol;Acc:VGNC:75744]	0.573974245	0.000281579	0.001157699
ENSMMUG00000004287	death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]	-	-	-
ENSMMUG00000003875	TAP binding protein [Source:VGNC Symbol;Acc:VGNC:78098]	1.788229366	1.81E-05	9.70E-05
ENSMMUG00000003872	ral guanine nucleotide dissociation stimulator like 2 [Source:VGNC Symbol;Acc:VGNC:76886]	-	-	-
ENSMMUG00000003871	prefoldin subunit 6 [Source:VGNC Symbol;Acc:VGNC:75906]	1.141188993	0.000517376	0.002003311
ENSMMUG00000003869	WD repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:78940]	-1.17330447	7.08E-05	0.000332982
ENSMMUG000000064507	beta-1,3-galactosyltransferase 4 [Source:NCBI gene;Acc:718178]	-1.12553549	0.014116745	0.036345718
ENSMMUG00000003864	VPS52 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:78551]	-	-	-
ENSMMUG00000003867	ribosomal protein S18 [Source:NCBI gene;Acc:706414]	1.221196718	4.31E-05	0.000212089
ENSMMUG00000003863	ring finger protein 1 [Source:VGNC Symbol;Acc:VGNC:83457]	-	-	-
ENSMMUG00000003859	solute carrier family 39 member 7 [Source:VGNC Symbol;Acc:VGNC:77592]	1.053834992	0.000702127	0.002623469
ENSMMUG00000003858	retinoid X receptor beta [Source:VGNC Symbol;Acc:VGNC:76952]	-	-	-
ENSMMUG00000003850	collagen type XI alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71290]	1.457183111	1.57E-08	1.43E-07
ENSMMUG00000019371	major histocompatibility complex, class II, DP alpha [Source:NCBI gene;Acc:717992]	-	-	-
ENSMMUG00000023138	bromodomain containing 2 [Source:VGNC Symbol;Acc:VGNC:83422]	1.508551607	0.000799906	0.002945037
ENSMMUG00000022626	major histocompatibility complex, class II, DM alpha [Source:NCBI gene;Acc:717870]	-	-	-
ENSMMUG00000018461	notch receptor 4 [Source:VGNC Symbol;Acc:VGNC:75372]	1.008854456	0.002110178	0.006972804
ENSMMUG00000018459	G protein signaling modulator 3 [Source:VGNC Symbol;Acc:VGNC:72938]	-	-	-
ENSMMUG00000018456	PBX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:75771]	1.532894332	1.76E-05	9.47E-05
ENSMMUG00000018434	1-acylglycerol-3-phosphate O-acyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:69745]	-	-	-
ENSMMUG00000006828	valyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:78755]	1.467297861	1.46E-06	9.64E-06
ENSMMUG00000006827	von Willebrand factor A domain containing 7 [Source:VGNC Symbol;Acc:VGNC:78941]	-	-	-
ENSMMUG00000009702	mutS homolog 5 [Source:NCBI gene;Acc:715494]	1.307880914	3.77E-07	2.74E-06
ENSMMUG00000058534		-	-	-
ENSMMUG00000015693	lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]	1.336999449	0.006494682	0.018617237
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	-	-	-
ENSMMUG00000039268	lymphocyte antigen 6G6e-like [Source:NCBI gene;Acc:100427419]	2.147424228	0.000791844	0.002920428
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	-	-	-
ENSMMUG00000054159	lymphocyte antigen 6 family member G5C [Source:VGNC Symbol;Acc:VGNC:83431]	1.989956655	0.000101811	0.000464595
ENSMMUG00000005294	casein kinase 2 beta [Source:NCBI gene;Acc:715807]	-	-	-
ENSMMUG00000005293	G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]	1.870317079	0.00055505	0.002133036
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	-	-	-
ENSMMUG00000005303	apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]	1.522253555	0.002912185	0.009263772
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	-	-	-
ENSMMUG00000025918	small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]	1.402933307	0.000421748	0.001670098
		-0.90351721	0.016933834	0.042434733
		-	-	-
		2.054348981	0.003768847	0.011593447
		-	-	-
		2.422930877	0.000171657	0.000740667
		-	-	-
		2.348151785	0.000378106	0.001515901
		3.796995815	9.48E-14	1.77E-12
		3.592750451	4.99E-17	1.30E-15
		2.954192505	3.39E-22	1.54E-20
		3.733766808	1.36E-05	7.50E-05
		2.966156084	5.88E-34	8.90E-32
		3.302939398	7.37E-07	5.12E-06
		3.055203882	7.57E-13	1.27E-11
		3.401774391	2.16E-17	5.86E-16
		3.023213244	5.85E-44	2.71E-41
		3.391822357	1.33E-14	2.74E-13
		2.76901654	3.70E-33	5.13E-31
		3.341157544	3.95E-09	3.94E-08

ENSMMUG00000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	2.747946979	8.59E-34	1.26E-31
ENSMMUG00000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	2.971614028	2.38E-32	2.90E-30
ENSMMUG00000008853	leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:HGNC:14189]	2.714324451	1.33E-09	1.44E-08
ENSMMUG00000008849	lymphotoxin beta [Source:VGNC Symbol;Acc:VGNC:74454]	2.316556832	3.72E-05	0.000185841
ENSMMUG000000045654	tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]	3.009296061	1.97E-10	2.40E-09
ENSMMUG00000008843	lymphotoxin alpha [Source:VGNC Symbol;Acc:VGNC:74452]	2.456878485	1.46E-08	1.33E-07
ENSMMUG000000062024	NFKB inhibitor like 1 [Source:NCBI gene;Acc:715283]	2.27933411	0.00051615	0.002000653
ENSMMUG000000052422	ATPase H+ transporting V1 subunit G2 [Source:NCBI gene;Acc:715331]	4.873701961	6.12E-06	3.58E-05
ENSMMUG00000008839	DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]	2.623999861	3.67E-13	6.38E-12
ENSMMUG000000026474	Small nucleolar RNA SNORD83 [Source:RFAM;Acc:RF00137]	4.325567813	1.35E-05	7.44E-05
ENSMMUG00000008838	mitochondrial coiled-coil domain 1 [Source:VGNC Symbol;Acc:VGNC:74548]	2.332413179	0.002091443	0.00691706
ENSMMUG00000006609	MHC class I polypeptide-related sequence B [Source:NCBI gene;Acc:715141]	2.104588616	0.000452166	0.001775855
ENSMMUG000000019961	protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]	2.771783532	0.005151815	0.015225471
ENSMMUG000000053627		1.693560227	0.018191838	0.045063964
ENSMMUG000000011682	ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]	3.003612729	6.13E-05	0.000292442
		-		
ENSMMUG000000060527		2.615353236	1.42E-12	2.29E-11
		-		
ENSMMUG000000023679	tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]	2.270484267	1.36E-12	2.21E-11
		-		
ENSMMUG000000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]	2.546349844	1.19E-17	3.32E-16
		-		
ENSMMUG000000012129	tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]	2.488950773	3.35E-22	1.52E-20
		-		
ENSMMUG000000058580	tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]	2.466437328	2.05E-09	2.14E-08
		-		
ENSMMUG000000062264		2.123887742	1.61E-05	8.76E-05
		-		
ENSMMUG000000012124	ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]	2.676927631	3.91E-09	3.91E-08
		-		
ENSMMUG000000012122	protein phosphatase 1 regulatory inhibitor subunit 11 [Source:VGNC Symbol;Acc:VGNC:82209]	2.531372294	6.31E-08	5.25E-07
		-		
ENSMMUG000000012120	zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]	2.774937394	5.85E-16	1.36E-14
		-		
ENSMMUG000000055272	putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]	2.881892079	8.85E-17	2.23E-15
		-		
ENSMMUG000000056544		3.572994557	1.15E-08	1.07E-07
		-		
ENSMMUG000000037625		2.489280206	5.30E-09	5.18E-08
		-		
ENSMMUG000000050761		1.763812479	0.000841138	0.0030785
ENSMMUG000000053561		3.666036004	0.000116615	0.000522792
ENSMMUG000000029883	olfactory receptor, family 2, subfamily J, member 3 [Source:NCBI gene;Acc:708943]	3.806807367	1.40E-05	7.67E-05
ENSMMUG000000059442		2.869383458	1.80E-07	1.39E-06
ENSMMUG000000005415	olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]	2.792543678	5.82E-06	3.42E-05
ENSMMUG000000004377	olfactory receptor, family 2, subfamily W, member 1 [Source:NCBI gene;Acc:708515]	3.483478112	0.009913622	0.026847885
ENSMMUG000000004619	zinc finger BED-type containing 9 [Source:VGNC Symbol;Acc:VGNC:81608]	0.807778733	1.21E-05	6.73E-05
ENSMMUG000000004617	glutathione peroxidase 6 [Source:VGNC Symbol;Acc:VGNC:73154]	-1.6267169	5.55E-06	3.27E-05
ENSMMUG000000060483		0.59195759	8.11E-05	0.000377363
		-		
ENSMMUG000000012396	zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]	1.830571473	1.09E-12	1.78E-11
		-		
ENSMMUG000000011675	zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]	1.364177219	2.31E-13	4.09E-12

ENSMMUG00000017495	geminin DNA replication inhibitor [Source:VGNC Symbol;Acc:VGNC:72954]	0.846390064	0.018805532	0.046341981
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	1.934919637	5.04E-26	3.31E-24
ENSMMUG00000029939	acyl-CoA thioesterase 13 [Source:VGNC Symbol;Acc:VGNC:69487]	-2.15099011	0.00807782	0.022530386
ENSMMUG00000051037		5.005467366	1.20E-20	4.61E-19
ENSMMUG00000063635		3.065641365	0.012333536	0.032441707
ENSMMUG00000054532		1.508535702	4.75E-09	4.68E-08
ENSMMUG00000052442		1.603747251	1.24E-10	1.54E-09
ENSMMUG00000059595	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.776189244	0.004244399	0.012895827
ENSMMUG00000014691	inhibitor of DNA binding 4, HLH protein [Source:VGNC Symbol;Acc:VGNC:73557]	0.676591853	3.31E-05	0.000167698
ENSMMUG00000047127		0.858390878	0.00288142	0.009175748
ENSMMUG00000063576	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.878296966	3.11E-05	0.000158404
ENSMMUG00000062089	ring finger protein 144B [Source:NCBI gene;Acc:705099]	0.927417108	0.001979835	0.006597507
ENSMMUG00000052891		2.413768367	3.93E-19	1.24E-17
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	2.213382144	3.88E-17	1.02E-15
ENSMMUG00000044473		1.796153993	3.40E-12	5.22E-11
ENSMMUG00000009922	mitochondrial calcium uniporter regulator 1 [Source:VGNC Symbol;Acc:VGNC:81471]	1.157644786	1.31E-09	1.41E-08
ENSMMUG00000020122	RAN binding protein 9 [Source:VGNC Symbol;Acc:VGNC:76475]	1.233056912	1.02E-08	9.54E-08
ENSMMUG00000008681	nucleolar protein 7 [Source:VGNC Symbol;Acc:VGNC:75226]	1.016685437	0.00764643	0.021465446
ENSMMUG00000061899	glucose-fructose oxidoreductase domain containing 1 [Source:NCBI gene;Acc:700607]	0.453085628	0.007036035	0.019958761
ENSMMUG00000005406	TBC1 domain family member 7 [Source:NCBI gene;Acc:706015]	0.775793968	0.01534045	0.038961422
ENSMMUG00000004347	androgen dependent TFPI regulating protein [Source:VGNC Symbol;Acc:VGNC:69661]	2.065097659	0.002737382	0.008769794
ENSMMUG00000058800		1.663811744	2.00E-13	3.59E-12
ENSMMUG00000016135	neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]	1.502571261	8.28E-09	7.85E-08
ENSMMUG00000046520	small integral membrane protein 13 [Source:NCBI gene;Acc:703387]	-1.13490541	2.86E-05	0.000146904
ENSMMUG00000043161	endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]	1.554000596	3.47E-08	2.97E-07
ENSMMUG00000005532	male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]	1.183103826	7.76E-10	8.68E-09
ENSMMUG00000018788	transmembrane protein 14B [Source:NCBI gene;Acc:698237]	1.064285888	1.04E-06	7.04E-06
ENSMMUG00000018787	PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]	1.025039878	1.91E-06	1.23E-05
ENSMMUG00000061586	chromosome 4 C6orf52 homolog [Source:NCBI gene;Acc:702114]	0.756345138	0.000116487	0.000522378
ENSMMUG00000006186	transcription factor AP-2 alpha [Source:VGNC Symbol;Acc:VGNC:78320]	1.143146429	0.005050207	0.014978915
ENSMMUG00000062812	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.042288661	0.00296375	0.009401585
ENSMMUG00000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	1.515151004	1.01E-15	2.28E-14
ENSMMUG00000044859		-1.48200121	0.000487797	0.001902692

ENSMMUG00000021600	bone morphogenetic protein 6 [Source:VGNC Symbol;Acc:VGNC:70265]	-	0.811433152	0.007339451	0.020677062
ENSMMUG00000015577	RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]	-	0.830458553	0.016918133	0.042402553
ENSMMUG00000007852	ras responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76939]	-	2.525669456	0.005475401	0.0160443
ENSMMUG00000001248	coagulation factor XIII A chain [Source:VGNC Symbol;Acc:VGNC:72462]	-	1.962602388	0.000661822	0.002492334
ENSMMUG000000060973		-	0.674259494	0.001413551	0.00489789
ENSMMUG000000055919		-	1.538570351	0.018415001	0.045523331
ENSMMUG000000023558	exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]	-	1.621409242	3.89E-05	0.000192813
ENSMMUG000000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	-	1.426449158	4.88E-22	2.19E-20
ENSMMUG000000003013	NIPA magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:75196]	-	4.231513972	0.005447636	0.015975567
ENSMMUG000000052887		-	2.643460259	0.00095836	0.003463922
ENSMMUG000000051793	gamma-aminobutyric acid type A receptor beta3 subunit [Source:NCBI gene;Acc:711754]	-	0.814752115	1.62E-05	8.80E-05
ENSMMUG000000062676		-	1.309456107	7.11E-10	8.01E-09
ENSMMUG000000054713		-	1.801730872	5.19E-07	3.70E-06
ENSMMUG000000065031		-	1.827788104	2.25E-23	1.18E-21
ENSMMUG000000046479		-	0.564430924	0.006611931	0.01891127
ENSMMUG000000058972		-	2.603225203	0.007150849	0.020230274
ENSMMUG000000019483	putative golgin subfamily A member 8D [Source:NCBI gene;Acc:100430266]	-	3.175738529	0.000577915	0.002210024
ENSMMUG000000021656	golgin subfamily A member 8S [Source:NCBI gene;Acc:722977]	-	2.839670045	0.001533217	0.005256035
ENSMMUG000000054315		-	-3.47430429	1.85E-09	1.95E-08
ENSMMUG000000055117		-	-3.71583141	1.14E-10	1.42E-09
ENSMMUG000000063268		-	3.512294662	3.45E-13	6.00E-12
ENSMMUG000000012838	OTU deubiquitinase 7A [Source:VGNC Symbol;Acc:VGNC:75660]	-	1.387032292	0.013129216	0.034158996
ENSMMUG000000009430	transient receptor potential cation channel subfamily M member 1 [Source:VGNC Symbol;Acc:VGNC:79964]	-	0.822994418	4.95E-07	3.54E-06
ENSMMUG000000009426	FANCD2 and FANCI associated nuclease 1 [Source:VGNC Symbol;Acc:VGNC:72595]	-	2.392374456	0.013192561	0.034311764
ENSMMUG000000019339	amyloid beta precursor protein binding family A member 2 [Source:VGNC Symbol;Acc:VGNC:69977]	-	-1.20483536	0.001862903	0.006257497
ENSMMUG000000005270	ryanodine receptor 3 [Source:NCBI gene;Acc:694996]	-	1.078294571	1.96E-20	7.25E-19
ENSMMUG000000064964		-	0.408001708	0.004500252	0.01356754
ENSMMUG000000002337	aquarius intron-binding spliceosomal factor [Source:VGNC Symbol;Acc:VGNC:69925]	-	0.721277799	0.00588254	0.017082058
ENSMMUG000000046486	zinc finger protein 770 [Source:NCBI gene;Acc:697740]	-	0.868928534	0.000141022	0.000620397
ENSMMUG000000064307		-	0.747054224	0.014322471	0.036760514
ENSMMUG000000061601		-	0.710684494	0.01918242	0.047106356
ENSMMUG000000063659		-	1.722687176	4.72E-06	2.82E-05

ENSMMUG00000051611		-	1.639053122	0.005805072	0.016890174
ENSMMUG00000049006	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.205563831	0.000610858	0.002319851
ENSMMUG00000060667		-	1.420654182	0.000818668	0.003006649
ENSMMUG00000018332	family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]	-	1.838748666	3.31E-10	3.89E-09
ENSMMUG00000018333	RAS guanyl releasing protein 1 [Source:VGNC Symbol;Acc:VGNC:76671]	-	1.712758174	0.016309317	0.041107583
ENSMMUG00000055491		-	1.657672016	0.001388746	0.004820348
ENSMMUG00000016686	BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]	-	1.026691913	1.53E-08	1.39E-07
ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	-	1.809390415	9.55E-16	2.17E-14
ENSMMUG00000020539	coiled-coil domain containing 9B [Source:VGNC Symbol;Acc:VGNC:70920]	-	0.754809292	0.003291954	0.010297339
ENSMMUG00000012408	dispatched RND transporter family member 2 [Source:VGNC Symbol;Acc:VGNC:71676]	-	1.029755796	6.12E-06	3.58E-05
ENSMMUG00000058981	kinetochore localized astrin (SPAG5) binding protein [Source:NCBI gene;Acc:702753]	-	0.862072436	1.41E-05	7.74E-05
ENSMMUG00000001482	coiled-coil domain containing 32 [Source:VGNC Symbol;Acc:VGNC:70891]	-	1.598986977	0.005612611	0.016397758
ENSMMUG00000001483	RNA pseudouridine synthase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77091]	-	1.459511856	0.002002903	0.006667353
ENSMMUG00000048910	kinetochore scaffold 1 [Source:VGNC Symbol;Acc:VGNC:84366]	-	-0.7001206	0.000839408	0.003072957
ENSMMUG00000004579	RAD51 recombinase [Source:VGNC Symbol;Acc:VGNC:76645]	-	0.849134502	0.001363349	0.004746118
ENSMMUG00000000306	regulator of microtubule dynamics 3 [Source:VGNC Symbol;Acc:VGNC:76821]	-	-0.77453383	0.009424289	0.025734158
ENSMMUG00000062039	chromosome 7 C15orf62 homolog [Source:NCBI gene;Acc:704353]	-	1.895100072	0.006707139	0.019146654
ENSMMUG00000013160	DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]	-	1.825414314	4.35E-06	2.62E-05
ENSMMUG00000044445	NADH:ubiquinone oxidoreductase complex assembly factor 1 [Source:VGNC Symbol;Acc:VGNC:84406]	-	0.451531947	0.002803534	0.008946934
ENSMMUG00000015482	RTF1 homolog, Paf1/RNA polymerase II complex component [Source:VGNC Symbol;Acc:VGNC:77119]	-	2.913705077	0.002931861	0.009316371
ENSMMUG00000010168	MAX dimerization protein MGA [Source:VGNC Symbol;Acc:VGNC:84390]	-	0.424363229	0.003783145	0.011625371
ENSMMUG00000003839	mitogen-activated protein kinase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74613]	-	1.050114789	1.98E-07	1.52E-06
ENSMMUG00000003844	spectrin beta, non-erythrocytic 5 [Source:VGNC Symbol;Acc:VGNC:77927]	-	0.474766995	0.00678163	0.019340688
ENSMMUG00000015449	phospholipase A2 group IVF [Source:VGNC Symbol;Acc:VGNC:76123]	-	0.813787007	4.31E-12	6.50E-11
ENSMMUG00000014511	VPS39 subunit of HOPS complex [Source:VGNC Symbol;Acc:VGNC:79257]	-	0.490171476	0.000566538	0.002170996
ENSMMUG00000001532	glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]	-	1.253849114	4.47E-32	5.22E-30
ENSMMUG00000001534	calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]	-	1.478468494	8.74E-13	1.45E-11
ENSMMUG00000063886	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.210952056	0.00337502	0.010524036
ENSMMUG00000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]	-	1.224789385	4.30E-19	1.35E-17
ENSMMUG00000064341	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	3.578410576	4.37E-05	0.000214456
ENSMMUG00000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	-	1.129611242	4.99E-11	6.57E-10
ENSMMUG00000015123	codanin 1 [Source:VGNC Symbol;Acc:VGNC:70788]	-	0.802771056	1.36E-05	7.49E-05
ENSMMUG00000010036	tau tubulin kinase 2 [Source:VGNC Symbol;Acc:VGNC:81598]	-	0.510753016	0.000521466	0.002017834
ENSMMUG00000006498	ubiquitin protein ligase E3 component n-recogin 1 [Source:VGNC Symbol;Acc:VGNC:79051]	-	0.433292828	0.012971691	0.033831437
ENSMMUG00000022251	transglutaminase 7 [Source:VGNC Symbol;Acc:VGNC:79880]	-	-0.64668284	5.10E-05	0.000247778
ENSMMUG00000017067	adenosine deaminase like [Source:VGNC Symbol;Acc:VGNC:69555]	-	-0.60973153	3.60E-05	0.000180595
ENSMMUG00000017070	zinc finger and SCAN domain containing 29 [Source:VGNC Symbol;Acc:VGNC:79633]	-	0.665715026	1.67E-05	9.04E-05
ENSMMUG00000017076	tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]	-	0.941426174	2.94E-07	2.18E-06
ENSMMUG00000007255	microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]	-	-1.69507711	1.14E-05	6.36E-05

ENSMMUG00000007860	diphosphoinositol pentakisphosphate kinase 1 [Source:VGNC Symbol;Acc:VGNC:76127]	-0.85774307	0.001637366	0.005565468
ENSMMUG00000007870	creatine kinase U-type, mitochondrial [Source:NCBI gene;Acc:114669858]	0.357672836	0.003634106	0.011229823
ENSMMUG000000021840	stereocilin [Source:NCBI gene;Acc:106996176]	0.300355939	0.011439994	0.030420497
ENSMMUG00000001682	protein disulfide isomerase family A member 3 [Source:VGNC Symbol;Acc:VGNC:75905]	1.690743577	0.001217257	0.004294296
ENSMMUG000000057376	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1-like [Source:NCBI gene;Acc:717098]	0.351712979	0.01220448	0.032147858
ENSMMUG000000016742	CTD small phosphatase like 2 [Source:VGNC Symbol;Acc:VGNC:71593]	0.588310037	6.91E-08	5.71E-07
ENSMMUG000000014288	eukaryotic translation initiation factor 3 subunit J [Source:VGNC Symbol;Acc:VGNC:72188]	0.782542394	7.91E-05	0.000368403
ENSMMUG000000014291	SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]	1.506502717	3.08E-11	4.16E-10
ENSMMUG000000001284	solute carrier family 28 member 2 [Source:VGNC Symbol;Acc:VGNC:77445]	0.584260056	0.003287219	0.010289037
ENSMMUG000000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	1.704029035	6.17E-15	1.31E-13
ENSMMUG000000049265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.451359391	6.62E-09	6.38E-08
ENSMMUG000000062254		2.288880489	6.13E-12	9.05E-11
ENSMMUG000000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]	1.105470844	1.07E-08	9.96E-08
ENSMMUG000000009833	SHC adaptor protein 4 [Source:VGNC Symbol;Acc:VGNC:77249]	1.804942612	0.008569005	0.023703614
ENSMMUG000000043893	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.299209694	0.019014063	0.046758515
ENSMMUG000000009838	COP9 signalosome subunit 2 [Source:VGNC Symbol;Acc:VGNC:71376]	1.040577399	7.71E-05	0.000359807
ENSMMUG000000009839	galactokinase 2 [Source:VGNC Symbol;Acc:VGNC:72870]	1.171563688	2.69E-05	0.000139012
ENSMMUG000000013496	DTW domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72017]	2.918787784	0.010229459	0.027599824
ENSMMUG000000056522		2.225445942	1.03E-09	1.13E-08
ENSMMUG000000050608		2.675276838	1.05E-33	1.52E-31
ENSMMUG00000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	2.252107158	2.17E-25	1.33E-23
ENSMMUG000000057283		2.018446291	8.46E-10	9.38E-09
ENSMMUG000000002876	solute carrier family 27 member 2 [Source:VGNC Symbol;Acc:VGNC:77439]	1.108472105	0.000705849	0.002635384
ENSMMUG000000002877	histidine decarboxylase [Source:VGNC Symbol;Acc:VGNC:73360]	1.530777056	0.006105767	0.017661112
ENSMMUG000000002879	GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]	1.101956893	5.41E-10	6.18E-09
ENSMMUG000000060278	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.161923191	2.67E-06	1.67E-05
ENSMMUG000000015159	adaptor related protein complex 4 subunit epsilon 1 [Source:VGNC Symbol;Acc:VGNC:69973]	0.378437392	0.008837187	0.02434618
ENSMMUG000000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	2.766051845	2.07E-20	7.61E-19
ENSMMUG000000017437	LysM domain containing 2 [Source:NCBI gene;Acc:694916]	1.678522728	3.15E-05	0.000159811
ENSMMUG000000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	1.526211346	3.50E-21	1.42E-19
ENSMMUG000000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	1.00445848	2.66E-22	1.22E-20
ENSMMUG000000017374	G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]	2.813366875	1.08E-06	7.27E-06
ENSMMUG000000007504	myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]	4.223289524	8.83E-08	7.17E-07
ENSMMUG000000007509	myosin VA [Source:VGNC Symbol;Acc:VGNC:75116]	0.659910346	0.000797017	0.002935858
ENSMMUG000000048644		1.612043378	0.000157421	0.000684421

ENSMMUG0000001423	family with sequence similarity 214 member A [Source:VGNC Symbol;Acc:VGNC:72354]	-	0.857433396	1.55E-09	1.65E-08
ENSMMUG00000020694	RAB27A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81527]	-	0.605059073	0.003211836	0.010091876
ENSMMUG00000010798	cell cycle progression 1 [Source:VGNC Symbol;Acc:VGNC:70844]	-	0.779946841	2.74E-05	0.000141169
ENSMMUG00000010797	phosphatidylinositol glycan anchor biosynthesis class B [Source:VGNC Symbol;Acc:VGNC:75985]	-	0.635125388	0.000115385	0.000517905
ENSMMUG00000029638	chromosome 7 C15orf65 homolog [Source:VGNC Symbol;Acc:VGNC:70689]	-	1.438788694	1.83E-06	1.18E-05
ENSMMUG00000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	-	2.030042462	9.53E-26	6.01E-24
ENSMMUG00000024054	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	2.266608275	0.013993134	0.036077569
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	-	2.049139988	5.83E-21	2.30E-19
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	-	1.483399615	5.50E-18	1.57E-16
ENSMMUG000000063795		-	1.540536432	0.000283752	0.001165661
ENSMMUG00000012690	myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]	-	2.269853261	0.000107288	0.00048657
ENSMMUG000000050482		-	2.117431546	0.000226116	0.000952915
ENSMMUG000000063524		-	0.380306551	0.002270329	0.007416076
ENSMMUG00000012933	myosin IE [Source:VGNC Symbol;Acc:VGNC:75114]	-	0.661809689	5.07E-08	4.27E-07
ENSMMUG000000060242	lactate dehydrogenase A like 6B [Source:NCBI gene;Acc:702403]	-	1.036341395	0.000270485	0.001117662
ENSMMUG000000057663	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	1.183302582	0.002255384	0.007370504
ENSMMUG00000018426	glucosaminyl (N-acetyl) transferase 3, mucin type [Source:VGNC Symbol;Acc:VGNC:84342]	-	2.375251523	0.011878878	0.03140174
ENSMMUG00000020348	BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]	-	1.742300253	3.79E-06	2.30E-05
ENSMMUG000000049749		-	-2.16946857	5.77E-19	1.78E-17
ENSMMUG000000050503		-	1.672305112	0.00014656	0.000642663
ENSMMUG00000001362	vacuolar protein sorting 13 homolog C [Source:VGNC Symbol;Acc:VGNC:79399]	-	0.625865442	0.000628496	0.002380741
ENSMMUG000000060717	C2 calcium dependent domain containing 4A [Source:NCBI gene;Acc:704354]	-	0.507615524	0.001449855	0.005007302
ENSMMUG000000063231	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.475495343	0.003666701	0.011307649
ENSMMUG000000060671		-	0.489554669	0.006994885	0.019868635
ENSMMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]	-	1.219435465	1.59E-17	4.38E-16
ENSMMUG000000059755	aph-1 homolog B, gamma-secretase subunit [Source:NCBI gene;Acc:705718]	-	1.061831802	0.001563941	0.005346529
ENSMMUG00000012117	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:VGNC Symbol;Acc:VGNC:73364]	-	0.661923867	8.99E-12	1.30E-10
ENSMMUG000000049375		-	0.607017361	1.60E-09	1.70E-08
ENSMMUG00000001247	zinc finger protein 609 [Source:VGNC Symbol;Acc:VGNC:79764]	-	0.471432029	0.012478129	0.032729158
ENSMMUG00000013270	RNA binding protein, mRNA processing factor 2 [Source:VGNC Symbol;Acc:VGNC:76511]	-	1.45065422	0.005074807	0.015039846
ENSMMUG00000010949	SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]	-	1.444504925	3.91E-16	9.21E-15
ENSMMUG00000004028	kelch repeat and BTB domain containing 13 [Source:VGNC Symbol;Acc:VGNC:73953]	-	1.827873354	0.000103629	0.000471562
ENSMMUG000000006297	programmed cell death 7 [Source:NCBI gene;Acc:708758]	-	0.607945974	7.43E-05	0.000348231
ENSMMUG000000006714	caseinolytic mitochondrial matrix peptidase chaperone subunit X [Source:VGNC Symbol;Acc:VGNC:84326]	-	0.828065193	0.005977971	0.017328637
ENSMMUG000000021788	immunoglobulin superfamily DCC subclass member 4 [Source:VGNC Symbol;Acc:VGNC:73388]	-	-1.38326795	6.79E-06	3.94E-05
ENSMMUG00000015450	3-hydroxyacyl-CoA dehydratase 3 [Source:VGNC Symbol;Acc:VGNC:73225]	-	0.692333079	0.001540961	0.005278921
ENSMMUG000000022056	DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]	-	1.209785895	1.09E-06	7.35E-06
ENSMMUG000000054184	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.435914174	8.24E-18	2.33E-16

ENSMMUG00000035748	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.488038168	2.04E-05	0.000108467
ENSMMUG00000008006	RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]	1.55131563	2.70E-20	9.80E-19
ENSMMUG00000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	1.287631195	1.30E-11	1.84E-10
ENSMMUG000000052828		1.538399017	1.80E-09	1.90E-08
ENSMMUG00000003693	DIS3 like exosome 3'-5' exoribonuclease [Source:VGNC Symbol;Acc:VGNC:71796]	4.011947419	5.69E-05	0.000272764
ENSMMUG000000063378		0.560479156	0.00012726	0.000566918
ENSMMUG000000041415	alpha and gamma adaptin binding protein [Source:NCBI gene;Acc:711436]	-2.47147486	4.17E-05	0.000205755
ENSMMUG000000015458	IQ motif containing H [Source:VGNC Symbol;Acc:VGNC:73655]	0.583562258	0.002645634	0.008496048
ENSMMUG00000004026	integrin subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73774]	0.519374972	1.73E-05	9.34E-05
ENSMMUG00000006230	NADPH oxidase 5 [Source:VGNC Symbol;Acc:VGNC:82198]	0.871960089	3.88E-09	3.88E-08
ENSMMUG00000007570	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	0.799559869	2.81E-06	1.75E-05
ENSMMUG00000006490	ariadne RBR E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:84308]	0.498781066	0.012724258	0.033286426
ENSMMUG000000011309	ADP dependent glucokinase [Source:VGNC Symbol;Acc:VGNC:69692]	0.517798234	8.31E-08	6.77E-07
ENSMMUG00000009584	neogenin 1 [Source:VGNC Symbol;Acc:VGNC:75314]	2.780529578	0.010319561	0.027815176
ENSMMUG000000057906		0.790252641	1.16E-09	1.26E-08
ENSMMUG000000059627		0.650867484	0.003125621	0.009841392
ENSMMUG000000063495		1.241745309	3.06E-22	1.40E-20
ENSMMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]	2.128666407	1.50E-19	4.93E-18
ENSMMUG000000011069	CDC like kinase 3 [Source:VGNC Symbol;Acc:VGNC:71260]	1.039851456	0.000253117	0.00105501
ENSMMUG000000022481	cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]	0.963110534	1.78E-10	2.18E-09
ENSMMUG000000015267	C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]	0.914076727	2.14E-15	4.69E-14
ENSMMUG000000018800	secretory carrier membrane protein 5 [Source:VGNC Symbol;Acc:VGNC:77136]	0.401860733	0.006494247	0.018617237
ENSMMUG000000008529	chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]	1.985091902	8.85E-09	8.34E-08
ENSMMUG000000061079	golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]	1.711039489	5.79E-16	1.34E-14
ENSMMUG000000016104	chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]	0.98697726	8.48E-11	1.08E-09
ENSMMUG000000061431	outer dense fiber of sperm tails 3 like 1 [Source:NCBI gene;Acc:706545]	1.009676664	6.41E-05	0.000304318
ENSMMUG000000053989		1.136086529	7.23E-14	1.37E-12
ENSMMUG000000058835		0.901322276	0.000743673	0.002756794
ENSMMUG000000011047	S-phase cyclin A associated protein in the ER [Source:VGNC Symbol;Acc:VGNC:77006]	1.155150597	5.06E-05	0.00024581
ENSMMUG000000053250		1.379645064	3.33E-06	2.04E-05
ENSMMUG000000008213	reticulocalbin 2 [Source:VGNC Symbol;Acc:VGNC:76887]	0.843596091	0.001425398	0.004932023
ENSMMUG000000010171	proline-serine-threonine phosphatase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:76459]	1.067449883	1.83E-09	1.93E-08
ENSMMUG000000042378	pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]	1.26804401	1.90E-20	7.04E-19
ENSMMUG000000014207	WD repeat domain 61 [Source:VGNC Symbol;Acc:VGNC:79843]	1.063263181	0.000439143	0.001730663
ENSMMUG000000045680	iron responsive element binding protein 2 [Source:VGNC Symbol;Acc:VGNC:84360]	1.535845022	5.53E-06	3.26E-05
ENSMMUG000000059973		0.658734257	0.002951696	0.009367354
ENSMMUG00000007541	cholinergic receptor nicotinic beta 4 subunit [Source:NCBI gene;Acc:106996685]	0.58386306	3.71E-06	2.26E-05
ENSMMUG000000064497		1.851640475	0.017906741	0.044459563
ENSMMUG000000059589		2.396479933	6.39E-09	6.18E-08
ENSMMUG000000056992	zinc finger AN1-type containing 6 [Source:NCBI gene;Acc:717543]	2.136059528	1.81E-14	3.67E-13
ENSMMUG000000009361	fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]	3.073526513	2.45E-33	3.43E-31

ENSMMUG00000054825		-	1.001560615	0.000383247	0.001532369
ENSMMUG0000002038	cell migration inducing hyaluronidase 1 [Source:VGNC Symbol;Acc:VGNC:71130]	-	1.125883542	9.68E-07	6.57E-06
ENSMMUG0000009409	mesoderm development LRP chaperone [Source:VGNC Symbol;Acc:VGNC:74507]	-	1.268979775	3.33E-05	0.000168239
ENSMMUG00000011564	transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]	-	3.568912988	0.0002154	0.000912418
ENSMMUG00000057295		-	0.441008831	0.003373267	0.010522834
ENSMMUG0000003002		-	0.775679978	0.000525835	0.002032881
ENSMMUG0000009087	HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]	-	-1.15811071	0.000105939	0.000481041
ENSMMUG0000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]	-	1.598801416	1.04E-11	1.49E-10
ENSMMUG00000062559		-	1.296135516	0.003661638	0.011301164
ENSMMUG0000008297	homer scaffold protein 2 [Source:VGNC Symbol;Acc:VGNC:73406]	-	0.416052172	0.008535442	0.023633422
ENSMMUG00000011328	cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]	-	1.095804597	1.37E-05	7.52E-05
ENSMMUG00000019838	phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]	-	1.293370515	1.82E-10	2.22E-09
ENSMMUG00000056737		-	-1.75945307	2.54E-05	0.00013216
ENSMMUG00000049563		-	1.668338824	6.34E-09	6.14E-08
ENSMMUG00000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	-	1.152312328	2.70E-23	1.40E-21
ENSMMUG00000010432	zinc finger protein 592 [Source:VGNC Symbol;Acc:VGNC:79762]	-	0.64446806	3.33E-09	3.37E-08
ENSMMUG00000063195		-	0.545432026	7.14E-05	0.000335736
ENSMMUG0000001386	neurotrophic receptor tyrosine kinase 3 [Source:VGNC Symbol;Acc:VGNC:75542]	-	-1.5129793	0.000110978	0.000500853
ENSMMUG00000057531	mitochondrial ribosomal protein S11 [Source:NCBI gene;Acc:697743]	-	0.818939271	0.020235138	0.049357548
ENSMMUG00000043001	milk fat globule EGF and factor V/VIII domain containing [Source:NCBI gene;Acc:703501]	-	1.379991291	0.002428662	0.007879469
ENSMMUG00000014414	abhydrolase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69463]	-	0.814358799	0.008870331	0.024419345
ENSMMUG00000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]	-	1.537466567	2.78E-19	8.87E-18
ENSMMUG00000011160	DNA polymerase gamma, catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76205]	-	0.745929524	0.004370935	0.013223372
ENSMMUG00000056869		-	0.284457142	0.017346716	0.043250133
ENSMMUG00000001254	TOPBP1 interacting checkpoint and replication regulator [Source:NCBI gene;Acc:700248]	-	0.853361683	0.010784546	0.02884307
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	-	1.647524088	1.32E-49	1.22E-46
ENSMMUG00000010586	mesoderm posterior bHLH transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:74618]	-	1.880926214	4.11E-07	2.97E-06
ENSMMUG00000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	-	1.684601972	3.92E-40	1.10E-37
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	-	1.711662804	3.79E-39	9.07E-37
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	-	1.536325245	4.86E-41	1.47E-38
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	-	2.610002942	9.67E-44	4.35E-41
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	-	2.731744554	1.38E-40	4.00E-38
ENSMMUG00000050794	zinc finger protein 774 [Source:NCBI gene;Acc:702985]	-	1.295203502	0.000115	0.000516336
ENSMMUG00000019526	BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]	-	1.539739335	0.000197164	0.000841424
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	-	1.804948265	6.82E-07	4.77E-06
ENSMMUG00000005108	RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]	-	1.57948416	0.000216682	0.00091654
ENSMMUG00000063322		-	1.454965539	1.20E-16	2.97E-15
ENSMMUG00000061958		-	2.132900488	0.001156672	0.004103696
ENSMMUG00000005220	synemin [Source:VGNC Symbol;Acc:VGNC:78201]	-	0.536683399	0.000110082	0.000497417
ENSMMUG00000005224	tetratricopeptide repeat domain 23 [Source:VGNC Symbol;Acc:VGNC:79534]	-	0.38324477	0.000260309	0.001081944

ENSMMUG00000018122	myocyte enhancer factor 2A [Source:VGNC Symbol;Acc:VGNC:74698]	-	1.833953176	0.005556118	0.016258332
ENSMMUG00000009934	golgin subfamily A member 8B-like [Source:NCBI gene;Acc:100430473]	-	-2.56299942	0.011330833	0.030169165
ENSMMUG00000016504	ankyrin repeat and SOCS box containing 7 [Source:VGNC Symbol;Acc:VGNC:69851]	-	0.929412772	0.019631433	0.048073672
ENSMMUG00000060063		-	1.018980945	2.75E-07	2.05E-06
ENSMMUG00000006659	aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]	-	1.404807343	6.24E-05	0.000297299
ENSMMUG00000001863	olfactory receptor, family 4, subfamily K, member 17 [Source:NCBI gene;Acc:697616]	-	0.869902783	0.013926547	0.035969568
ENSMMUG00000029455	olfactory receptor 4Q2 [Source:NCBI gene;Acc:114679271]	-	2.739415515	6.72E-29	5.97E-27
ENSMMUG00000053848		-	1.763829504	0.011266967	0.030014213
ENSMMUG00000045269		-	3.022501303	0.007225197	0.020409462
ENSMMUG00000058162		-	3.239128892	0.000853489	0.003119854
ENSMMUG00000016251	cyclin B1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:70827]	-	2.863543216	0.00193632	0.006476092
ENSMMUG00000016255	telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]	-	1.201507191	3.68E-07	2.68E-06
ENSMMUG00000048039	apurinic/aprimidinic endodeoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:84305]	-	1.519312478	3.12E-05	0.000158814
ENSMMUG00000019126	purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]	-	1.295902639	3.44E-05	0.000173236
ENSMMUG00000056465	epididymal protein 3A [Source:NCBI gene;Acc:704355]	-	0.400822858	0.001154226	0.004095997
ENSMMUG00000001656	epididymal protein 3B [Source:VGNC Symbol;Acc:VGNC:84336]	-	0.338910464	0.011648952	0.030893054
ENSMMUG00000056509	ribonuclease, RNase A family, 3 [Source:NCBI gene;Acc:100425327]	-	0.592450456	1.34E-05	7.38E-05
ENSMMUG00000020747	NDRG family member 2 [Source:VGNC Symbol;Acc:VGNC:74953]	-	2.616439937	0.002996643	0.009485639
ENSMMUG00000050445	ribonuclease A family member 8 [Source:NCBI gene;Acc:716333]	-	3.512814542	0.000397619	0.001585132
ENSMMUG00000006457	Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]	-	4.037803488	4.52E-09	4.47E-08
ENSMMUG00000014809	heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]	-	3.338837089	1.46E-05	7.98E-05
ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]	-	4.286048258	1.45E-20	5.49E-19
ENSMMUG00000055229		-	3.587303646	3.97E-28	3.30E-26
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	-	-3.06372006	9.04E-21	3.48E-19
ENSMMUG00000015002	chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]	-	2.418430406	5.97E-11	7.78E-10
ENSMMUG00000014992	RAB2B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81530]	-	1.997924479	0.006989581	0.019857373
ENSMMUG00000015004	TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]	-	1.873136966	0.000353319	0.00142461
ENSMMUG00000014997	spalt like transcription factor 2 [Source:NCBI gene;Acc:708367]	-	2.024234925	1.53E-07	1.20E-06
ENSMMUG00000047342	T cell receptor alpha variable 12-2 [Source:HGNC Symbol;Acc:HGNC:12106]	-	1.378570291	0.004413508	0.013330413
ENSMMUG00000062974		-	1.912975386	5.63E-07	4.00E-06
ENSMMUG00000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	-	2.569496293	8.34E-16	1.91E-14
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	-	2.683099638	1.34E-27	1.08E-25
ENSMMUG00000054116	T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]	-	2.795034124	2.36E-25	1.44E-23
ENSMMUG00000056910		-	1.476495414	3.12E-07	2.30E-06
ENSMMUG00000056431		-	0.40384208	0.000708428	0.00264368
ENSMMUG00000057791		-	1.230722632	7.60E-05	0.000355032
ENSMMUG00000053686		-	3.353433195	0.004034009	0.012322216

ENSMMUG00000000413	solute carrier family 7 member 7 [Source:VGNC Symbol;Acc:VGNC:77631]	-	0.568216095	0.018058346	0.044790981
ENSMMUG00000014748	solute carrier family 22 member 17 [Source:VGNC Symbol;Acc:VGNC:77560]	-	2.173066899	0.000152896	0.000667749
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	-	1.243517001	8.24E-09	7.83E-08
ENSMMUG00000029420		-	1.209068492	0.000251442	0.001049207
ENSMMUG00000014766	neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]	-	0.776054465	0.000443089	0.001742975
ENSMMUG00000045970	thiamine triphosphatase [Source:NCBI gene;Acc:714403]	-	0.751299848	3.40E-07	2.49E-06
ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	-	1.148213876	2.34E-14	4.64E-13
ENSMMUG00000004144	adaptor related protein complex 1 subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:69959]	-	0.648989833	5.01E-06	2.98E-05
ENSMMUG00000041108	junctophilin 4 [Source:VGNC Symbol;Acc:VGNC:84363]	-	0.343047764	0.011914089	0.031477986
ENSMMUG00000059196		-	0.999367028	6.18E-13	1.05E-11
ENSMMUG00000050597		-	2.637928694	0.00787462	0.022021613
ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]	-	2.148897118	6.19E-09	6.00E-08
ENSMMUG00000012473	proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]	-	3.062878624	1.43E-07	1.13E-06
ENSMMUG00000012474	ring finger protein 31 [Source:NCBI gene;Acc:715239]	-	2.367988266	1.63E-05	8.82E-05
ENSMMUG00000040817	interferon regulatory factor 9 [Source:VGNC Symbol;Acc:VGNC:84361]	-	-2.2252276	5.47E-05	0.000263559
ENSMMUG00000012480	REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]	-	2.913504756	7.47E-13	1.26E-11
ENSMMUG00000012481	importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]	-	2.420550143	1.24E-12	2.01E-11
ENSMMUG00000012493	transmembrane 9 superfamily member 1 [Source:NCBI gene;Acc:715472]	-	2.978648234	0.002079344	0.006883186
ENSMMUG00000012452	transglutaminase 1 [Source:NCBI gene;Acc:715854]	-	-2.0983613	0.007306245	0.020600487
ENSMMUG00000010049	NOP9 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75216]	-	2.016352405	0.001035356	0.003712361
ENSMMUG00000019692	sec1 family domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77065]	-	0.777808339	1.91E-05	0.000102039
ENSMMUG00000011515	striatin 3 [Source:VGNC Symbol;Acc:VGNC:78127]	-	1.466646063	4.08E-05	0.000201903
ENSMMUG00000003123	adaptor related protein complex 4 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:84304]	-	-1.7709731	0.016238187	0.040947511
ENSMMUG00000003120	HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]	-	1.777791464	1.94E-08	1.75E-07
ENSMMUG00000056906		-	1.14112466	3.41E-14	6.63E-13
ENSMMUG00000012576	sorting nexin 6 [Source:NCBI gene;Acc:693626]	-	1.051491748	0.000433379	0.001711587
ENSMMUG00000015073	signal recognition particle 54 [Source:VGNC Symbol;Acc:VGNC:82247]	-	0.558854351	0.001781948	0.006015544
ENSMMUG00000003530	protein phosphatase 2 regulatory subunit B"gamma [Source:VGNC Symbol;Acc:VGNC:76279]	-	0.651787894	6.40E-06	3.73E-05
ENSMMUG00000016487	Ral GTPase activating protein catalytic alpha subunit 1 [Source:VGNC Symbol;Acc:VGNC:76504]	-	1.063384355	0.0021424	0.007052561
ENSMMUG00000009648	paired box 9 [Source:VGNC Symbol;Acc:VGNC:75768]	-	1.806884771	0.018335219	0.045371709
ENSMMUG00000056013	forkhead box A1 [Source:NCBI gene;Acc:697909]	-	2.620762651	0.000238237	0.000998883
ENSMMUG00000052465		-	1.253055289	0.003063133	0.009663105
ENSMMUG00000052781		-	0.585127307	3.96E-05	0.000195792
ENSMMUG00000017677	chromosome 7 C14orf28 homolog [Source:VGNC Symbol;Acc:VGNC:70581]	-	-0.76652536	8.67E-10	9.59E-09
ENSMMUG00000016513	FA complementation group M [Source:VGNC Symbol;Acc:VGNC:72554]	-	3.230774526	0.003184767	0.010012741
ENSMMUG00000003913	DNA polymerase epsilon 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76204]	-	0.796782865	0.000235576	0.000989404

ENSMMUG0000008214	nuclear export mediator factor [Source:VGNC Symbol;Acc:VGNC:84407]	1.278489193	5.08E-05	0.00024683
ENSMMUG00000055903	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.663609573	0.004335988	0.013135532
ENSMMUG00000049543		1.390428066	5.86E-06	3.44E-05
ENSMMUG00000055012		1.980101051	9.28E-06	5.24E-05
ENSMMUG00000059134		1.875424611	2.09E-07	1.59E-06
ENSMMUG00000007464	SOS Ras/Rho guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:77838]	0.610699799	0.015469012	0.039214606
ENSMMUG00000009577	atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]	1.113517504	3.00E-16	7.18E-15
ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	4.051661295	2.00E-44	9.59E-42
ENSMMUG00000056844		2.042354419	5.74E-06	3.38E-05
ENSMMUG00000018274	FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]	0.991188947	8.10E-10	9.01E-09
ENSMMUG00000018200	RNA transcription, translation and transport factor [Source:VGNC Symbol;Acc:VGNC:77087]	2.432763856	5.65E-05	0.000271132
ENSMMUG00000000023	prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]	1.091507924	2.63E-05	0.000136178
ENSMMUG00000006997	thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]	1.705807935	1.70E-43	7.43E-41
ENSMMUG00000010689	fermitin family member 2 [Source:VGNC Symbol;Acc:VGNC:82144]	0.848460121	0.00058391	0.002228353
ENSMMUG00000004084	GTP cyclohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:72900]	0.803364006	0.001574461	0.005373421
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	2.573351018	3.74E-46	1.98E-43
ENSMMUG000000054112		0.874805169	1.69E-09	1.79E-08
ENSMMUG00000003567	DLG associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71850]	0.764598017	1.07E-05	6.00E-05
ENSMMUG00000023041	TATA-box binding protein like 2 [Source:VGNC Symbol;Acc:VGNC:78175]	0.948317855	0.000266605	0.00110471
ENSMMUG000000061576		1.928859754	1.04E-05	5.81E-05
ENSMMUG000000053489		1.32066157	6.92E-08	5.71E-07
ENSMMUG00000059984	pellino E3 ubiquitin protein ligase family member 2 [Source:NCBI gene;Acc:699169]	1.505999971	0.001711182	0.005797768
ENSMMUG00000018278	exocyst complex component 5 [Source:VGNC Symbol;Acc:VGNC:72260]	1.612057667	0.000580909	0.00222033
ENSMMUG00000003508	actin related protein 10 [Source:VGNC Symbol;Acc:VGNC:69449]	0.59354683	2.04E-07	1.56E-06
ENSMMUG00000003509	proteasome 20S subunit alpha 3 [Source:NCBI gene;Acc:700251]	0.44301678	0.012231332	0.032190001
ENSMMUG00000055678	translocase of outer mitochondrial membrane 20 like [Source:NCBI gene;Acc:700628]	1.467481057	0.000280628	0.00115443
ENSMMUG00000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	1.854026754	4.18E-30	4.08E-28
ENSMMUG00000002540	dehydrogenase/reductase 7 [Source:VGNC Symbol;Acc:VGNC:71690]	0.619530449	7.23E-07	5.03E-06
ENSMMUG00000058852	SIX homeobox 1 [Source:NCBI gene;Acc:703696]	-0.98607231	0.005848075	0.017003563
ENSMMUG00000058450		1.871114495	3.32E-05	0.000167812
ENSMMUG00000001640	SIX homeobox 4 [Source:NCBI gene;Acc:703798]	2.049121609	7.21E-11	9.31E-10
ENSMMUG00000001642	MNAT1 component of CDK activating kinase [Source:VGNC Symbol;Acc:VGNC:74905]	1.442597609	9.92E-09	9.30E-08
ENSMMUG00000050297		1.502935239	1.33E-06	8.80E-06
ENSMMUG00000051446		1.227950463	0.001186969	0.004199411
ENSMMUG00000007264	transmembrane protein 30B [Source:VGNC Symbol;Acc:VGNC:79656]	1.633483408	7.87E-07	5.45E-06
ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.511798249	1.54E-29	1.47E-27
ENSMMUG00000008203	ras homolog family member J [Source:VGNC Symbol;Acc:VGNC:76885]	0.757126025	0.000521535	0.002017834

ENSMMUG00000054689		-	1.837124293	3.83E-07	2.77E-06
ENSMMUG00000001008	spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]	-	-1.21898011	3.26E-06	2.01E-05
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	-	1.085397451	1.45E-09	1.55E-08
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	-	1.477579369	2.49E-19	8.02E-18
ENSMMUG000000056063		-	3.153791295	6.41E-10	7.25E-09
ENSMMUG000000053575	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.298190037	0.004817308	0.014397557
ENSMMUG000000019172	spectrin beta, erythrocytic [Source:VGNC Symbol;Acc:VGNC:77870]	-	1.025465509	4.69E-05	0.000229825
ENSMMUG00000004340	churchill domain containing 1 [Source:NCBI gene;Acc:100427906]	-	0.5982655	9.59E-05	0.000439612
ENSMMUG000000021987	glutathione peroxidase 2 [Source:VGNC Symbol;Acc:VGNC:73152]	-	2.061974242	0.007968762	0.022247127
ENSMMUG00000004339	RAB15, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81519]	-	0.827524602	0.000284281	0.001167188
ENSMMUG000000053774		-	1.629467886	0.008494611	0.023524759
ENSMMUG000000013848	fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]	-	2.191970213	7.74E-11	9.92E-10
ENSMMUG000000013907	ribosomal protein S27a [Source:NCBI gene;Acc:718909]	-	1.814704684	0.000162186	0.000704515
ENSMMUG000000033490	mml-mir-625 [Source:miRBase;Acc:MI0007874]	-	2.890405232	0.004762364	0.014256329
ENSMMUG00000006768	coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]	-	2.780369571	7.36E-10	8.27E-09
ENSMMUG00000009520	gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]	-	2.008200947	3.81E-08	3.24E-07
ENSMMUG000000021418	ATPase H+ transporting V1 subunit D [Source:VGNC Symbol;Acc:VGNC:70060]	-	1.055334937	4.57E-06	2.74E-05
ENSMMUG000000021419	eukaryotic translation initiation factor 2 subunit alpha [Source:VGNC Symbol;Acc:VGNC:72187]	-	0.588089791	0.004718724	0.01414282
ENSMMUG000000021327	phosphatidylinositol glycan anchor biosynthesis class H [Source:VGNC Symbol;Acc:VGNC:75987]	-	1.421063201	8.95E-05	0.000412809
ENSMMUG000000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	-	2.76982968	1.77E-34	2.87E-32
ENSMMUG000000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	-	2.237071205	6.20E-34	9.28E-32
ENSMMUG000000015868	retinol dehydrogenase 11 [Source:NCBI gene;Acc:711195]	-	1.006907409	1.88E-11	2.60E-10
ENSMMUG000000015869	retinol dehydrogenase 12 [Source:VGNC Symbol;Acc:VGNC:76781]	-	1.014517104	0.003608279	0.011157375
ENSMMUG000000015871	zinc finger FYVE-type containing 26 [Source:VGNC Symbol;Acc:VGNC:79283]	-	1.370637455	8.74E-05	0.000404333
ENSMMUG000000050511		-	1.223349876	0.001488444	0.00512268
ENSMMUG000000015873	RAD51 paralog B [Source:VGNC Symbol;Acc:VGNC:76647]	-	1.054900587	0.009392479	0.025666198
ENSMMUG000000064908		-	1.014280377	0.016229459	0.040932461
ENSMMUG000000054163		-	2.701470746	0.011017374	0.029407426
ENSMMUG000000021572	solute carrier family 39 member 9 [Source:VGNC Symbol;Acc:VGNC:77523]	-	0.609463558	0.00563311	0.016451165
ENSMMUG000000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	-	1.788584567	7.80E-17	1.98E-15
ENSMMUG000000022407	serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]	-	1.478145793	9.19E-09	8.64E-08
ENSMMUG000000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	-	1.952998426	1.06E-28	9.26E-27
ENSMMUG000000045443		-	1.508623245	0.012687481	0.033207791
ENSMMUG000000011084	ADAM metalloproteinase domain 21 [Source:NCBI gene;Acc:715640]	-	1.006474619	0.00294531	0.009349089
ENSMMUG000000059282		-	-1.33583777	0.004850666	0.01448266
ENSMMUG000000052580	disintegrin and metalloproteinase domain-containing protein 20-like [Source:NCBI gene;Acc:713632]	-	1.061101026	0.001252103	0.004400162
ENSMMUG000000019470	pecanex 1 [Source:VGNC Symbol;Acc:VGNC:75655]	-	0.762832696	4.34E-06	2.61E-05

ENSMMUG00000060340		-	0.778504015	0.005582848	0.016323666
ENSMMUG00000001820	regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]		3.1777234	0.000181715	0.000781566
ENSMMUG00000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]		1.281494822	0.000138988	0.000613266
ENSMMUG00000010173	presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]		1.879448453	1.83E-17	4.98E-16
ENSMMUG00000037015	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]		1.799106844	0.013929102	0.035969568
ENSMMUG00000056580	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		2.88928679	6.33E-05	0.000301111
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]		2.030251492	2.23E-32	2.78E-30
ENSMMUG00000053481			1.967107021	1.79E-12	2.86E-11
ENSMMUG00000049894			2.120140166	2.25E-07	1.70E-06
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]		1.961661785	5.83E-20	2.04E-18
ENSMMUG00000004910	dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]		1.692376846	3.24E-09	3.29E-08
ENSMMUG00000034824	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]		2.071632474	0.009807578	0.026604423
ENSMMUG00000004911	PNMA family member 1 [Source:VGNC Symbol;Acc:VGNC:76199]		1.129521791	0.005220975	0.015380823
ENSMMUG00000004913	mitotic deacetylase associated SANT domain protein [Source:VGNC Symbol;Acc:VGNC:72073]		0.878483186	4.63E-09	4.56E-08
ENSMMUG00000011148	coenzyme Q6, monooxygenase [Source:VGNC Symbol;Acc:VGNC:71239]		0.352898958	0.006380325	0.018347919
ENSMMUG00000056376			2.326081145	1.22E-14	2.52E-13
ENSMMUG00000004255	YLP motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79092]		1.423494663	8.76E-06	4.98E-05
ENSMMUG00000002909	placental growth factor [Source:VGNC Symbol;Acc:VGNC:75964]		0.618150785	0.005875114	0.017063834
ENSMMUG00000002911	mutL homolog 3 [Source:VGNC Symbol;Acc:VGNC:82187]		1.299697302	0.000260609	0.001082891
ENSMMUG00000015165	zinc finger C2HC-type containing 1C [Source:VGNC Symbol;Acc:VGNC:79247]		1.003663229	0.00487465	0.014548413
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]		1.129761882	9.40E-20	3.21E-18
ENSMMUG00000015168	transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]		0.928626283	0.001031396	0.003700848
ENSMMUG00000040100	Fos proto-oncogene, AP-1 transcription factor subunit [Source:VGNC Symbol;Acc:VGNC:84340]		-0.70307676	2.11E-05	0.000111291
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]		1.403332891	2.47E-07	1.86E-06
ENSMMUG00000012065	tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]		2.171729301	3.33E-24	1.86E-22
ENSMMUG00000012069	transforming growth factor beta 3 [Source:VGNC Symbol;Acc:VGNC:78335]		1.087719009	6.78E-05	0.00032028
ENSMMUG00000008792	G-patch domain containing 2 like [Source:VGNC Symbol;Acc:VGNC:72973]		1.293547707	2.28E-06	1.45E-05
ENSMMUG00000016773	estrogen related receptor beta [Source:VGNC Symbol;Acc:VGNC:72434]		0.553706666	0.002588483	0.008335982
ENSMMUG00000057021	CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]		1.374823542	1.91E-07	1.47E-06
ENSMMUG00000007561	zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]		1.689924775	3.84E-15	8.27E-14
ENSMMUG00000001097	glutathione S-transferase zeta 1 [Source:VGNC Symbol;Acc:VGNC:73304]		0.417647549	0.015140678	0.038553616
ENSMMUG00000013551	VPS33B interacting protein, apical-basolateral polarity regulator, spe-39 homolog [Source:VGNC Symbol;Acc:VGNC:79246]		0.823371875	0.002127147	0.007013249
ENSMMUG00000023627	aarF domain containing kinase 1 [Source:VGNC Symbol;Acc:VGNC:69472]		1.015775066	0.005195967	0.015328464
ENSMMUG00000019710	centrosomal protein 128 [Source:VGNC Symbol;Acc:VGNC:71062]		0.833687348	0.005006855	0.014866455
ENSMMUG00000019713	thyroid stimulating hormone receptor [Source:VGNC Symbol;Acc:VGNC:78662]		1.218068299	2.07E-05	0.000109304
ENSMMUG00000022124	stonin 2 [Source:VGNC Symbol;Acc:VGNC:78249]		1.479969038	7.32E-05	0.000343385
ENSMMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]		1.384783658	6.91E-26	4.46E-24
ENSMMUG00000017260	G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]		1.575573007	1.66E-17	4.57E-16
ENSMMUG00000021011	spermatogenesis associated 7 [Source:VGNC Symbol;Acc:VGNC:77971]		1.465944841	0.007603915	0.0213653

ENSMMUG0000004603	zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]	-	0.521169707	0.000626675	0.00237627
ENSMMUG0000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]	-	1.033288276	2.76E-08	2.42E-07
ENSMMUG0000004460	tyrosyl-DNA phosphodiesterase 1 [Source:VGNC Symbol;Acc:VGNC:79164]	-	1.185258966	2.88E-05	0.000147512
ENSMMUG00000020687	coiled-coil domain containing 88C [Source:VGNC Symbol;Acc:VGNC:84321]	-	0.473893482	0.000420249	0.001665055
ENSMMUG0000008447	fibulin 5 [Source:VGNC Symbol;Acc:VGNC:72622]	-	2.160952715	3.28E-06	2.02E-05
ENSMMUG00000020751	ataxin 3 [Source:NCBI gene;Acc:720515]	-	0.922268239	0.000168238	0.000727395
ENSMMUG0000000699	cleavage and polyadenylation specific factor 2 [Source:VGNC Symbol;Acc:VGNC:71473]	-	0.868331638	0.002472433	0.00799873
ENSMMUG00000013966	legumain [Source:VGNC Symbol;Acc:VGNC:74274]	-	1.159482981	6.33E-11	8.23E-10
ENSMMUG00000059579		-	0.658148622	0.008547413	0.023654782
ENSMMUG00000009974	inositol-tetrakisphosphate 1-kinase [Source:VGNC Symbol;Acc:VGNC:73802]	-	1.422547991	0.001052197	0.003765465
ENSMMUG00000044581	modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]	-	1.358163054	3.59E-06	2.19E-05
ENSMMUG00000061833	transmembrane protein 251 [Source:NCBI gene;Acc:708131]	-	1.560852782	7.69E-06	4.41E-05
ENSMMUG00000053729		-	0.645190778	0.000221388	0.000934581
ENSMMUG00000062301		-	0.795293338	0.001975705	0.006585683
ENSMMUG00000052453	serpin family A member 11 [Source:NCBI gene;Acc:701483]	-	3.438808714	1.31E-10	1.63E-09
ENSMMUG00000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]	-	3.016023684	7.37E-20	2.55E-18
ENSMMUG00000020586	serpin family A member 12 [Source:VGNC Symbol;Acc:VGNC:77266]	-	4.173462552	0.000180823	0.000777954
ENSMMUG00000064358		-	2.882263469	0.012546237	0.032878723
ENSMMUG00000000681	calmin [Source:VGNC Symbol;Acc:VGNC:71232]	-	1.250668619	2.58E-12	4.03E-11
ENSMMUG00000054267	glutaredoxin 5 [Source:NCBI gene;Acc:702989]	-	0.551231939	0.00066378	0.002498442
ENSMMUG00000003658	autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]	-	1.209223437	0.002149458	0.007072657
ENSMMUG00000051277		-	2.405682858	0.001891814	0.00634025
ENSMMUG00000003261	BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]	-	2.592637487	2.28E-42	8.67E-40
ENSMMUG00000051552		-	2.173703934	4.13E-10	4.79E-09
ENSMMUG00000061892		-	2.092369755	2.06E-19	6.66E-18
ENSMMUG00000049437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.925997106	1.10E-11	1.56E-10
ENSMMUG00000029197	YY1 transcription factor [Source:NCBI gene;Acc:717370]	-	2.233649203	1.19E-16	2.97E-15
ENSMMUG00000051100	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.072275426	1.02E-05	5.72E-05
ENSMMUG00000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	-	2.203500767	2.81E-15	6.12E-14
ENSMMUG00000005780	dynein cytoplasmic 1 heavy chain 1 [Source:VGNC Symbol;Acc:VGNC:71951]	-	0.36499602	0.000134892	0.000597148
ENSMMUG00000054990	heat shock protein 90 alpha family class A member 1 [Source:NCBI gene;Acc:708431]	-	0.468080661	0.018951572	0.046647605
ENSMMUG00000060616	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.435458616	0.009406155	0.025694858
ENSMMUG00000007135	WD repeat domain 20 [Source:VGNC Symbol;Acc:VGNC:79196]	-	0.522160627	6.14E-06	3.59E-05
ENSMMUG00000007140	MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]	-	1.879283611	1.65E-06	1.08E-05
ENSMMUG00000003483	cyclin dependent kinase 2 interacting protein [Source:VGNC Symbol;Acc:VGNC:71326]	-	-1.39491588	7.49E-11	9.64E-10
ENSMMUG00000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	-	2.169689865	1.48E-16	3.66E-15
ENSMMUG00000057818		-	2.120430529	0.001453733	0.005018358

ENSMMUG0000005845	REST corepressor 1 [Source:VGNC Symbol;Acc:VGNC:76752]	1.298210953	2.03E-07	1.55E-06
ENSMMUG0000008380	CDC42 binding protein kinase beta [Source:VGNC Symbol;Acc:VGNC:81369]	0.635332704	0.008424929	0.023375435
ENSMMUG00000029186	exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]	2.825685744	0.005654028	0.016499259
ENSMMUG00000050495		2.399648044	8.14E-06	4.65E-05
ENSMMUG00000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	2.528129411	3.53E-39	8.59E-37
ENSMMUG00000049145	creatine kinase B [Source:NCBI gene;Acc:711167]	0.848628398	2.27E-06	1.44E-05
ENSMMUG0000007673	tRNA methyltransferase 61A [Source:VGNC Symbol;Acc:VGNC:79412]	0.602984263	0.017856634	0.044357433
ENSMMUG00000029181	X-ray repair cross complementing 3 [Source:NCBI gene;Acc:695788]	0.459973224	0.00037657	0.001510556
ENSMMUG00000018121	zinc finger FYVE-type containing 21 [Source:VGNC Symbol;Acc:VGNC:79282]	0.653802404	8.55E-09	8.08E-08
ENSMMUG00000016552	inverted formin, FH2 and WH2 domain containing [Source:VGNC Symbol;Acc:VGNC:84357]	2.087839319	0.000516999	0.002002897
		-		
ENSMMUG00000052518	SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]	2.010925903	0.000203662	0.000867159
		-		
ENSMMUG00000001044	AKT serine/threonine kinase 1 [Source:VGNC Symbol;Acc:VGNC:69776]	0.844603275	0.001798475	0.006064434
ENSMMUG00000064694	AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]	3.217219093	0.000173635	0.000748766
		-		
ENSMMUG00000007517	G protein-coupled receptor 132 [Source:VGNC Symbol;Acc:VGNC:84343]	1.570797714	0.010587137	0.028391906
		-		
ENSMMUG00000065019	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.272978641	2.76E-06	1.72E-05
		-		
ENSMMUG00000022939	phosphofurin acidic cluster sorting protein 2 [Source:VGNC Symbol;Acc:VGNC:75671]	1.068314804	0.0021191	0.006991379
		-		
ENSMMUG00000007159	tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]	1.527981847	2.93E-05	0.000150339
		-		
ENSMMUG00000015202		3.314870836	6.42E-05	0.000304972
		-		
ENSMMUG00000040771		1.872190315	1.96E-05	0.000104705
		-		
ENSMMUG00000045298	immunoglobulin heavy constant mu [Source:HGNC Symbol;Acc:HGNC:5541]	0.487993774	0.010479567	0.028159447
ENSMMUG00000059525		-1.87551475	2.14E-06	1.37E-05
		-		
ENSMMUG00000055207		5.235582452	8.07E-11	1.03E-09
		-		
ENSMMUG00000060892		1.791273496	2.65E-07	1.98E-06
		-		
ENSMMUG00000064429	immunoglobulin heavy variable 1-45 [Source:HGNC Symbol;Acc:HGNC:5553]	3.342884788	0.00213894	0.007045863
		-		
ENSMMUG00000052929		4.102802409	2.44E-08	2.16E-07
		-		
ENSMMUG00000052535		4.439949115	3.69E-07	2.69E-06
		-		
ENSMMUG00000060524		1.952318137	0.003649254	0.011265288
ENSMMUG00000063346		3.571979427	0.000132677	0.000588749
ENSMMUG00000053333	acetylserotonin O-methyltransferase like [Source:NCBI gene;Acc:106995142]	4.769041757	6.88E-05	0.000324217
		-		
ENSMMUG00000007514	zinc finger BED-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79956]	1.094693987	0.009292031	0.025424506
		-		
ENSMMUG00000004985	arylsulfatase L [Source:VGNC Symbol;Acc:VGNC:81361]	2.422731729	6.28E-05	0.000299118
		-		
ENSMMUG00000038289	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.304446413	0.009013482	0.024758277
		-		
ENSMMUG00000000443	arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]	1.358275255	1.37E-09	1.47E-08
		-		
ENSMMUG00000017378	steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]	1.909327739	0.000273252	0.001128469
ENSMMUG00000008256	amelogenin X-linked [Source:NCBI gene;Acc:710057]	0.4333083	0.016013831	0.040436764

ENSMMUG00000010252	FERM and PDZ domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72802]	0.663208466	0.00434693	0.013158803
ENSMMUG00000003482	glycine receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:73075]	1.591752869	3.50E-08	3.00E-07
ENSMMUG00000015737	phosphatidylinositol glycan anchor biosynthesis class A [Source:VGNC Symbol;Acc:VGNC:75984]	1.035832363	2.50E-08	2.21E-07
ENSMMUG00000015738	vascular endothelial growth factor D [Source:VGNC Symbol;Acc:VGNC:79953]	0.990547767	0.017158552	0.042867474
ENSMMUG00000015740	pirin [Source:VGNC Symbol;Acc:VGNC:75893]	0.903892563	0.000200638	0.000855508
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	2.426543449	6.34E-16	1.47E-14
ENSMMUG00000004798	S100 calcium binding protein G [Source:VGNC Symbol;Acc:VGNC:77016]	3.388934325	0.000163004	0.000707655
ENSMMUG00000058700	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.141688239	8.07E-07	5.57E-06
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.754562912	3.78E-20	1.34E-18
ENSMMUG00000028363	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	2.87442512	0.006829834	0.019455712
ENSMMUG00000016237	taxilin gamma [Source:NCBI gene;Acc:713769]	3.396831547	2.06E-06	1.32E-05
ENSMMUG00000016238	RB binding protein 7, chromatin remodeling factor [Source:VGNC Symbol;Acc:VGNC:76678]	2.567328525	0.008021114	0.022380644
ENSMMUG00000012894	NHS actin remodeling regulator [Source:VGNC Symbol;Acc:VGNC:75348]	1.840829973	4.17E-05	0.000205794
ENSMMUG00000020515	adhesion G protein-coupled receptor G2 [Source:VGNC Symbol;Acc:VGNC:69802]	1.864647066	1.61E-06	1.05E-05
ENSMMUG00000004744	SH3 domain containing kinase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:77227]	0.276216418	0.014245954	0.036576784
ENSMMUG00000002134	ribosomal protein S6 kinase A3 [Source:VGNC Symbol;Acc:VGNC:76929]	1.037736174	0.002774701	0.008864457
ENSMMUG00000007500	connector enhancer of kinase suppressor of Ras 2 [Source:VGNC Symbol;Acc:VGNC:71223]	0.824661528	0.000336097	0.001361091
ENSMMUG00000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	1.610582815	8.51E-17	2.15E-15
ENSMMUG000000061261	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.425101209	8.77E-05	0.000405623
ENSMMUG000000042317	putative transcription factor SPT20 homolog-like 2 [Source:NCBI gene;Acc:100429227]	1.139409792	0.008172296	0.022738303
ENSMMUG000000042416		1.898299113	0.003645783	0.011256915
ENSMMUG00000012819	pyruvate dehydrogenase kinase 3 [Source:VGNC Symbol;Acc:VGNC:75934]	1.294118112	0.002081721	0.006889517
ENSMMUG00000012821	phosphate cytidyltransferase 1, choline, beta [Source:VGNC Symbol;Acc:VGNC:75790]	2.378928577	0.002106665	0.006964297
ENSMMUG00000005959	glycerol kinase [Source:NCBI gene;Acc:707531]	0.844943344	1.55E-08	1.41E-07
ENSMMUG00000005263	chromosome X CXorf38 homolog [Source:VGNC Symbol;Acc:VGNC:71600]	1.402490888	0.003580195	0.011084403
ENSMMUG00000005264	mediator complex subunit 14 [Source:VGNC Symbol;Acc:VGNC:74561]	0.476577802	0.008347601	0.023195601
ENSMMUG000000063721		0.888297403	8.26E-09	7.83E-08
ENSMMUG000000055907		0.93228238	8.51E-08	6.92E-07
ENSMMUG000000057909		2.149798329	1.18E-08	1.10E-07
ENSMMUG000000057804		1.965433152	0.000457599	0.001794816
ENSMMUG00000016391	EF-hand domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72116]	3.152766834	0.019192954	0.047124422
ENSMMUG00000003505	FUN14 domain containing 1 [Source:NCBI gene;Acc:709370]	2.438194984	0.000448791	0.001764
ENSMMUG00000003897	solute carrier family 9 member A7 [Source:NCBI gene;Acc:710906]	-0.75496538	1.38E-05	7.57E-05
ENSMMUG000000049666		1.065932116	1.14E-08	1.06E-07
ENSMMUG00000023018	RP2 activator of ARL3 GTPase [Source:VGNC Symbol;Acc:VGNC:76720]	0.911035084	0.000688176	0.00257914
ENSMMUG00000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	1.850470637	5.06E-27	3.85E-25
ENSMMUG00000019546	regucalcin [Source:VGNC Symbol;Acc:VGNC:76912]	2.149339247	6.04E-07	4.27E-06
ENSMMUG00000017423	RNA binding motif protein 10 [Source:VGNC Symbol;Acc:VGNC:76680]	1.374744573	0.016908064	0.042391646

ENSMMUG00000014002	cyclin dependent kinase 16 [Source:VGNC Symbol;Acc:VGNC:71160]	-1.35536201	0.000384501	0.001536553
ENSMMUG00000016608	ubiquitin specific peptidase 11 [Source:VGNC Symbol;Acc:VGNC:78734]	-1.41340256	0.011780365	0.031189835
ENSMMUG00000008566	zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]	1.229631131	2.35E-12	3.70E-11
ENSMMUG00000010404	zinc finger protein 41 [Source:VGNC Symbol;Acc:VGNC:78900]	1.035874633	2.63E-05	0.000135998
ENSMMUG00000014066	zinc finger protein 81 [Source:VGNC Symbol;Acc:VGNC:78908]	1.028178465	0.007478455	0.021036701
ENSMMUG00000056352	putative protein SSX9 [Source:NCBI gene;Acc:709251]	1.990686966	0.012330258	0.032438838
ENSMMUG00000018894	FtsJ RNA 2'-O-methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:72716]	1.787353956	0.009623823	0.026172986
ENSMMUG00000019768	suppressor of variegation 3-9 homolog 1 [Source:VGNC Symbol;Acc:VGNC:78061]	0.912153893	6.86E-05	0.000323485
ENSMMUG00000063882	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.644375971	0.019684434	0.048195503
ENSMMUG00000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	1.055922332	8.87E-21	3.43E-19
ENSMMUG00000060865	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.216804244	0.000114834	0.000515899
ENSMMUG00000016469	proprotein convertase subtilisin/kexin type 1 inhibitor [Source:VGNC Symbol;Acc:VGNC:75639]	2.560170682	7.74E-06	4.44E-05
ENSMMUG00000053345	Pim-2 proto-oncogene, serine/threonine kinase [Source:NCBI gene;Acc:711844]	1.048982342	0.000627832	0.00237883
ENSMMUG00000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	1.531373193	2.50E-22	1.16E-20
ENSMMUG00000010617	coiled-coil domain containing 120 [Source:VGNC Symbol;Acc:VGNC:70664]	0.610953444	0.000414656	0.001645971
ENSMMUG00000055688	PRA1 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:28911]	0.561152438	0.014519239	0.037220451
ENSMMUG00000023024	prickle planar cell polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:76361]	0.700719311	0.001124368	0.004002493
ENSMMUG00000023025	synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]	0.968671997	6.86E-10	7.74E-09
ENSMMUG00000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	1.164417631	1.70E-21	7.13E-20
ENSMMUG00000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	1.501864862	2.72E-23	1.40E-21
ENSMMUG00000008624	forkhead box P3 [Source:VGNC Symbol;Acc:VGNC:72926]	1.705996208	0.000500004	0.001945189
ENSMMUG00000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	2.202267896	1.94E-31	2.06E-29
ENSMMUG00000060311	G antigen 10-like [Source:NCBI gene;Acc:114674954]	0.524767017	0.00174085	0.005886185
ENSMMUG00000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.626613503	1.23E-15	2.75E-14
ENSMMUG00000026584	Y RNA [Source:RFAM;Acc:RF00019]	2.387313289	0.000194704	0.00083212
ENSMMUG00000056042	Y RNA [Source:RFAM;Acc:RF00019]	2.79178904	0.017415277	0.043399186
ENSMMUG00000023060	A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]	2.356642619	1.21E-09	1.31E-08
ENSMMUG00000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	2.342114338	6.25E-24	3.42E-22
ENSMMUG00000049267		3.565611725	1.13E-16	2.82E-15
ENSMMUG00000050420	centromere protein V-like protein 1 [Source:NCBI gene;Acc:717718]	1.235973137	0.007375871	0.02076783
ENSMMUG00000020202	melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]	-1.95598819	2.03E-06	1.30E-05
ENSMMUG00000062319		2.763752502	0.015706789	0.039769793
ENSMMUG00000012073	X antigen family member 1-like [Source:NCBI gene;Acc:106996044]	0.821044286	7.40E-06	4.27E-05
ENSMMUG00000046218	X antigen family member 5 [Source:NCBI gene;Acc:114669729]	1.828861991	3.49E-06	2.13E-05
ENSMMUG00000003251	X antigen family member 3 [Source:NCBI gene;Acc:698267]	0.67249885	0.003311499	0.010354106
ENSMMUG00000053262		0.471859634	0.014758741	0.037743081
ENSMMUG00000020553	lysine demethylase 5C [Source:VGNC Symbol;Acc:VGNC:73816]	0.409384877	0.013668507	0.035410065
ENSMMUG00000020555	IQ motif and Sec7 domain ArfGEF 2 [Source:VGNC Symbol;Acc:VGNC:73676]	0.471542387	0.000611548	0.002321878
ENSMMUG00000050146		0.966619131	0.017863143	0.044366172

ENSMMUG00000047741	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.051317223	2.69E-07	2.01E-06
ENSMMUG00000005433	WNK lysine deficient protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:78962]	-	0.512487105	0.003486795	0.010825068
ENSMMUG00000008422	trophinin [Source:NCBI gene;Acc:704512]	-	0.635999323	0.000745359	0.002761347
ENSMMUG00000059922	family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]	-	2.579683512	2.74E-05	0.000141456
ENSMMUG00000051670		-	2.515824419	3.78E-12	5.77E-11
ENSMMUG00000054377		-	1.313699932	3.21E-23	1.64E-21
ENSMMUG00000063913	endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]	-	4.257924905	3.83E-09	3.84E-08
ENSMMUG00000059335		-	4.823618504	6.07E-07	4.29E-06
ENSMMUG00000004309	APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]	-	5.200083771	1.93E-07	1.48E-06
ENSMMUG00000065109	ankyrin repeat and SOCS box containing 12 [Source:NCBI gene;Acc:707931]	-	3.658302181	0.000808568	0.002971763
ENSMMUG00000065001		-	0.362726284	0.007289326	0.020563192
ENSMMUG00000061393	OTU deubiquitinase 6A [Source:NCBI gene;Acc:694498]	-	1.543983078	0.013983147	0.036070633
ENSMMUG00000054817	immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]	-	1.371655528	0.001500853	0.005161791
ENSMMUG00000013934	pyrimidinergic receptor P2Y4 [Source:VGNC Symbol;Acc:VGNC:75739]	-	1.651783147	0.001518991	0.005213292
ENSMMUG00000013935	arrestin 3 [Source:VGNC Symbol;Acc:VGNC:70020]	-	1.354010329	0.005431329	0.0159372
ENSMMUG00000013937	RAB41, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81544]	-	-2.1418887	2.95E-07	2.18E-06
ENSMMUG00000061295	PDZ domain containing 11 [Source:NCBI gene;Acc:695458]	-	1.389390558	1.50E-07	1.18E-06
ENSMMUG00000013940	kinesin family member 4A [Source:NCBI gene;Acc:695574]	-	1.619831689	3.36E-05	0.000169761
ENSMMUG00000013943	glycerophosphodiester phosphodiesterase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72787]	-	2.267224104	1.17E-07	9.36E-07
ENSMMUG00000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	-	-3.35608044	3.73E-09	3.74E-08
ENSMMUG00000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	-	1.96555259	3.28E-21	1.34E-19
ENSMMUG00000032427	neuroligin 3 [Source:NCBI gene;Acc:574216]	-	1.937208462	3.59E-14	6.96E-13
ENSMMUG00000000669	gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]	-	2.497605949	6.08E-06	3.56E-05
ENSMMUG00000000667	zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]	-	2.241133731	1.03E-10	1.30E-09
ENSMMUG00000056450		-	1.735622955	0.017105985	0.042773913
ENSMMUG00000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]	-	2.166191131	6.31E-29	5.64E-27
ENSMMUG00000011469	germ cell nuclear acidic peptidase [Source:VGNC Symbol;Acc:VGNC:72724]	-	2.794269414	2.28E-05	0.00011974
ENSMMUG00000021924	NHS like 2 [Source:NCBI gene;Acc:702808]	-	0.737073415	8.71E-12	1.26E-10
ENSMMUG00000055786	peptidylprolyl cis/trans isomerase, NIMA-interacting 4 [Source:NCBI gene;Acc:699273]	-	3.295448432	0.004337471	0.013135532
ENSMMUG00000057710	DMRT like family C1B [Source:NCBI gene;Acc:704619]	-	-1.55475554	0.010333478	0.027842565
ENSMMUG00000054132		-	2.014622239	0.014060991	0.036221036
ENSMMUG00000063858		-	0.391349239	0.005202726	0.01533925
ENSMMUG00000009249	ring finger protein, LIM domain interacting [Source:NCBI gene;Acc:703471]	-	0.791618972	1.13E-10	1.42E-09

ENSMMUG00000053505	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.256246425	0.000789416	0.002912924
ENSMMUG00000017660		1.900746347	1.25E-20	4.76E-19
ENSMMUG00000011440	neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]	1.896736451	3.97E-10	4.61E-09
ENSMMUG00000015619	ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]	1.628163822	3.37E-11	4.52E-10
ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	2.010754376	2.18E-14	4.33E-13
ENSMMUG00000014407	magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]	1.167777072	4.48E-12	6.75E-11
ENSMMUG00000027544	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.989378556	0.004997175	0.014845373
ENSMMUG00000015861	cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]	1.340433876	5.38E-13	9.20E-12
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	1.704322402	8.08E-14	1.52E-12
ENSMMUG00000052073		1.535689663	2.58E-13	4.53E-12
ENSMMUG00000054447	T-box transcription factor 22 [Source:NCBI gene;Acc:708338]	-1.15658465	0.003316286	0.010366445
ENSMMUG00000008212	tenomodulin [Source:VGNC Symbol;Acc:VGNC:79087]	1.372069831	0.000235325	0.00098865
ENSMMUG00000008210	sushi repeat containing protein X-linked 2 [Source:NCBI gene;Acc:700756]	0.614966919	0.01494221	0.038146491
ENSMMUG00000013008	cleavage stimulation factor subunit 2 [Source:VGNC Symbol;Acc:VGNC:71536]	1.926237053	5.24E-07	3.73E-06
ENSMMUG00000004178	NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]	2.414045542	3.53E-11	4.74E-10
ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]	1.245717187	5.74E-12	8.52E-11
ENSMMUG00000007601	centromere protein I [Source:NCBI gene;Acc:702316]	0.679201801	0.005422294	0.015913837
ENSMMUG00000022281	family with sequence similarity 199, X-linked [Source:NCBI gene;Acc:699523]	2.177869335	0.000897582	0.003257742
ENSMMUG00000006684	testis expressed 13A [Source:VGNC Symbol;Acc:VGNC:78317]	2.226163201	0.007955615	0.02221879
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	1.666698707	1.64E-23	8.76E-22
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.718138443	8.47E-22	3.73E-20
ENSMMUG00000022293	FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]	0.918203458	1.42E-09	1.53E-08
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	1.340124411	7.26E-19	2.24E-17
ENSMMUG00000007688	angiominin [Source:VGNC Symbol;Acc:VGNC:69627]	4.486819724	7.78E-06	4.45E-05
ENSMMUG00000006377	plastin 3 [Source:VGNC Symbol;Acc:VGNC:76181]	0.902128869	0.000776918	0.002871092
ENSMMUG00000055906	angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]	2.157222867	8.25E-07	5.68E-06
ENSMMUG00000026243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.650604455	0.000468307	0.001832936
ENSMMUG00000057063	solute carrier family 6 member 14 [Source:NCBI gene;Acc:709598]	2.189764382	0.000286329	0.001174424
ENSMMUG00000008818	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 [Source:VGNC Symbol;Acc:VGNC:77646]	0.983997875	0.009119372	0.025002825
ENSMMUG00000059153		0.814057646	0.001320086	0.004612836
ENSMMUG00000020700	UTP14A small subunit processome component [Source:NCBI gene;Acc:703510]	0.859887539	0.00815852	0.022721286
ENSMMUG00000008781	BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]	1.070373957	1.44E-06	9.51E-06
ENSMMUG00000063900	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.197923633	0.002933698	0.009320211
ENSMMUG00000004954	apoptosis inducing factor mitochondria associated 1 [Source:VGNC Symbol;Acc:VGNC:69820]	1.243844433	1.58E-09	1.68E-08
ENSMMUG00000049309	RAB33A, member RAS oncogene family [Source:NCBI gene;Acc:703002]	1.412053249	0.002116219	0.006984984
ENSMMUG00000003479	FERM domain containing 7 [Source:VGNC Symbol;Acc:VGNC:72927]	-0.89988654	0.006666192	0.019044429
ENSMMUG00000025616		-2.33338387	0.006926091	0.019699643

ENSMMUG0000003456	glypican 4 [Source:VGNC Symbol;Acc:VGNC:73118]	-	0.424353019	0.01147689	0.030480352
ENSMMUG00000032341	coiled-coil domain containing 160 [Source:VGNC Symbol;Acc:VGNC:70926]	-	0.632029926	3.43E-07	2.51E-06
ENSMMUG00000059560		-	0.771743874	0.002363715	0.007695697
ENSMMUG0000000466	AF4/FMR2 family member 2 [Source:VGNC Symbol;Acc:VGNC:69773]	-	0.582952591	1.76E-05	9.50E-05
ENSMMUG00000022371	myotubularin 1 [Source:VGNC Symbol;Acc:VGNC:75071]	-	-2.39389413	0.014413181	0.03696774
ENSMMUG00000016610	CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]	-	1.939368744	8.59E-10	9.50E-09
ENSMMUG00000016929	proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]	-	2.256459409	1.47E-08	1.34E-07
ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	-	1.21623626	1.28E-18	3.89E-17
ENSMMUG00000062628		-	1.483123193	1.96E-08	1.76E-07
ENSMMUG00000057473		-	0.782218645	0.002004602	0.006671509
ENSMMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]	-	1.489533838	5.59E-19	1.73E-17
ENSMMUG00000039292		-	1.959455501	2.37E-17	6.41E-16
ENSMMUG00000062063	melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]	-	2.207126861	1.16E-35	2.04E-33
ENSMMUG00000037641	chondrosarcoma-associated gene 2/3 protein [Source:NCBI gene;Acc:106992305]	-	2.278508067	0.000549134	0.002115786
ENSMMUG00000058013	melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]	-	2.081526023	1.45E-14	2.97E-13
ENSMMUG00000040071		-	2.230997416	3.51E-06	2.14E-05
ENSMMUG00000020743	centrin 2 [Source:NCBI gene;Acc:693376]	-	1.479263735	0.01425633	0.036597086
ENSMMUG00000013176	NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]	-	2.468756761	5.97E-12	8.83E-11
ENSMMUG00000010897	PNMA family member 3 [Source:VGNC Symbol;Acc:VGNC:76063]	-	0.835810716	6.67E-07	4.68E-06
ENSMMUG00000064249		-	1.283037297	0.015903895	0.04022766
ENSMMUG00000041072		-	1.160991431	0.00359381	0.011117271
ENSMMUG00000061278		-	1.321451237	1.12E-06	7.54E-06
ENSMMUG00000010137	microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]	-	2.545606303	1.42E-06	9.37E-06
ENSMMUG00000010139	angiopoietin 2 [Source:VGNC Symbol;Acc:VGNC:69811]	-	3.328935636	0.005443228	0.015965796
ENSMMUG00000053229	defensin beta 1 [Source:NCBI gene;Acc:574187]	-	2.829665234	0.013014921	0.033921137
ENSMMUG00000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	-	2.914260578	6.76E-29	5.97E-27
ENSMMUG00000063525		-	2.884966585	1.58E-16	3.88E-15
ENSMMUG00000061302		-	2.370376847	0.006853574	0.019512095
ENSMMUG00000054960		-	2.229506364	7.73E-13	1.30E-11
ENSMMUG00000027220	microRNA 598 [Source:HGNC Symbol;Acc:HGNC:32854]	-	2.577124616	0.007116394	0.02015202
ENSMMUG00000010180	PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	-	2.413329962	9.70E-14	1.81E-12
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]	-	-2.47219715	2.33E-05	0.000121864
ENSMMUG00000055078	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	-	2.802239545	0.014033382	0.036156194
ENSMMUG00000007068	tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]	-	3.802132223	3.51E-07	2.56E-06
ENSMMUG00000001873	CCR4-NOT transcription complex subunit 7 [Source:VGNC Symbol;Acc:VGNC:83990]	-	2.521453715	0.016220941	0.040917938
ENSMMUG00000022303	solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]	-	0.762062462	4.25E-09	4.22E-08
ENSMMUG00000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	-	2.03632505	4.11E-28	3.38E-26
ENSMMUG00000005920	N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]	-	3.029765914	5.57E-06	3.28E-05
ENSMMUG00000011774	integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	-	1.440869402	5.84E-34	8.90E-32
ENSMMUG00000023361	GDNF family receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:72918]	-	0.862634016	0.00045174	0.001774652
ENSMMUG00000002032	exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]	-	1.213808068	8.51E-06	4.84E-05
ENSMMUG00000063764		-	1.831270723	0.000457315	0.001794176

ENSMMUG00000013028	leucine rich repeat LGI family member 3 [Source:VGNC Symbol;Acc:VGNC:74079]	1.261838021	0.018193753	0.045063964
ENSMMUG00000013029	surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]	2.415544552	2.30E-11	3.14E-10
ENSMMUG00000013031	bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]	1.115662245	1.35E-08	1.24E-07
ENSMMUG00000013032	phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]	1.328676588	2.32E-09	2.40E-08
ENSMMUG00000023226	RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]	1.119632292	3.81E-12	5.80E-11
ENSMMUG00000052651	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.319919042	1.51E-08	1.37E-07
ENSMMUG00000014438	piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]	1.169667145	5.89E-14	1.13E-12
ENSMMUG00000017713	solute carrier family 39 member 14 [Source:VGNC Symbol;Acc:VGNC:77537]	0.696216251	0.019629711	0.048073672
ENSMMUG00000018345	phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	2.457886641	2.68E-26	1.84E-24
ENSMMUG00000050868		1.568297221	0.001422538	0.004924345
ENSMMUG00000007540	Rho related BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76772]	1.265134949	2.51E-07	1.89E-06
ENSMMUG00000048076	TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650]	1.509806681	1.47E-14	3.01E-13
ENSMMUG00000016655	R3H domain and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:76551]	1.526574689	1.28E-07	1.02E-06
ENSMMUG00000056749	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.445296967	1.76E-06	1.15E-05
ENSMMUG00000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	2.633165623	3.28E-27	2.55E-25
ENSMMUG00000046186	stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]	2.948967302	0.000160048	0.000695637
ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	2.122213072	1.73E-23	9.18E-22
ENSMMUG00000056605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.46873202	1.81E-05	9.70E-05
ENSMMUG00000008028	dedicator of cytokinesis 5 [Source:VGNC Symbol;Acc:VGNC:83995]	0.725653372	0.00146784	0.005058812
ENSMMUG00000059181		1.163211778	3.44E-05	0.000173236
ENSMMUG00000016019	PDZ binding kinase [Source:VGNC Symbol;Acc:VGNC:75643]	2.306239829	0.005585978	0.016329599
ENSMMUG00000022044	scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]	1.130650258	8.86E-14	1.66E-12
ENSMMUG00000005067	elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]	2.034170302	2.01E-10	2.45E-09
ENSMMUG00000007480	F-box protein 16 [Source:NCBI gene;Acc:106999728]	0.924638084	7.59E-05	0.00035471
ENSMMUG00000017700	exostosin like glycosyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:72452]	0.780406482	0.00066074	0.002489526
ENSMMUG00000014981	homeobox containing 1 [Source:VGNC Symbol;Acc:VGNC:73443]	0.915050198	5.48E-07	3.89E-06
ENSMMUG00000039515	kinesin family member 13B [Source:NCBI gene;Acc:100429368]	1.746615272	0.000324452	0.001318615
ENSMMUG00000000458	RNA binding protein, mRNA processing factor [Source:VGNC Symbol;Acc:VGNC:76510]	0.811024236	0.00023604	0.000991075
ENSMMUG00000064702		1.784235741	0.000839417	0.003072957
ENSMMUG00000020819	protein phosphatase 2 catalytic subunit beta [Source:VGNC Symbol;Acc:VGNC:76373]	1.557958483	0.000530271	0.002048427
ENSMMUG00000061408		2.850041195	0.000101775	0.000464595
ENSMMUG00000063345		3.228311217	8.71E-07	5.97E-06
ENSMMUG00000010638	unc-5 netrin receptor D [Source:VGNC Symbol;Acc:VGNC:79158]	2.183316922	0.018450681	0.045603932
ENSMMUG00000034978	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.340952609	0.003517572	0.01090874
ENSMMUG00000001635	zinc finger protein 703 [Source:VGNC Symbol;Acc:VGNC:79552]	1.00643866	5.06E-05	0.00024581
ENSMMUG00000051162		1.946199032	0.018006792	0.044696488
ENSMMUG00000003591	pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]	2.116374316	9.27E-10	1.02E-08

ENSMMUG0000006037	HtrA serine peptidase 4 [Source:VGNC Symbol;Acc:VGNC:73447]	3.14995069	0.006952006	0.01976198
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	3.113225682	6.58E-21	2.56E-19
ENSMMUG00000000346	succinate dehydrogenase cytochrome b560 subunit, mitochondrial [Source:NCBI gene;Acc:702309]	2.63972011	0.005473215	0.016041063
ENSMMUG00000019306	indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]	3.349937185	4.83E-07	3.46E-06
ENSMMUG00000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]	1.182248663	6.43E-08	5.34E-07
		-		
ENSMMUG00000019082	secreted frizzled related protein 1 [Source:VGNC Symbol;Acc:VGNC:77185]	0.325957988	0.018531162	0.045749482
		-		
ENSMMUG00000014721	glycerol-3-phosphate acyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:84002]	1.113687713	9.36E-05	0.000429893
		-		
ENSMMUG00000010891	lysine acetyltransferase 6A [Source:VGNC Symbol;Acc:VGNC:73821]	1.284748174	1.91E-06	1.23E-05
ENSMMUG00000014431	adaptor related protein complex 3 subunit mu 2 [Source:VGNC Symbol;Acc:VGNC:69971]	0.525646228	5.63E-05	0.000270409
ENSMMUG00000014432	plasminogen activator, tissue type [Source:VGNC Symbol;Acc:VGNC:76161]	0.722313199	8.14E-09	7.73E-08
ENSMMUG00000020185	voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]	1.912323561	5.09E-06	3.02E-05
ENSMMUG00000020186	solute carrier family 20 member 2 [Source:VGNC Symbol;Acc:VGNC:77416]	1.335218714	0.000427403	0.001690237
ENSMMUG00000053488	small integral membrane protein 19 [Source:NCBI gene;Acc:705371]	0.930581885	5.29E-09	5.17E-08
ENSMMUG00000053422		0.523044333	0.000153124	0.000668481
ENSMMUG00000062518		1.724961188	0.00038931	0.001554515
		-		
ENSMMUG00000002781	peroxidase like [Source:VGNC Symbol;Acc:VGNC:84107]	0.400466959	0.006234778	0.017978175
ENSMMUG00000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	2.199896339	8.56E-26	5.45E-24
ENSMMUG00000025039	Small nucleolar RNA SNORA73 family [Source:RFAM;Acc:RF00045]	3.649110687	0.001164069	0.004127965
ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	1.393445485	2.20E-07	1.67E-06
ENSMMUG00000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	1.340334778	1.37E-24	7.91E-23
ENSMMUG00000055121	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.761486832	3.65E-18	1.07E-16
		-		
ENSMMUG00000039862	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.788471508	0.001131854	0.00402624
		-		
ENSMMUG00000061268	PLAG1 zinc finger [Source:NCBI gene;Acc:696149]	2.135135795	3.39E-12	5.22E-11
		-		
ENSMMUG00000046464	coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]	2.394198805	2.04E-15	4.49E-14
		-		
ENSMMUG00000061068		1.743390501	6.41E-09	6.19E-08
		-		
ENSMMUG00000014810	short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]	1.899942992	1.49E-19	4.92E-18
		-		
ENSMMUG00000052791		2.476864214	6.29E-21	2.47E-19
		-		
ENSMMUG00000006775	proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]	2.222454651	1.50E-14	3.08E-13
		-		
ENSMMUG00000006543	cytochrome P450, family 7, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:698127]	3.569834334	0.003399746	0.010593475
ENSMMUG00000017038	RAB2A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81529]	0.547594668	0.000636096	0.002407684
		-		
ENSMMUG00000006729	YTH N6-methyladenosine RNA binding protein 3 [Source:VGNC Symbol;Acc:VGNC:79614]	1.208221884	0.001963054	0.0065494
		-		
ENSMMUG00000059575		2.465484538	1.65E-26	1.18E-24
		-		
ENSMMUG00000038661		2.779353832	2.42E-23	1.26E-21
ENSMMUG00000049866		0.801725021	1.89E-05	0.000100903
		-		
ENSMMUG00000014424	ADP ribosylation factor guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:69834]	1.604566552	0.004698878	0.014089033
		-		
ENSMMUG00000008783	solute carrier organic anion transporter family member 5A1 [Source:VGNC Symbol;Acc:VGNC:77736]	2.121111982	0.017106681	0.042773913
		-		
ENSMMUG00000012513	lactamase beta 2 [Source:VGNC Symbol;Acc:VGNC:74072]	1.242748664	0.000303515	0.001239296

ENSMMUG00000045333	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.620442427	0.001888772	0.006332917
ENSMMUG0000007576	EYA transcriptional coactivator and phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:72453]	-	0.741682462	3.92E-11	5.23E-10
ENSMMUG00000010748	transient receptor potential cation channel subfamily A member 1 [Source:VGNC Symbol;Acc:VGNC:78429]	-	-1.04812775	0.000218441	0.000923457
ENSMMUG00000053156		-	1.339266553	0.000396149	0.001580122
ENSMMUG00000019414	zinc finger homeobox 4 [Source:VGNC Symbol;Acc:VGNC:79902]	-	0.836426591	0.012777265	0.033407412
ENSMMUG00000060062		-	2.073620025	0.019499822	0.047798738
ENSMMUG00000064054		-	2.303012556	0.000781819	0.002887765
ENSMMUG00000000507	stathmin 2 [Source:VGNC Symbol;Acc:VGNC:78038]	-	1.030138721	0.003165418	0.00995613
ENSMMUG00000007115	RALY RNA binding protein like [Source:VGNC Symbol;Acc:VGNC:82217]	-	1.097673735	0.001974577	0.006583404
ENSMMUG00000028699		-	1.555585512	5.51E-05	0.00026523
ENSMMUG00000063555		-	1.994370865	8.23E-05	0.00038228
ENSMMUG00000028701		-	1.557626047	1.81E-08	1.63E-07
ENSMMUG00000013193	matrix metalloproteinase 16 [Source:VGNC Symbol;Acc:VGNC:74894]	-	0.898961533	3.15E-08	2.73E-07
ENSMMUG00000020010	cadherin 17 [Source:VGNC Symbol;Acc:VGNC:70810]	-	3.589905208	0.016110971	0.040661282
ENSMMUG00000021112	epithelial splicing regulatory protein 1 [Source:VGNC Symbol;Acc:VGNC:72358]	-	1.066515329	4.72E-08	3.98E-07
ENSMMUG00000005356	integrator complex subunit 8 [Source:VGNC Symbol;Acc:VGNC:73657]	-	2.47025133	7.57E-06	4.36E-05
ENSMMUG00000057219	tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]	-	3.861751662	7.39E-11	9.52E-10
ENSMMUG00000003878	carboxypeptidase Q [Source:VGNC Symbol;Acc:VGNC:71426]	-	1.187700143	0.002814456	0.008975996
ENSMMUG00000055454		-	0.634598104	3.77E-07	2.74E-06
ENSMMUG00000060329		-	0.65390074	0.000106512	0.000483493
ENSMMUG00000061917		-	0.679880055	0.000148796	0.000651698
ENSMMUG00000014210	metadherin [Source:VGNC Symbol;Acc:VGNC:74859]	-	0.618971173	9.25E-05	0.000425634
ENSMMUG00000008926	lysosomal protein transmembrane 4 beta [Source:VGNC Symbol;Acc:VGNC:84010]	-	0.585988408	6.11E-05	0.000291701
ENSMMUG00000060771		-	0.533947991	0.006399768	0.018386006
ENSMMUG00000020072	matrilin 2 [Source:VGNC Symbol;Acc:VGNC:74665]	-	0.435462822	0.002973697	0.009426871
ENSMMUG00000053292	POP1 homolog, ribonuclease P/MRP subunit [Source:NCBI gene;Acc:705643]	-	0.364185026	0.006053915	0.017521383
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	-	1.543549804	4.53E-10	5.23E-09
ENSMMUG00000022186	vacuolar protein sorting 13 homolog B [Source:VGNC Symbol;Acc:VGNC:79339]	-	0.472204017	0.000585873	0.002234696
ENSMMUG00000046389	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.997468694	0.011234992	0.029934588
ENSMMUG00000013742	regulator of G protein signaling 22 [Source:VGNC Symbol;Acc:VGNC:82221]	-	1.862071895	0.002033464	0.006749856
ENSMMUG00000064531	RNA polymerase II subunit K [Source:NCBI gene;Acc:708464]	-	3.075915434	0.005120066	0.015143713
ENSMMUG00000004386	sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]	-	2.608718736	0.0001282	0.000570601
ENSMMUG00000061687		-	2.349461508	1.80E-05	9.65E-05
ENSMMUG00000004387	ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]	-	1.786960202	1.76E-07	1.36E-06
ENSMMUG00000051088		-	-2.21874124	1.38E-06	9.17E-06

ENSMMUG0000009958	ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]	-	2.448160772	5.19E-10	5.94E-09
ENSMMUG00000034608	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.079200843	6.38E-05	0.000303268
ENSMMUG00000017786	poly(A) binding protein cytoplasmic 1 [Source:VGNC Symbol;Acc:VGNC:84098]	-	0.313155696	0.006206852	0.017904614
ENSMMUG00000051999		-	1.360959244	8.92E-05	0.000411529
ENSMMUG00000001338	antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]	-	4.033712213	2.03E-06	1.30E-05
ENSMMUG00000040361	ATPase H+ transporting V1 subunit C1 [Source:NCBI gene;Acc:693840]	-	2.111926316	9.19E-05	0.000422659
ENSMMUG00000052440		-	4.652006116	2.77E-05	0.00014269
ENSMMUG00000054357		-	2.960209342	0.000610146	0.002318452
ENSMMUG00000056520		-	2.760160261	0.006699665	0.019129001
ENSMMUG00000010744		-	1.881451082	0.00215865	0.00709798
ENSMMUG00000011359	eukaryotic translation initiation factor 3 subunit E [Source:VGNC Symbol;Acc:VGNC:83997]	-	1.053018791	5.13E-05	0.000248559
ENSMMUG00000003435	transcriptional repressor GATA binding 1 [Source:VGNC Symbol;Acc:VGNC:78656]	-	0.704349233	0.001517276	0.005208613
ENSMMUG00000001087		-	0.870301403	0.013669765	0.035410065
ENSMMUG00000056417		-	1.653186257	0.006035891	0.017476036
ENSMMUG00000002068	mediator complex subunit 30 [Source:VGNC Symbol;Acc:VGNC:74556]	-	3.080167824	0.010405971	0.027987042
ENSMMUG00000004846	sterile alpha motif domain containing 12 [Source:VGNC Symbol;Acc:VGNC:77145]	-	0.883184421	0.013735748	0.035543734
ENSMMUG00000053962		-	1.172935125	0.003250314	0.010203673
ENSMMUG00000024448		-	2.138119328	0.002915331	0.009271791
ENSMMUG00000057685	Small nucleolar RNA SNORD55/SNORD39 [Source:RFAM;Acc:RF00157]	-	1.865961563	0.010855024	0.029010634
ENSMMUG00000014702	TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]	-	0.935673573	0.000960568	0.003471057
ENSMMUG00000058797		-	0.909519213	1.69E-08	1.53E-07
ENSMMUG00000052557		-	0.381705647	0.000237672	0.000997298
ENSMMUG00000021157	TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]	-	2.24884845	0.003339787	0.010433757
ENSMMUG00000020467	ATPase family AAA domain containing 2 [Source:VGNC Symbol;Acc:VGNC:70154]	-	0.324886373	0.015766589	0.03990758
ENSMMUG00000028923	WDYHV motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79503]	-	0.38335169	0.002159069	0.00709798
ENSMMUG00000047542	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	1.592438217	0.001280952	0.004493025
ENSMMUG00000059929	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	-	2.058123067	0.002937707	0.00932895
ENSMMUG00000016375	fer-1 like family member 6 [Source:VGNC Symbol;Acc:VGNC:72585]	-	-0.47411819	0.000165415	0.00071707
ENSMMUG00000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	-	2.694151081	2.80E-16	6.71E-15
ENSMMUG00000053001		-	2.618498198	0.000991372	0.003575402
ENSMMUG00000060708		-	0.85579658	0.001648289	0.005598748
ENSMMUG00000010440	adenylate cyclase 8 [Source:VGNC Symbol;Acc:VGNC:69516]	-	0.949672643	1.17E-05	6.48E-05
ENSMMUG00000058106	otoconin 90 [Source:NCBI gene;Acc:100429699]	-	1.532624994	2.13E-24	1.20E-22

ENSMMUG00000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]	1.911490324	6.25E-22	2.78E-20
ENSMMUG00000055934		0.64022294	0.001515267	0.005202918
ENSMMUG00000048066	trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]	1.364154551	1.73E-09	1.83E-08
ENSMMUG00000062257		-	-	-
ENSMMUG00000062257		1.506388984	0.004819643	0.014401634
ENSMMUG00000052421		-	-	-
ENSMMUG00000052421		0.952087665	0.002422744	0.007868878
ENSMMUG00000059617		-	-	-
ENSMMUG00000059617		1.243790527	1.93E-08	1.74E-07
ENSMMUG00000041901	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-	-
ENSMMUG00000041901		2.383242038	0.010397868	0.027970321
ENSMMUG00000001432	t-SNARE domain containing 1 [Source:NCBI gene;Acc:701269]	-	-	-
ENSMMUG00000001432		0.844561214	2.32E-07	1.75E-06
ENSMMUG00000062642		-	-	-
ENSMMUG00000062642		1.345280034	4.53E-09	4.47E-08
ENSMMUG00000049486		-	-	-
ENSMMUG00000049486		0.725453082	0.014226306	0.036538988
ENSMMUG00000000959	cytochrome P450, family 11, subfamily B, polypeptide 2 [Source:NCBI gene;Acc:695914]	-	-	-
ENSMMUG00000000959		0.65825002	0.000105089	0.000477618
ENSMMUG00000018500	ZFP41 zinc finger protein [Source:NCBI gene;Acc:106999981]	0.631280274	0.017149869	0.042853002
ENSMMUG00000022933	DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]	1.275611712	3.84E-17	1.01E-15
ENSMMUG00000059932	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.346133351	0.000222103	0.000937066
ENSMMUG00000010939		-	-	-
ENSMMUG00000010939	rhopilin Rho GTPase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76779]	0.757329507	6.80E-07	4.76E-06
ENSMMUG00000001187	mitogen-activated protein kinase 15 [Source:VGNC Symbol;Acc:VGNC:74570]	1.169077432	0.011334099	0.030171368
ENSMMUG000000057609		-	-	-
ENSMMUG000000057609		0.553097386	0.018392997	0.045476517
ENSMMUG00000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	-	-	-
ENSMMUG00000013552		1.187332914	2.21E-18	6.59E-17
ENSMMUG00000013558	poly(U) binding splicing factor 60 [Source:VGNC Symbol;Acc:VGNC:84106]	-	-	-
ENSMMUG00000013558		0.802735696	0.003208512	0.010085254
ENSMMUG00000028891	nuclear receptor binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75437]	1.336959947	0.00873515	0.024105373
ENSMMUG00000063093	epiplakin 1 [Source:NCBI gene;Acc:699265]	0.457545635	2.02E-06	1.30E-05
ENSMMUG00000000388		-	-	-
ENSMMUG00000000388	plectin [Source:VGNC Symbol;Acc:VGNC:76173]	0.627735949	6.08E-05	0.00029016
ENSMMUG00000060194	mml-mir-661 [Source:miRBase;Acc:MI0007902]	-	-	-
ENSMMUG00000060194		2.076913412	0.001478425	0.005090559
ENSMMUG00000061025		-	-	-
ENSMMUG00000061025		3.453015588	0.002682736	0.008604018
ENSMMUG00000052917		-	-	-
ENSMMUG00000052917		0.451572328	0.004443254	0.013406604
ENSMMUG00000021279	zinc finger MYND-type containing 11 [Source:VGNC Symbol;Acc:VGNC:79060]	0.571566427	2.24E-06	1.43E-05
ENSMMUG00000050907		-	-	-
ENSMMUG00000050907		1.177399919	3.52E-10	4.10E-09
ENSMMUG00000049588		-	-	-
ENSMMUG00000049588		1.269424907	0.012001385	0.03168041
ENSMMUG00000049879		-	-	-
ENSMMUG00000049879		3.390618872	0.017867267	0.044368984
ENSMMUG00000053106		-	-	-
ENSMMUG00000053106		2.871898159	2.32E-22	1.08E-20
ENSMMUG00000023282	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]	2.442805423	2.14E-20	7.83E-19
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	2.734714473	3.79E-32	4.50E-30
ENSMMUG00000063267		-	-	-
ENSMMUG00000063267	aldo-keto reductase family 1 member C15 [Source:NCBI gene;Acc:722496]	1.451446533	8.56E-05	0.000396751
ENSMMUG00000001290	ankyrin repeat and SOCS box containing 13 [Source:VGNC Symbol;Acc:VGNC:69865]	-3.76542129	7.62E-05	0.000355776
ENSMMUG00000015141		-	-	-
ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]	2.358808067	2.99E-07	2.22E-06

ENSMMUG00000015143	F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]	2.159281401	1.38E-08	1.27E-07
ENSMMUG00000056045		-2.53568365	1.63E-09	1.73E-08
ENSMMUG00000015149	interleukin 15 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73711]	2.148078488	0.000146119	0.000640918
ENSMMUG00000015151	interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]	2.285317556	4.77E-10	5.49E-09
ENSMMUG00000054646		3.954959026	0.000103377	0.000470848
ENSMMUG00000061189		0.654035261	5.96E-05	0.000285226
ENSMMUG00000052242		0.88271479	6.50E-05	0.000308291
ENSMMUG00000064980		2.104383893	2.23E-06	1.42E-05
ENSMMUG00000037449	CUGBP Elav-like family member 2 [Source:NCBI gene;Acc:714291]	1.032978154	1.52E-05	8.28E-05
ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]	-1.07391001	6.75E-07	4.73E-06
ENSMMUG00000017164	FERM domain containing 4A [Source:VGNC Symbol;Acc:VGNC:72786]	0.494632321	0.018013038	0.044701029
ENSMMUG00000017170	cerebral dopamine neurotrophic factor [Source:VGNC Symbol;Acc:VGNC:71094]	0.652306862	7.87E-08	6.43E-07
ENSMMUG00000017173	heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]	2.239927589	2.30E-07	1.74E-06
ENSMMUG00000017174	suppressor of variegation 3-9 homolog 2 [Source:NCBI gene;Acc:697378]	3.457275622	0.001689508	0.005729567
ENSMMUG00000017176	DNA cross-link repair 1C [Source:NCBI gene;Acc:697493]	-3.65654635	0.001371923	0.004771485
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	0.981114345	2.02E-07	1.55E-06
ENSMMUG00000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.120834085	2.86E-06	1.78E-05
ENSMMUG00000016069	cubilin [Source:VGNC Symbol;Acc:VGNC:82132]	3.779810171	1.34E-21	5.71E-20
ENSMMUG00000010589	nebulette [Source:VGNC Symbol;Acc:VGNC:75195]	0.782852529	2.63E-06	1.65E-05
ENSMMUG00000038216	chromosome 9 C10orf113 homolog [Source:NCBI gene;Acc:702996]	1.008852251	0.003316843	0.010366445
ENSMMUG00000023648	protein AF-10 [Source:NCBI gene;Acc:709083]	0.344327441	0.018505609	0.045709224
ENSMMUG00000002930	G protein-coupled receptor 158 [Source:NCBI gene;Acc:707065]	0.974456782	1.10E-06	7.45E-06
ENSMMUG00000058873		1.022614367	1.20E-05	6.68E-05
ENSMMUG00000037243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.518366332	5.09E-06	3.02E-05
ENSMMUG00000016407	microtubule associated serine/threonine kinase like [Source:NCBI gene;Acc:708134]	1.177644529	0.00658557	0.018839507
ENSMMUG00000016410	acyl-CoA binding domain containing 5 [Source:VGNC Symbol;Acc:VGNC:69509]	0.829050098	0.00011193	0.000504687
ENSMMUG00000051106		0.922723523	0.007062392	0.020022036
ENSMMUG00000020657	patched domain containing 3 [Source:VGNC Symbol;Acc:VGNC:76310]	0.896223466	6.37E-05	0.000303045
ENSMMUG00000058108	BMP and activin membrane bound inhibitor [Source:NCBI gene;Acc:710152]	1.656314001	3.34E-05	0.000168926
ENSMMUG00000059681		1.536475861	0.000435162	0.001716799
ENSMMUG00000024540	5S ribosomal RNA [Source:RFAM;Acc:RF00001]	1.363257479	0.014199062	0.036500436
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]	1.577781876	9.92E-15	2.07E-13
ENSMMUG00000050047	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.058459054	1.10E-07	8.84E-07
ENSMMUG00000021559	junctional cadherin 5 associated [Source:VGNC Symbol;Acc:VGNC:73937]	1.860008548	0.014649235	0.037508315
ENSMMUG00000041067	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.995785822	0.014130304	0.036367997
ENSMMUG00000040958	lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]	0.928667604	2.45E-05	0.000127493
ENSMMUG00000044214		1.148634902	3.48E-10	4.07E-09

ENSMMUG0000007864	zinc finger protein 438 [Source:NCBI gene;Acc:700170]	1.726417068	0.004398232	0.013292396
ENSMMUG00000043648		1.344341784	0.003717818	0.011443595
ENSMMUG00000057199		0.984037604	0.000862092	0.003145327
ENSMMUG0000006713	cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]	0.835368264	0.000275871	0.0011377
ENSMMUG0000007426	BMS1 ribosome biogenesis factor [Source:HGNC Symbol;Acc:HGNC:23505]	-0.60819095	0.00841115	0.023341572
ENSMMUG00000054392	zinc finger protein 239 [Source:NCBI gene;Acc:717737]	0.948433203	0.008540569	0.023643204
ENSMMUG00000056797		2.513434958	0.009646102	0.026219152
ENSMMUG00000053760		0.933936339	3.44E-05	0.000173236
ENSMMUG00000060110	pleckstrin homology domain-containing family B member 2 [Source:NCBI gene;Acc:720588]	1.491554796	0.011331237	0.030169165
ENSMMUG00000057407	dorsal root ganglia homeobox [Source:NCBI gene;Acc:719355]	-1.40061021	0.00180994	0.006096163
ENSMMUG00000021308	chromosome 9 C10orf71 homolog [Source:NCBI gene;Acc:710332]	1.460535808	7.57E-07	5.26E-06
ENSMMUG00000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-1.07993269	1.29E-06	8.59E-06
ENSMMUG00000055918		2.552739385	0.000585579	0.00223415
ENSMMUG00000058251		1.853530308	0.003904758	0.011961899
ENSMMUG00000018634	methionine adenosyltransferase 1A [Source:VGNC Symbol;Acc:VGNC:74663]	0.922679502	0.000143343	0.000629673
ENSMMUG00000063666		0.726454211	0.01312471	0.034153265
ENSMMUG00000019780	annexin A11 [Source:VGNC Symbol;Acc:VGNC:69946]	0.649567366	0.0130877	0.034072153
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	2.350549398	3.99E-36	7.49E-34
ENSMMUG00000051972	zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]	3.867687442	5.23E-12	7.82E-11
ENSMMUG00000049862		1.182224795	2.02E-05	0.00010726
ENSMMUG00000008790	zinc finger MIZ-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79036]	0.867929039	3.12E-05	0.000158814
ENSMMUG00000055601		1.114400077	9.70E-24	5.23E-22
ENSMMUG00000005514	RNA polymerase III subunit A [Source:VGNC Symbol;Acc:VGNC:76138]	0.720159607	2.20E-06	1.40E-05
ENSMMUG00000009128	discs large MAGUK scaffold protein 5 [Source:VGNC Symbol;Acc:VGNC:71921]	0.643887658	9.01E-06	5.12E-05
ENSMMUG00000050271		0.600261483	0.014990412	0.038243216
ENSMMUG00000053916		0.973036593	4.63E-11	6.12E-10
ENSMMUG00000050841		0.625498121	0.003860068	0.011847023
ENSMMUG00000021393	calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]	1.932465407	3.47E-08	2.97E-07
ENSMMUG00000004604	zinc finger SWIM-type containing 8 [Source:VGNC Symbol;Acc:VGNC:79396]	1.594911872	0.004421223	0.013348276
ENSMMUG00000061526	synaptopodin 2 like [Source:NCBI gene;Acc:714736]	1.384827255	1.18E-10	1.47E-09
ENSMMUG00000013696	myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]	1.437593969	1.43E-09	1.53E-08
ENSMMUG00000020402	mitochondrial calcium uniporter [Source:VGNC Symbol;Acc:VGNC:74560]	0.984938775	0.006577789	0.018824509
ENSMMUG00000010431	DnaJ heat shock protein family (Hsp40) member B12 [Source:NCBI gene;Acc:721891]	1.197464068	0.010597525	0.028414626
ENSMMUG00000055226	DNA damage inducible transcript 4 [Source:NCBI gene;Acc:715307]	1.786244805	0.000801227	0.002948435
ENSMMUG00000009479	activating signal cointegrator 1 complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:69896]	1.497589191	0.020193845	0.049288137
ENSMMUG00000063113		3.102504989	0.015908051	0.040231309
ENSMMUG00000016652	cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]	0.87904492	1.26E-08	1.16E-07

ENSMMUG00000023198	tet methylcytosine dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:79811]	0.526178077	1.68E-05	9.10E-05
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	1.004657067	1.42E-08	1.30E-07
ENSMMUG00000019703	RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]	1.188073095	1.24E-20	4.74E-19
ENSMMUG00000050104	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.266667683	1.71E-08	1.54E-07
ENSMMUG00000009792	heterogeneous nuclear ribonucleoprotein H3 [Source:VGNC Symbol;Acc:VGNC:73497]	0.715904477	0.000101816	0.000464595
ENSMMUG00000016902	catenin alpha 3 [Source:VGNC Symbol;Acc:VGNC:82131]	0.546314929	0.004265852	0.012946629
ENSMMUG00000053199		0.576825665	0.004137544	0.0126099
ENSMMUG00000059754		0.836061012	0.000596296	0.002270365
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	1.017487058	1.34E-13	2.46E-12
		-		
ENSMMUG00000010844	protein kinase cGMP-dependent 1 [Source:VGNC Symbol;Acc:VGNC:76419]	1.713780697	0.003864545	0.011855855
ENSMMUG00000007078	N-acylsphingosine amidohydrolase 2 [Source:NCBI gene;Acc:703913]	-0.7162777	3.08E-10	3.64E-09
ENSMMUG00000007081	sphingomyelin synthase 1 [Source:VGNC Symbol;Acc:VGNC:77341]	0.716976098	0.002364963	0.007698067
ENSMMUG00000006414	ATPase family AAA domain containing 1 [Source:NCBI gene;Acc:704809]	0.979516987	0.006469325	0.018564258
ENSMMUG00000038485	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.284642176	0.003016193	0.009529736
ENSMMUG00000057042		1.004199289	0.007055015	0.020004947
		-		
ENSMMUG00000014343	lipase family member J [Source:VGNC Symbol;Acc:VGNC:74333]	1.428301866	5.45E-05	0.000262754
		-		
ENSMMUG00000000470	ankyrin repeat domain 22 [Source:VGNC Symbol;Acc:VGNC:69728]	1.962192719	0.000579325	0.002214845
		-		
ENSMMUG000000061761	interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]	1.031086448	0.002074439	0.006868482
		-		
ENSMMUG000000058942		1.263661919	0.000783459	0.002893102
ENSMMUG00000017533	interferon induced protein with tetratricopeptide repeats 1 [Source:NCBI gene;Acc:695683]	0.832550657	0.000419415	0.001662637
		-		
ENSMMUG00000059038	5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]	1.427333065	9.10E-06	5.16E-05
		-		
ENSMMUG00000006628	ribonuclease P/MRP subunit p30 [Source:VGNC Symbol;Acc:VGNC:77040]	2.204910144	0.000269253	0.001115369
ENSMMUG00000038018	polycomb group ring finger 5 [Source:NCBI gene;Acc:697020]	2.505076049	7.32E-05	0.000343385
		-		
ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	2.229433185	7.35E-15	1.55E-13
		-		
ENSMMUG00000058603		2.937449982	2.11E-08	1.89E-07
ENSMMUG00000059608	fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]	1.336535936	2.22E-11	3.04E-10
ENSMMUG00000017627	B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	1.680531246	1.78E-34	2.87E-32
ENSMMUG00000004816	membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]	1.325465087	2.62E-10	3.13E-09
ENSMMUG00000023266	kinesin family member 11 [Source:VGNC Symbol;Acc:VGNC:74030]	1.014241263	0.002173297	0.007138426
ENSMMUG00000058935	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.774144279	0.00031022	0.001265282
ENSMMUG000000049455	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.221642816	0.009427248	0.025737498
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	3.087640744	9.16E-34	1.33E-31
ENSMMUG000000049508		3.263381247	9.86E-13	1.63E-11
ENSMMUG00000028000	Y RNA [Source:RFAM;Acc:RF00019]	3.650305426	1.26E-05	6.95E-05
ENSMMUG00000052637	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.423802466	3.56E-18	1.04E-16
ENSMMUG00000010881	cytochrome P450, family 26, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:699519]	1.286688577	0.002990686	0.009472849
ENSMMUG00000006841	myoferlin [Source:VGNC Symbol;Acc:VGNC:75061]	2.515670136	0.002584603	0.008325296
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	3.129691413	3.28E-15	7.11E-14
		-		
ENSMMUG00000050975		1.578359598	4.32E-08	3.65E-07
		-		
ENSMMUG00000008687	B cell linker [Source:VGNC Symbol;Acc:VGNC:70306]	0.662112355	9.36E-08	7.57E-07
ENSMMUG00000001876	phosphoinositide-3-kinase adaptor protein 1 [Source:VGNC Symbol;Acc:VGNC:75891]	-1.083358	5.02E-07	3.59E-06

ENSMMUG00000010427	ligand dependent nuclear receptor corepressor [Source:NCBI gene;Acc:705646]	0.661810116	0.000102581	0.000467797
ENSMMUG00000010428	slit guidance ligand 1 [Source:VGNC Symbol;Acc:VGNC:77643]	0.777911647	2.00E-18	6.00E-17
ENSMMUG00000019634	ribosomal RNA processing 12 homolog [Source:VGNC Symbol;Acc:VGNC:77122]	0.408680618	0.002021481	0.006717677
ENSMMUG00000052662	Y RNA [Source:RFAM;Acc:RF00019]	1.406813474	0.001037412	0.003717936
ENSMMUG00000015503	zinc finger FYVE-type containing 27 [Source:VGNC Symbol;Acc:VGNC:79623]	0.785865422	1.45E-12	2.34E-11
ENSMMUG00000060995		2.199767123	0.013035592	0.033963076
ENSMMUG00000020603	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]	1.074231367	4.57E-20	1.62E-18
ENSMMUG00000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.288353109	4.81E-15	1.03E-13
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.031317495	3.48E-10	4.07E-09
ENSMMUG00000049770	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.002644393	0.001555468	0.005323698
ENSMMUG00000020605	heparanase 2 (inactive) [Source:NCBI gene;Acc:708795]	0.73354885	0.001085981	0.003876208
ENSMMUG00000060230	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.92001164	0.000640719	0.002423945
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	1.369437922	1.92E-12	3.07E-11
ENSMMUG00000023761	ectonucleoside triphosphate diphosphohydrolase 7 [Source:VGNC Symbol;Acc:VGNC:72071]	1.169510582	2.21E-08	1.97E-07
ENSMMUG00000063121		0.934427189	0.001229769	0.004331942
ENSMMUG00000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	2.082476146	1.37E-09	1.47E-08
ENSMMUG00000006233	adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]	1.944304705	7.37E-09	7.07E-08
ENSMMUG00000063986		1.531614358	0.000568377	0.002175795
ENSMMUG00000051414	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.150366112	0.001237842	0.004356241
ENSMMUG00000014350	MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]	1.174115572	2.15E-09	2.24E-08
ENSMMUG00000007775	survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]	1.642578704	2.99E-07	2.21E-06
ENSMMUG00000057793	dual specificity phosphatase 5 [Source:NCBI gene;Acc:698178]	2.413177769	0.00499184	0.014835468
ENSMMUG00000007982	structural maintenance of chromosomes 3 [Source:VGNC Symbol;Acc:VGNC:77769]	1.258367419	0.00404664	0.012355707
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	-2.74901709	0.000139573	0.000614836
ENSMMUG00000056056		-3.08385595	0.001466404	0.005055037
ENSMMUG00000017206	SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]	3.036496865	0.000139145	0.000613596
ENSMMUG00000003548	tectorin beta [Source:VGNC Symbol;Acc:VGNC:78306]	1.287083142	0.001040286	0.003726435
ENSMMUG00000054123	vesicle transport through interaction with t-SNAREs 1A [Source:NCBI gene;Acc:696654]	0.957491159	2.84E-07	2.11E-06
ENSMMUG00000053789		1.181144192	7.81E-07	5.41E-06
ENSMMUG00000001217	caspase 7 [Source:VGNC Symbol;Acc:VGNC:70546]	0.981602825	5.53E-05	0.000266035
ENSMMUG00000055239		1.016091738	2.75E-12	4.30E-11
ENSMMUG00000022514	coiled-coil domain containing 186 [Source:VGNC Symbol;Acc:VGNC:70847]	0.837937334	2.59E-08	2.28E-07
ENSMMUG00000022524	actin binding LIM protein 1 [Source:VGNC Symbol;Acc:VGNC:69587]	0.406578949	0.004621645	0.013891163
ENSMMUG00000058240		1.954981396	3.08E-08	2.68E-07
ENSMMUG00000015414	family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]	1.351195644	3.81E-07	2.77E-06
ENSMMUG00000036145	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.530523867	0.020059604	0.048984675
ENSMMUG00000016663	coiled-coil domain containing 172 [Source:VGNC Symbol;Acc:VGNC:70916]	1.037546492	0.005669103	0.016534079

ENSMMUG00000053348	PDZ domain containing 8 [Source:NCBI gene;Acc:709084]	-	0.972983213	0.000189336	0.00081152
ENSMMUG00000059847		-	0.719656033	0.017215146	0.042960428
ENSMMUG00000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]		2.547762222	1.83E-38	4.05E-36
ENSMMUG00000054942			2.268826967	1.10E-10	1.39E-09
ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]		2.344128804	2.64E-18	7.84E-17
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]		2.151374021	1.22E-11	1.73E-10
ENSMMUG00000064321			1.960739809	3.25E-14	6.33E-13
ENSMMUG00000064557			2.111482015	3.47E-24	1.93E-22
ENSMMUG00000052711		-	0.861303526	6.96E-06	4.03E-05
ENSMMUG00000021594	arginyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70168]		2.802968393	0.002619701	0.008421887
ENSMMUG00000023480	IKAROS family zinc finger 5 [Source:VGNC Symbol;Acc:VGNC:73590]		1.797174388	4.12E-06	2.49E-05
ENSMMUG0000000684	acyl-CoA dehydrogenase short/branched chain [Source:VGNC Symbol;Acc:VGNC:81343]		1.573248948	0.000787823	0.00290777
ENSMMUG00000020346	carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]		1.526272799	2.88E-20	1.05E-18
ENSMMUG00000058933		-	2.514798959	8.02E-07	5.54E-06
ENSMMUG00000008539	uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]		1.225307664	8.11E-09	7.71E-08
ENSMMUG00000008541	BRCA2 and CDKN1A interacting protein [Source:NCBI gene;Acc:699437]		1.049123856	7.79E-08	6.38E-07
ENSMMUG00000008542	DEAH-box helicase 32 (putative) [Source:NCBI gene;Acc:695919]		0.905043682	0.00013348	0.000591959
ENSMMUG00000035166	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]		-1.43372377	0.000749159	0.002773347
ENSMMUG00000044121	marker of proliferation Ki-67 [Source:NCBI gene;Acc:697883]		-0.6767984	0.000320429	0.001304049
ENSMMUG00000064746			-3.42611819	0.014188618	0.036492751
ENSMMUG00000059108		-	1.974577034	0.002153549	0.007084547
ENSMMUG00000059161		-	2.021573834	0.003157402	0.00993513
ENSMMUG00000013653	lysine demethylase 5A [Source:VGNC Symbol;Acc:VGNC:82169]		0.674577815	1.27E-11	1.80E-10
ENSMMUG00000013894	beta-1,4-N-acetyl-galactosaminyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:70121]		-1.24515079	0.00163418	0.005555912
ENSMMUG00000018650	WNK lysine deficient protein kinase 1 [Source:VGNC Symbol;Acc:VGNC:78960]		0.520176513	0.003289345	0.010291346
ENSMMUG00000007405	FKBP prolyl isomerase 4 [Source:VGNC Symbol;Acc:VGNC:72664]		-1.35192371	0.007694402	0.021586829
ENSMMUG00000007411	integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]		1.807797823	1.10E-13	2.04E-12
ENSMMUG00000007424	nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]		1.657847124	2.86E-14	5.62E-13
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]		1.431608005	1.00E-10	1.27E-09
ENSMMUG00000061935			2.43476304	6.83E-13	1.16E-11
ENSMMUG00000023583	calcium release activated channel regulator 2A [Source:NCBI gene;Acc:709929]		1.133200347	0.003691273	0.01137842
ENSMMUG00000018273	poly(ADP-ribose) polymerase family member 11 [Source:NCBI gene;Acc:721828]		0.820076288	0.015019453	0.038297539
ENSMMUG00000057580		-	1.015392044	0.001605794	0.005469435
ENSMMUG00000008546	cyclin D2 [Source:NCBI gene;Acc:710379]		1.065529556	3.86E-05	0.000191667
ENSMMUG00000064833	fibroblast growth factor 23 [Source:NCBI gene;Acc:710643]		0.804368628	0.016481613	0.041455618

ENSMMUG00000015189	RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]	-1.17714961	8.69E-05	0.000402513
ENSMMUG00000020811	dual specificity tyrosine phosphorylation regulated kinase 4 [Source:NCBI gene;Acc:710999]	0.773145792	0.0006071	0.002307947
ENSMMUG00000020812	A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]	-1.43659842	9.27E-05	0.000426175
ENSMMUG00000020813	NADH:ubiquinone oxidoreductase subunit A9 [Source:VGNC Symbol;Acc:VGNC:81480]	-0.93218495	1.59E-05	8.62E-05
ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	2.967769405	4.41E-09	4.37E-08
ENSMMUG00000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.950593274	2.13E-08	1.91E-07
ENSMMUG00000004470	CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]	3.662878216	2.14E-08	1.91E-07
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	2.491834176	1.83E-36	3.52E-34
ENSMMUG00000000377	TNF receptor superfamily member 1A [Source:VGNC Symbol;Acc:VGNC:78589]	1.143701334	0.01775442	0.044133097
ENSMMUG000000053013		2.059305705	1.75E-13	3.16E-12
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	2.648526038	7.42E-21	2.88E-19
ENSMMUG00000018679	glyceraldehyde-3-phosphate dehydrogenase [Source:NCBI gene;Acc:574353]	1.760483344	1.56E-07	1.22E-06
ENSMMUG00000017619	lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]	1.273754495	5.79E-15	1.24E-13
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	1.391330464	1.96E-13	3.52E-12
ENSMMUG00000050979	PILR alpha associated neural protein [Source:NCBI gene;Acc:713548]	1.511100396	0.004761075	0.014255349
ENSMMUG00000009583	COP9 signalosome subunit 7A [Source:VGNC Symbol;Acc:VGNC:71185]	1.65673147	6.14E-05	0.000292861
ENSMMUG00000013202	CD4 molecule [Source:NCBI gene;Acc:713807]	0.493672224	0.003510006	0.01088983
ENSMMUG00000005189	prolyl 3-hydroxylase 3 [Source:VGNC Symbol;Acc:VGNC:75650]	0.401209609	0.019846002	0.048534994
ENSMMUG00000005192	ubiquitin specific peptidase 5 [Source:VGNC Symbol;Acc:VGNC:78747]	0.31646786	0.015105956	0.038471807
ENSMMUG00000009443	enolase 2 [Source:VGNC Symbol;Acc:VGNC:72219]	1.902921434	0.004177193	0.012713634
ENSMMUG00000010201	atrophin 1 [Source:VGNC Symbol;Acc:VGNC:70157]	0.966568853	6.66E-05	0.000315211
ENSMMUG00000010203	protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]	1.004360998	3.63E-05	0.00018171
ENSMMUG00000012786	complement C1s [Source:VGNC Symbol;Acc:VGNC:70297]	0.747023059	1.41E-06	9.30E-06
ENSMMUG00000006470	complement C1r subcomponent [Source:NCBI gene;Acc:722133]	1.372850956	4.38E-17	1.14E-15
ENSMMUG00000022109	CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]	1.886176972	2.26E-21	9.35E-20
ENSMMUG00000005150	CD163 molecule [Source:VGNC Symbol;Acc:VGNC:70752]	2.130823917	3.72E-06	2.26E-05
ENSMMUG000000057570		3.537832699	1.17E-52	1.57E-49
ENSMMUG00000048744		1.794565629	5.78E-05	0.000276927
ENSMMUG000000057785		7.413054822	9.66E-22	4.20E-20
ENSMMUG000000061774	taste 2 receptor member 10 [Source:NCBI gene;Acc:717960]	1.895789438	0.009499509	0.02589188
ENSMMUG000000050862		1.411048645	1.90E-09	2.00E-08
ENSMMUG00000018298	killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]	3.342446733	4.47E-06	2.69E-05
ENSMMUG00000015305	C-type lectin domain family 2 member A [Source:VGNC Symbol;Acc:VGNC:71329]	1.873181181	0.000101491	0.000463537
ENSMMUG000000045446		3.404992271	1.17E-05	6.51E-05
ENSMMUG000000032892	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.993384908	1.22E-06	8.12E-06
ENSMMUG000000044047	killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]	1.216526806	2.21E-05	0.000116429
ENSMMUG000000056741	ovostatin-like [Source:NCBI gene;Acc:722294]	2.884395506	8.82E-07	6.04E-06
ENSMMUG000000003238	pregnancy zone protein [Source:NCBI gene;Acc:100430319]	-1.35348341	0.005349909	0.015726293
ENSMMUG000000022680	alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]	1.762148233	1.01E-08	9.43E-08
ENSMMUG000000022676	ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]	2.911075682	0.001638428	0.005567801

ENSMMUG00000013698	C-type lectin domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71179]	-1.11861071	0.017728453	0.044075935
ENSMMUG00000052134		1.359759265	0.000468781	0.001834308
ENSMMUG00000060675		1.291572963	1.39E-09	1.49E-08
ENSMMUG00000021005	taste receptor type 2 member 50 [Source:NCBI gene;Acc:693513]	1.200840472	0.000123483	0.000551415
ENSMMUG00000056428	taste receptor type 2 member 20 [Source:NCBI gene;Acc:693643]	1.176730616	0.002122497	0.007001031
ENSMMUG00000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	1.227980879	6.62E-09	6.38E-08
ENSMMUG00000054225	taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]	1.811519819	3.92E-06	2.38E-05
ENSMMUG00000042870	Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]	1.134086928	0.001626159	0.005532448
		-		
ENSMMUG00000023317	LDL receptor related protein 6 [Source:VGNC Symbol;Acc:VGNC:74446]	0.902318929	0.00378256	0.011625371
		-		
ENSMMUG00000019112	glutamate ionotropic receptor NMDA type subunit 2B [Source:VGNC Symbol;Acc:VGNC:73283]	0.495154788	3.52E-05	0.000176815
ENSMMUG00000047247	matrix Gla protein [Source:NCBI gene;Acc:574116]	2.965641313	0.000206835	0.000879405
ENSMMUG00000018030	endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]	1.964592933	1.48E-07	1.16E-06
ENSMMUG00000053781	Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]	2.4700581	6.26E-07	4.41E-06
ENSMMUG00000050529	phosphodiesterase 6H [Source:NCBI gene;Acc:700447]	1.808019691	0.009603859	0.026126428
		-		
ENSMMUG00000056014	potassium inwardly rectifying channel subfamily J member 8 [Source:NCBI gene;Acc:706369]	1.360208331	0.011995567	0.031670689
ENSMMUG00000049682	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-2.33794212	0.001429001	0.00494103
		-		
ENSMMUG00000048030	ferritin, heavy polypeptide 1-like [Source:NCBI gene;Acc:707011]	2.135170246	0.017843692	0.04434014
		-		
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	2.602289296	2.40E-05	0.000125048
		-		
ENSMMUG00000057276		1.972716388	0.00155234	0.005314222
ENSMMUG00000049874		-2.24854008	0.005000547	0.014852415
ENSMMUG00000038076	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.913540247	0.005644476	0.016481113
ENSMMUG00000060493		0.711205345	6.55E-06	3.81E-05
ENSMMUG00000012223	branched chain amino acid transaminase 1 [Source:VGNC Symbol;Acc:VGNC:70236]	1.028217366	4.14E-14	8.00E-13
		-		
ENSMMUG00000053657		2.288580072	0.001180586	0.004180536
ENSMMUG00000039562	basic helix-loop-helix family member e41 [Source:NCBI gene;Acc:709786]	0.285063822	0.009306248	0.025458707
ENSMMUG00000018630	sarcospan [Source:VGNC Symbol;Acc:VGNC:77887]	0.404945593	0.001612847	0.005492198
ENSMMUG00000050627		0.376164129	0.000288885	0.001183473
ENSMMUG00000023128	inositol 1,4,5-trisphosphate receptor type 2 [Source:VGNC Symbol;Acc:VGNC:73805]	0.46179482	0.000103534	0.000471419
ENSMMUG00000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	1.493173048	2.46E-09	2.54E-08
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	1.613281691	1.45E-19	4.79E-18
ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]	-1.39640294	1.92E-06	1.23E-05
		-		
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	0.983885287	2.64E-08	2.32E-07
ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]	1.293552839	3.40E-12	5.23E-11
		-		
ENSMMUG00000054181		1.420131848	0.012942704	0.033768525
		-		
ENSMMUG00000053437		0.441119303	0.004809969	0.014378519
		-		
ENSMMUG00000001361	importin 8 [Source:VGNC Symbol;Acc:VGNC:73815]	0.774292211	0.016892404	0.042366709
		-		
ENSMMUG00000001359	caprin family member 2 [Source:VGNC Symbol;Acc:VGNC:70599]	0.848010642	0.00099802	0.003597561
		-		
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	1.103863244	1.55E-13	2.82E-12
		-		
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	2.207431186	9.37E-07	6.39E-06

ENSMMUG00000039300		-	1.527978695	0.005387232	0.015826594
ENSMMUG0000003221	DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]	-	0.968109957	0.000277037	0.001142192
ENSMMUG00000063112		-	1.849432139	3.16E-06	1.95E-05
ENSMMUG00000013655	dynamamin 1 like [Source:VGNC Symbol;Acc:VGNC:71956]	-	1.515999295	0.001591384	0.005424091
ENSMMUG00000060125		-	2.742723827	0.007416712	0.020870937
ENSMMUG00000021163	contactin 1 [Source:VGNC Symbol;Acc:VGNC:71283]	-	0.454971028	2.40E-05	0.000125317
ENSMMUG00000056303		-	-2.47229055	7.61E-06	4.37E-05
ENSMMUG00000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	-	1.223211354	5.12E-17	1.33E-15
ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]	-	2.191432201	1.03E-17	2.88E-16
ENSMMUG00000037874	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.511384335	0.000237723	0.000997298
ENSMMUG00000023791	SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]	-	2.926818835	4.13E-06	2.49E-05
ENSMMUG00000022359	solute carrier family 38 member 2 [Source:VGNC Symbol;Acc:VGNC:77469]	-	0.796649636	0.010349855	0.027871499
ENSMMUG00000064730		-	2.845827604	3.48E-26	2.35E-24
ENSMMUG00000012331	solute carrier family 38 member 4 [Source:VGNC Symbol;Acc:VGNC:77484]	-	0.822807761	7.66E-05	0.000357686
ENSMMUG00000049514	solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]	-	1.249417439	7.28E-09	6.99E-08
ENSMMUG00000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	-	1.063600284	2.61E-13	4.58E-12
ENSMMUG00000006727	vitamin D receptor [Source:VGNC Symbol;Acc:VGNC:78764]	-	0.66223989	6.75E-05	0.000318892
ENSMMUG00000011441	transmembrane protein 106C [Source:VGNC Symbol;Acc:VGNC:79741]	-	2.706526215	0.000126887	0.000565423
ENSMMUG00000020125	SUMO specific peptidase 1 [Source:NCBI gene;Acc:707603]	-	1.575175195	0.002161028	0.007099701
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	-	2.279038202	4.07E-16	9.54E-15
ENSMMUG00000003877	KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]	-	1.074996688	0.001726832	0.005842782
ENSMMUG00000054025	testis expressed 49 [Source:NCBI gene;Acc:709603]	-	0.460213122	0.008803108	0.024270326
ENSMMUG00000012769	limb development membrane protein 1 like [Source:VGNC Symbol;Acc:VGNC:74310]	-	-0.96996561	1.58E-06	1.03E-05
ENSMMUG00000021081	tubulin alpha 1b [Source:NCBI gene;Acc:709643]	-	0.900131904	0.000128393	0.00057128
ENSMMUG00000028047	Y RNA [Source:RFAM;Acc:RF00019]	-	1.557600221	0.005328651	0.015673124
ENSMMUG00000009788	tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]	-	0.863060538	0.002294568	0.007488653
ENSMMUG00000031976	peripherin [Source:NCBI gene;Acc:709827]	-	0.765810851	0.013297949	0.034555562
ENSMMUG00000007544	trophinin associated protein [Source:VGNC Symbol;Acc:VGNC:78650]	-	0.912714388	0.000213295	0.000904796
ENSMMUG00000007546	complement C1q like 4 [Source:VGNC Symbol;Acc:VGNC:70450]	-	1.284632433	5.95E-05	0.000284644
ENSMMUG00000007548	DnaJ heat shock protein family (Hsp40) member C22 [Source:NCBI gene;Acc:710205]	-	1.109558489	0.003084905	0.009723517
ENSMMUG00000064430		-	0.941074154	4.22E-05	0.000207987
ENSMMUG00000049374		-	0.988892777	4.87E-08	4.10E-07
ENSMMUG00000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	-	1.043057252	2.37E-14	4.69E-13
ENSMMUG00000021688	aquaporin 6 [Source:VGNC Symbol;Acc:VGNC:69994]	-	1.946269939	0.011824335	0.031274279
ENSMMUG00000021689	Rac GTPase activating protein 1 [Source:NCBI gene;Acc:711887]	-	0.720524974	2.56E-05	0.000132941
ENSMMUG00000006529	acid sensing ion channel subunit 1 [Source:VGNC Symbol;Acc:VGNC:70035]	-	1.099327797	0.006716535	0.0191661

ENSMMUG00000006531	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 [Source:VGNC Symbol;Acc:VGNC:77653]	0.981241412	0.000149212	0.000653134
ENSMMUG00000018485	methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]	1.577644709	0.000395361	0.001577401
ENSMMUG00000027375	Y RNA [Source:RFAM;Acc:RF00019]	1.264985072	0.000231603	0.00097465
ENSMMUG00000022961	solute carrier family 11 member 2 [Source:VGNC Symbol;Acc:VGNC:77383]	0.989648778	0.001957214	0.006531387
ENSMMUG00000012453	LETM1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74109]	0.484864869	0.000285314	0.001171105
ENSMMUG00000000152	transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]	1.800645684	0.000262463	0.001089371
ENSMMUG00000004982	activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]	2.456973644	0.003590411	0.011109075
		-		
ENSMMUG00000022922	nuclear receptor subfamily 4 group A member 1 [Source:VGNC Symbol;Acc:VGNC:75517]	0.301373557	0.005945441	0.017244352
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	-0.67994275	3.18E-09	3.23E-08
ENSMMUG00000064514	keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]	-0.76140753	4.63E-06	2.77E-05
ENSMMUG00000057841	keratin 86 [Source:NCBI gene;Acc:697770]	0.923517386	1.81E-05	9.71E-05
		-		
ENSMMUG00000018217	keratin 84 [Source:VGNC Symbol;Acc:VGNC:74220]	1.155962578	0.000583428	0.002227086
ENSMMUG00000018219	keratin 75 [Source:VGNC Symbol;Acc:VGNC:74113]	1.159027477	0.011802189	0.031237992
ENSMMUG00000057134	keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]	1.174964748	5.70E-06	3.36E-05
ENSMMUG00000055016	keratin, type II cytoskeletal 6A [Source:NCBI gene;Acc:719283]	0.793235938	1.40E-12	2.27E-11
ENSMMUG00000014400	keratin 71 [Source:VGNC Symbol;Acc:VGNC:74147]	0.431114249	0.001431067	0.004947023
ENSMMUG00000002304	keratin 73 [Source:VGNC Symbol;Acc:VGNC:74148]	1.305509661	3.14E-05	0.000159288
ENSMMUG00000002305	keratin 2 [Source:VGNC Symbol;Acc:VGNC:74212]	0.893574519	0.013464238	0.03494481
ENSMMUG00000016962	keratin 1 [Source:VGNC Symbol;Acc:VGNC:74206]	0.77378229	0.000185465	0.000796076
ENSMMUG00000045353	keratin, type II cytoskeletal 1b [Source:NCBI gene;Acc:718983]	0.742117487	0.007589592	0.021329098
		-		
ENSMMUG00000014980	keratin 76 [Source:VGNC Symbol;Acc:VGNC:74112]	0.997951335	0.000574348	0.00219752
		-		
ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	2.423545168	1.75E-11	2.43E-10
		-		
ENSMMUG00000052817	Sp7 transcription factor [Source:NCBI gene;Acc:702575]	1.621434926	0.001136123	0.004040457
ENSMMUG00000020036	Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]	-1.69436394	3.49E-10	4.07E-09
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	2.145975925	1.39E-20	5.28E-19
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	2.216343225	2.66E-20	9.70E-19
		-		
ENSMMUG00000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	2.732844926	1.26E-21	5.43E-20
ENSMMUG00000000108	NCK associated protein 1 like [Source:VGNC Symbol;Acc:VGNC:75063]	3.512417843	0.000208095	0.000883747
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	1.750962671	1.75E-17	4.79E-16
ENSMMUG00000016203	thymocyte expressed, positive selection associated 1 [Source:VGNC Symbol;Acc:VGNC:79775]	0.501259438	0.001048693	0.003754734
ENSMMUG00000055590		-1.12539132	2.14E-09	2.23E-08
ENSMMUG00000006293	SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]	1.109676682	3.26E-13	5.68E-12
ENSMMUG00000053458	ORMDL sphingolipid biosynthesis regulator 2 [Source:NCBI gene;Acc:710296]	0.953237341	1.43E-13	2.60E-12
ENSMMUG00000051937	uncharacterized LOC707807 [Source:NCBI gene;Acc:707807]	0.808231075	0.001464219	0.005049853
ENSMMUG00000006295	matrix metalloproteinase 19 [Source:VGNC Symbol;Acc:VGNC:74896]	0.911436973	2.04E-06	1.31E-05
		-		
ENSMMUG00000064364	sulfite oxidase [Source:NCBI gene;Acc:711164]	0.721868833	0.020433992	0.049727615
		-		
ENSMMUG00000008273	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily c member 2 [Source:VGNC Symbol;Acc:VGNC:77652]	1.391006342	0.020285894	0.049450352
ENSMMUG00000064075	ring finger protein 41 [Source:NCBI gene;Acc:711969]	-1.14954407	1.54E-05	8.39E-05
		-		
ENSMMUG00000054020	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.187076873	0.000332963	0.001349138
		-		
ENSMMUG00000059663		1.254392665	4.81E-10	5.53E-09
		-		
ENSMMUG00000031834	coenzyme Q10A [Source:VGNC Symbol;Acc:VGNC:71356]	1.271276328	0.000113868	0.000512026

ENSMMUG0000002483	citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]	1.672498753	8.74E-07	5.99E-06
ENSMMUG00000013482	poly(A) specific ribonuclease subunit PAN2 [Source:NCBI gene;Acc:712478]	2.387071623	0.00018987	0.000813571
ENSMMUG00000000803	signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]	2.454713759	6.03E-20	2.10E-18
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]	2.807126941	9.52E-20	3.24E-18
ENSMMUG00000053460		2.508059284	5.36E-17	1.38E-15
		-		
ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]	1.116003436	1.08E-07	8.68E-07
ENSMMUG00000013766	prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]	1.421787934	8.26E-16	1.89E-14
ENSMMUG00000004522	DNA primase subunit 1 [Source:NCBI gene;Acc:710253]	0.699005261	5.52E-10	6.29E-09
ENSMMUG00000057617	hydroxysteroid 17-beta dehydrogenase 6 [Source:NCBI gene;Acc:713549]	0.891928717	0.015099613	0.038468864
		-		
ENSMMUG00000043411	zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]	1.688417103	8.88E-08	7.21E-07
ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]	-1.1911484	1.90E-08	1.71E-07
		-		
ENSMMUG00000013518	myosin IA [Source:VGNC Symbol;Acc:VGNC:75110]	0.622707898	5.57E-06	3.28E-05
		-		
ENSMMUG00000021782	LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]	0.785071544	2.74E-06	1.71E-05
		-		
ENSMMUG00000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]	2.424497608	7.45E-23	3.61E-21
		-		
ENSMMUG00000055477		2.290643628	1.85E-11	2.55E-10
ENSMMUG00000062139		1.270134846	2.21E-05	0.000116402
ENSMMUG00000011579	TAFA chemokine like family member 2 [Source:VGNC Symbol;Acc:VGNC:78189]	0.603839498	7.16E-08	5.89E-07
		-		
ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]	4.093629281	3.21E-17	8.51E-16
		-		
ENSMMUG00000016887	WNT inhibitory factor 1 [Source:VGNC Symbol;Acc:VGNC:79110]	2.966595098	0.0124703	0.032720196
ENSMMUG00000003669	methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]	0.842218812	3.19E-08	2.76E-07
ENSMMUG00000041729		1.591893845	5.61E-08	4.69E-07
ENSMMUG00000052321		2.281538238	0.013931451	0.035969568
ENSMMUG00000016621	transmembrane BAX inhibitor motif containing 4 [Source:NCBI gene;Acc:717825]	4.212583039	0.000301263	0.001230443
ENSMMUG00000054816	interleukin 1 receptor associated kinase 3 [Source:NCBI gene;Acc:717845]	3.613607853	0.000100193	0.000458174
		-		
ENSMMUG00000016631	glutamate receptor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73195]	1.140158265	0.001830798	0.006163618
ENSMMUG00000011650	dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]	2.359354453	3.96E-16	9.32E-15
ENSMMUG00000059548		2.153906848	0.000356187	0.001435005
		-		
ENSMMUG00000014186	nucleoporin 107 [Source:VGNC Symbol;Acc:VGNC:75488]	0.554058573	0.008830806	0.02433312
		-		
ENSMMUG00000014187	solute carrier family 35 member E3 [Source:VGNC Symbol;Acc:VGNC:77542]	0.643051424	0.012385234	0.032548826
		-		
ENSMMUG00000055447	MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]	1.027487441	0.000111039	0.000500977
ENSMMUG00000053722		3.470985062	1.16E-12	1.90E-11
		-		
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]	1.301988716	1.03E-12	1.69E-11
		-		
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]	2.582517348	9.18E-15	1.93E-13
		-		
ENSMMUG00000054953	leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]	4.226512381	2.90E-07	2.15E-06
		-		
ENSMMUG00000012289	GLIPR1 like 1 [Source:VGNC Symbol;Acc:VGNC:81412]	0.912602304	0.000135635	0.000599956
ENSMMUG00000012290	GLIPR1 like 2 [Source:VGNC Symbol;Acc:VGNC:81413]	-1.57004101	1.93E-06	1.24E-05
ENSMMUG00000051874		0.709908164	8.24E-07	5.67E-06
ENSMMUG00000015583	nucleosome assembly protein 1 like 1 [Source:NCBI gene;Acc:719047]	1.416655527	4.79E-05	0.000233683

ENSMMUG00000017864	oxysterol binding protein like 8 [Source:VGNC Symbol;Acc:VGNC:75630]	1.037452157	0.009679123	0.026299265
ENSMMUG00000059985		2.672583673	0.011435483	0.030413954
ENSMMUG00000005530	synaptotagmin 1 [Source:VGNC Symbol;Acc:VGNC:78074]	1.11813261	0.00020456	0.00087073
ENSMMUG00000050266		-	-	-
ENSMMUG00000063005	coiled-coil domain containing 59 [Source:NCBI gene;Acc:698443]	1.501249008	0.014567674	0.037325259
ENSMMUG00000002514	coiled-coil domain containing 59 [Source:NCBI gene;Acc:698443]	0.958958724	0.008570383	0.023703614
ENSMMUG00000002514	methytransferase like 25 [Source:VGNC Symbol;Acc:VGNC:74591]	-	-	-
ENSMMUG00000059068		1.680201084	0.011492552	0.03051648
ENSMMUG00000056953		-	-	-
ENSMMUG00000038410		1.084208707	0.006252409	0.01802551
ENSMMUG00000063190		-	-	-
ENSMMUG0000003574	POC1 centriolar protein B [Source:NCBI gene;Acc:709011]	2.233041247	0.002442566	0.007922847
ENSMMUG00000023378	ATPase plasma membrane Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70180]	-	-	-
ENSMMUG00000055284		1.873146803	2.58E-05	0.000133694
ENSMMUG00000064177		0.688454532	0.000514835	0.0019966
ENSMMUG00000049117	CLLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]	0.507459759	0.000415501	0.001648885
ENSMMUG0000002243	pleckstrin homology and RhoGEF domain containing G7 [Source:VGNC Symbol;Acc:VGNC:76149]	1.208307361	0.00988679	0.026785002
ENSMMUG0000002244	early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]	-	-	-
ENSMMUG00000052496		2.057965882	0.000298847	0.001221245
ENSMMUG00000055071	Y RNA [Source:RFAM;Acc:RF00019]	-2.1155203	0.002655288	0.008523358
ENSMMUG00000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	-	-	-
ENSMMUG00000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	4.095953088	9.26E-05	0.000425954
ENSMMUG00000056553		-	-	-
ENSMMUG00000060793		1.027933213	2.64E-08	2.32E-07
ENSMMUG00000018898	nuclear receptor subfamily 2 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75508]	-1.18277455	3.41E-08	2.93E-07
ENSMMUG00000009303	coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]	-	-	-
ENSMMUG00000009308	histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]	0.978789704	4.13E-08	3.50E-07
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	-	-	-
ENSMMUG00000053376		2.208359223	6.05E-05	0.000288966
ENSMMUG00000050585		2.470342626	7.13E-55	1.06E-51
ENSMMUG00000018145	ETS transcription factor ELK3 [Source:VGNC Symbol;Acc:VGNC:72210]	2.469077915	1.72E-32	2.18E-30
ENSMMUG00000053956	Y RNA [Source:RFAM;Acc:RF00019]	-	-	-
ENSMMUG00000023719	thymopoietin [Source:VGNC Symbol;Acc:VGNC:78574]	1.020119317	0.002982534	0.009451065
ENSMMUG00000051674	IKBKB interacting protein [Source:NCBI gene;Acc:693896]	-	-	-
ENSMMUG00000022404	apoptotic peptidase activating factor 1 [Source:VGNC Symbol;Acc:VGNC:69975]	0.447135879	0.020202162	0.049300324
ENSMMUG00000022406	ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]	-	-	-
ENSMMUG00000023601	UHRF1 binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:79774]	1.172995475	0.000234268	0.000985307
ENSMMUG00000063774		-	-	-
		1.529145923	5.42E-09	5.29E-08
		1.879877801	0.001340214	0.004674358
		2.498150682	4.76E-18	1.37E-16
		1.376705689	7.56E-08	6.20E-07
		1.086414678	0.000223374	0.000942162
		-	-	-
		0.466962928	0.01160384	0.030784428
		-	-	-
		0.648665561	0.009857771	0.026717148
		1.156861513	3.98E-06	2.41E-05
		0.398456267	0.006383847	0.018354488
		0.726819811	1.18E-10	1.47E-09
		1.591568843	3.25E-20	1.16E-18
		0.564803501	0.005088586	0.015068635
		0.759156293	0.012785374	0.033422722

ENSMMUG00000061260	Spi-C transcription factor [Source:NCBI gene;Acc:695809]	-1.33428214	5.63E-12	8.39E-11
ENSMMUG00000042077	DNA damage regulated autophagy modulator 1 [Source:NCBI gene;Acc:697427]	0.899102756	2.10E-14	4.20E-13
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	2.912783899	3.67E-50	3.63E-47
ENSMMUG00000061923		2.389544245	2.92E-09	2.99E-08
ENSMMUG0000005504	nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]	2.559302748	2.14E-14	4.28E-13
ENSMMUG0000005506	PARP1 binding protein [Source:VGNC Symbol;Acc:VGNC:75682]	0.701622577	0.018923167	0.04660089
		-		
ENSMMUG00000038958	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.220173267	0.004993694	0.014838006
		-		
ENSMMUG00000023469	heat shock protein 90 beta family member 1 [Source:NCBI gene;Acc:699568]	1.313068038	0.000466072	0.001826598
		-		
ENSMMUG00000021291	thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]	1.372803326	0.000239329	0.001002895
		-		
ENSMMUG00000021292	glycosyltransferase 8 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73004]	0.959963866	0.007757784	0.021744081
		-		
ENSMMUG00000057796	host cell factor C2 [Source:NCBI gene;Acc:700316]	0.372804006	0.012218671	0.032179523
		-		
ENSMMUG00000022570	nuclear transcription factor Y subunit beta [Source:NCBI gene;Acc:700451]	0.938041014	0.000131273	0.000583309
		-		
ENSMMUG00000012091	thioredoxin reductase 1 [Source:VGNC Symbol;Acc:VGNC:78679]	1.036820089	2.37E-09	2.45E-08
ENSMMUG00000017127	carbohydrate sulfotransferase 11 [Source:VGNC Symbol;Acc:VGNC:82123]	0.907205792	0.002311485	0.007537231
ENSMMUG00000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	1.342385838	4.31E-13	7.44E-12
		-		
ENSMMUG00000009519	WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]	1.232723273	1.21E-05	6.71E-05
		-		
ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]	1.262585345	1.19E-05	6.62E-05
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	2.580267861	7.48E-17	1.90E-15
		-		
ENSMMUG00000022118	regulatory factor X4 [Source:VGNC Symbol;Acc:VGNC:76909]	1.411317748	2.60E-05	0.000134511
		-		
ENSMMUG00000022278	mitochondrial transcription termination factor 2 [Source:VGNC Symbol;Acc:VGNC:74868]	0.857660756	0.017001865	0.042569248
		-		
ENSMMUG00000021808	cryptochrome circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:71499]	1.114691599	3.64E-09	3.65E-08
		-		
ENSMMUG00000015540	BTB domain containing 11 [Source:VGNC Symbol;Acc:VGNC:70367]	1.578359209	0.001465528	0.005053192
		-		
ENSMMUG00000015544	PWP1 homolog, endonuclein [Source:NCBI gene;Acc:705262]	2.551902908	0.001258171	0.004418345
		-		
ENSMMUG00000015550	PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]	2.384679114	7.95E-09	7.57E-08
ENSMMUG00000021049	ret finger protein-like 3 [Source:NCBI gene;Acc:705507]	-3.4658309	1.36E-05	7.49E-05
ENSMMUG00000017124	spliceosome associated factor 3, U4/U6 recycling protein [Source:VGNC Symbol;Acc:VGNC:77029]	2.71775654	1.03E-19	3.46E-18
ENSMMUG00000017126	iron-sulfur cluster assembly enzyme [Source:VGNC Symbol;Acc:VGNC:73686]	2.407482863	0.012931223	0.033756387
ENSMMUG00000054621		3.318090527	3.09E-07	2.28E-06
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	1.543232624	1.86E-13	3.34E-12
ENSMMUG00000015108	SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]	1.248922832	8.86E-10	9.78E-09
ENSMMUG00000056729	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.38228274	2.03E-13	3.63E-12
		-		
ENSMMUG00000058267	glycolipid transfer protein [Source:NCBI gene;Acc:701777]	1.337879586	0.002391132	0.007769606
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	1.194967368	1.04E-15	2.35E-14
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	1.341570946	4.86E-27	3.72E-25
ENSMMUG00000003297	coiled-coil domain containing 63 [Source:VGNC Symbol;Acc:VGNC:70879]	0.839783385	0.000155294	0.000676361
ENSMMUG00000002347	myosin light chain 2 [Source:VGNC Symbol;Acc:VGNC:75103]	0.551077569	0.013244795	0.034435539
ENSMMUG00000008336	acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]	0.999149575	2.08E-16	5.06E-15
ENSMMUG00000053496		0.812507903	0.004266364	0.012946629

ENSMMUG00000060754	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.148968686	3.79E-15	8.20E-14
ENSMMUG00000060917		1.008251048	1.79E-05	9.65E-05
ENSMMUG00000043209	transmembrane protein 116 [Source:NCBI gene;Acc:107001019]	0.751245696	2.82E-05	0.000144887
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	1.510911272	3.35E-12	5.16E-11
ENSMMUG00000013253	protein tyrosine phosphatase non-receptor type 11 [Source:NCBI gene;Acc:712044]	0.723162191	0.00327533	0.010262655
		-		
ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]	1.012270039	0.000162856	0.000707219
ENSMMUG00000004435	two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]	0.810191615	0.003449687	0.01072288
		-		
ENSMMUG00000004205	phospholipase B domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76122]	2.909077746	3.31E-06	2.03E-05
		-		
ENSMMUG00000004208	serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]	2.284501147	1.72E-05	9.29E-05
		-		
ENSMMUG00000061944	LIM homeobox 5 [Source:NCBI gene;Acc:713417]	1.414224048	0.000121482	0.000543135
ENSMMUG00000051363		1.837073575	4.95E-13	8.49E-12
ENSMMUG00000054768		0.959312957	1.37E-08	1.26E-07
ENSMMUG00000057506		0.819019091	1.77E-06	1.15E-05
ENSMMUG00000052680		0.843637655	2.62E-11	3.55E-10
		-		
ENSMMUG00000017478	tescalcin [Source:VGNC Symbol;Acc:VGNC:79571]	0.740873961	8.81E-05	0.000407428
		-		
ENSMMUG00000014027	nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]	1.598809873	2.05E-07	1.57E-06
		-		
ENSMMUG00000062615		1.702539655	2.12E-06	1.36E-05
		-		
ENSMMUG00000005421	kinase suppressor of ras 2 [Source:VGNC Symbol;Acc:VGNC:74075]	0.976400729	0.004613622	0.013869858
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	1.110854141	2.00E-12	3.17E-11
ENSMMUG00000057515		0.846461517	0.019384608	0.047563491
ENSMMUG00000053710		0.986958139	7.69E-13	1.29E-11
ENSMMUG00000011209	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	1.579786003	2.12E-15	4.67E-14
ENSMMUG00000055209		1.749808829	4.32E-17	1.13E-15
		-		
ENSMMUG00000063609	cytochrome c oxidase subunit 6A1, mitochondrial [Source:NCBI gene;Acc:696956]	2.636023325	0.005351743	0.015728568
		-		
ENSMMUG00000046665	glutamyl-tRNA amidotransferase subunit C [Source:NCBI gene;Acc:702258]	2.219800187	2.76E-07	2.06E-06
		-		
ENSMMUG00000052631		2.976457248	0.010635661	0.02850142
		-		
ENSMMUG00000049873		3.124569703	0.010571566	0.028365536
ENSMMUG00000046646	Y RNA [Source:RFAM;Acc:RF00019]	0.5482755	0.008381076	0.023266822
		-		
ENSMMUG00000004223	ring finger protein 10 [Source:VGNC Symbol;Acc:VGNC:76702]	0.764651085	1.94E-06	1.25E-05
		-		
ENSMMUG00000049342	POP5 homolog, ribonuclease P/MRP subunit [Source:NCBI gene;Acc:697559]	1.828291519	0.006802451	0.01938888
		-		
ENSMMUG00000055513		1.524217532	0.006140348	0.017740377
ENSMMUG00000058536		2.613061808	3.88E-28	3.25E-26
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	2.233455791	3.50E-19	1.10E-17
		-		
ENSMMUG00000065224	unc-119 lipid binding chaperone B [Source:NCBI gene;Acc:698066]	1.360795198	0.009640681	0.02620922
ENSMMUG00000006435	HNF1 homeobox A [Source:NCBI gene;Acc:107001057]	0.898459942	0.000176078	0.000758859
ENSMMUG00000039520	chromosome 11 C12orf43 homolog [Source:NCBI gene;Acc:698821]	1.239679523	6.81E-11	8.81E-10
		-		
ENSMMUG00000060614		0.480305383	0.008843588	0.024354766

ENSMMUG00000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	2.281593959	6.35E-12	9.33E-11
ENSMMUG00000059782		3.002394334	1.83E-14	3.69E-13
ENSMMUG00000038707	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.979892913	0.00877256	0.0241986
ENSMMUG00000041124	MORN repeat containing 3 [Source:NCBI gene;Acc:700317]	0.739312942	0.017568712	0.04372288
ENSMMUG00000063813	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.290016608	0.008432768	0.023392809
ENSMMUG00000012842	SET domain containing 1B, histone lysine methyltransferase [Source:NCBI gene;Acc:703717]	2.428089651	7.07E-05	0.00033275
ENSMMUG00000016454	4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]	1.257255337	2.84E-23	1.46E-21
		-		
ENSMMUG00000046409	VPS33A core subunit of CORVET and HOPS complexes [Source:NCBI gene;Acc:702257]	0.398316913	0.010637788	0.028501969
		-		
ENSMMUG00000013643	zinc finger CCHC-type containing 8 [Source:VGNC Symbol;Acc:VGNC:79487]	1.309970584	0.006277903	0.018084947
		-		
ENSMMUG00000004412	arginine and serine rich coiled-coil 2 [Source:VGNC Symbol;Acc:VGNC:77139]	1.929277764	0.000182177	0.000783323
ENSMMUG00000007556	kinetochore associated 1 [Source:VGNC Symbol;Acc:VGNC:74064]	0.62997266	0.000655193	0.002469881
ENSMMUG00000017102	coiled-coil domain containing 62 [Source:NCBI gene;Acc:707179]	0.899702177	7.50E-05	0.000350854
ENSMMUG00000015221	huntingtin interacting protein 1 related [Source:VGNC Symbol;Acc:VGNC:73412]	0.996593892	2.65E-05	0.000137202
ENSMMUG00000039447	VPS37B subunit of ESCRT-I [Source:NCBI gene;Acc:703415]	1.200009079	0.009044321	0.024829188
		-		
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	1.465463677	7.37E-13	1.24E-11
ENSMMUG00000015926	2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]	1.885014114	2.09E-10	2.53E-09
ENSMMUG00000015930	ADP ribosylation factor like GTPase 6 interacting protein 4 [Source:VGNC Symbol;Acc:VGNC:69860]	1.702084819	2.84E-05	0.000145897
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	1.614846864	8.69E-14	1.64E-12
		-		
ENSMMUG00000019678	M-phase phosphoprotein 9 [Source:VGNC Symbol;Acc:VGNC:74918]	0.661403609	0.00154799	0.005300551
		-		
ENSMMUG00000031495	chromosome 11 C12orf65 homolog [Source:NCBI gene;Acc:708974]	1.476803063	0.007676144	0.02153968
		-		
ENSMMUG00000000434	cyclin dependent kinase 2 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:70944]	1.689636101	1.02E-06	6.90E-06
		-		
ENSMMUG00000013514	lysine methyltransferase 5A [Source:VGNC Symbol;Acc:VGNC:74159]	0.415699205	0.006174237	0.01782787
ENSMMUG00000023048	cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]	1.853355607	3.59E-09	3.61E-08
		-		
ENSMMUG00000058836	transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]	1.217407016	3.68E-07	2.68E-06
		-		
ENSMMUG00000004592	general transcription factor IIH subunit 3 [Source:NCBI gene;Acc:106992484]	3.070630648	0.013323396	0.03461562
ENSMMUG00000064225	tectonic family member 2 [Source:NCBI gene;Acc:721415]	0.583337255	1.99E-05	0.000106031
		-		
ENSMMUG00000006546	ATPase H+ transporting V0 subunit a2 [Source:VGNC Symbol;Acc:VGNC:70096]	0.403914746	0.000567749	0.002174513
		-		
ENSMMUG00000054430		1.025661562	0.014230074	0.036542337
		-		
ENSMMUG00000006861	dynein axonemal heavy chain 10 [Source:NCBI gene;Acc:710343]	0.745311191	0.000109896	0.000496725
ENSMMUG00000046631	refilin A [Source:NCBI gene;Acc:706153]	-2.15654871	0.012665479	0.033161909
ENSMMUG00000017902	DEAH-box helicase 37 [Source:VGNC Symbol;Acc:VGNC:71639]	2.691963446	0.012520413	0.032828451
		-		
ENSMMUG00000020804	transmembrane protein 132B [Source:NCBI gene;Acc:707118]	0.769651133	0.014961705	0.038189689
		-		
ENSMMUG00000050145	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.693576927	0.001086018	0.003876208
		-		
ENSMMUG00000020926	syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]	4.361178827	7.93E-07	5.48E-06
		-		
ENSMMUG00000058674		3.595666006	0.004406523	0.013314738
		-		
ENSMMUG00000003735	polypeptide N-acetylgalactosaminyltransferase 9 [Source:NCBI gene;Acc:710382]	0.872188518	0.011654429	0.030902053
ENSMMUG00000017026	fibrosin like 1 [Source:NCBI gene;Acc:696295]	0.869947273	0.000332387	0.00134717

ENSMMUG00000015463	DNA polymerase epsilon, catalytic subunit [Source:NCBI gene;Acc:698023]	0.746180468	7.24E-06	4.18E-05
ENSMMUG00000015468	checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]	2.059309298	0.00036877	0.001480469
ENSMMUG00000013867	zinc finger protein 84 [Source:VGNC Symbol;Acc:VGNC:78909]	2.472563399	0.018457425	0.045612999
ENSMMUG00000009615	IMP U3 small nucleolar ribonucleoprotein 4 [Source:VGNC Symbol;Acc:VGNC:73689]	0.946850871	7.00E-06	4.05E-05
ENSMMUG00000021159	tubulin alpha 3e [Source:NCBI gene;Acc:718034]	0.966410389	0.000395299	0.001577401
ENSMMUG00000061826	family with sequence similarity 168 member B [Source:NCBI gene;Acc:703758]	0.854695243	0.000797508	0.002936938
ENSMMUG00000023321	UDP-glucose glycoprotein glucosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:78981]	0.614276438	0.002534972	0.008181422
ENSMMUG00000049232	AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]	4.443617047	0.000819606	0.003009349
ENSMMUG00000001989	RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]	4.836963104	1.98E-05	0.000105489
ENSMMUG00000027543	Y RNA [Source:RFAM;Acc:RF00019]	4.615892424	0.000262456	0.001089371
ENSMMUG00000004179	LIM zinc finger domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74054]	0.495134382	0.002232794	0.007307952
ENSMMUG00000004177	myosin VIIB [Source:NCBI gene;Acc:714563]	0.754927406	4.76E-17	1.24E-15
ENSMMUG000000056151		2.261527186	0.000167256	0.000724206
ENSMMUG00000000376	bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]	2.475777202	1.05E-05	5.86E-05
ENSMMUG000000021119	translin [Source:VGNC Symbol;Acc:VGNC:78663]	0.550996192	0.002973126	0.009426871
ENSMMUG00000020928	nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]	1.092414772	2.60E-05	0.000134511
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	2.174968701	5.38E-18	1.54E-16
ENSMMUG000000059182		2.258299756	1.89E-22	8.94E-21
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	2.218285714	1.60E-20	6.05E-19
ENSMMUG000000059504		2.740905142	3.07E-16	7.30E-15
ENSMMUG000000051751		0.516785762	0.015218386	0.038704967
ENSMMUG000000005610	protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]	1.403274758	6.10E-06	3.57E-05
ENSMMUG00000006446	transmembrane protein 177 [Source:VGNC Symbol;Acc:VGNC:79686]	3.367674749	1.32E-05	7.25E-05
ENSMMUG00000011129	cilia and flagella associated protein 221 [Source:VGNC Symbol;Acc:VGNC:71153]	2.934199176	0.001749052	0.005911223
ENSMMUG00000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]	1.375657055	1.82E-11	2.52E-10
ENSMMUG00000043114	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.82703525	0.002381538	0.007743522
ENSMMUG00000012248	UBX domain protein 4 [Source:VGNC Symbol;Acc:VGNC:78968]	-1.31390356	0.007028994	0.019950237
ENSMMUG00000012250	lactase [Source:VGNC Symbol;Acc:VGNC:74244]	1.148235012	1.48E-05	8.07E-05
ENSMMUG00000017486	minichromosome maintenance complex component 6 [Source:VGNC Symbol;Acc:VGNC:74685]	1.542396423	2.65E-09	2.72E-08
ENSMMUG00000040854	aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]	1.153736632	1.88E-05	0.000100407
ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.614847027	7.14E-08	5.88E-07
ENSMMUG00000016845	zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]	1.907592692	0.006425293	0.018452188
ENSMMUG000000051691		1.798389217	4.17E-05	0.000205758
ENSMMUG000000050074		1.094050503	0.002468458	0.007991102
ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	0.868739469	7.62E-09	7.29E-08
ENSMMUG00000010526	calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]	0.908998985	0.00400936	0.012259548
ENSMMUG00000014176	cytohesin 1 interacting protein [Source:VGNC Symbol;Acc:VGNC:71831]	1.209909875	3.66E-05	0.000183102
ENSMMUG00000011638	plakophilin 4 [Source:VGNC Symbol;Acc:VGNC:76153]	1.730514724	0.001288685	0.00451588

ENSMMUG0000006443		-	2.490587728	0.016481197	0.041455618
ENSMMUG00000052818	death associated protein like 1 [Source:NCBI gene;Acc:699071]	-	2.805155134	0.000100095	0.00045787
ENSMMUG00000057379		-	1.220731387	0.002790147	0.008909964
ENSMMUG0000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	-	2.123041239	4.12E-27	3.18E-25
ENSMMUG00000055201	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	2.982754806	0.000910655	0.003301152
ENSMMUG00000061606	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.079983118	6.39E-07	4.50E-06
ENSMMUG0000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	-	1.684093407	1.64E-16	4.02E-15
ENSMMUG00000063868	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.767268829	1.74E-07	1.35E-06
ENSMMUG0000006182	bromodomain adjacent to zinc finger domain 2B [Source:NCBI gene;Acc:702780]	-	0.779007117	2.95E-08	2.58E-07
ENSMMUG00000051450	phospholipase A2 receptor 1 [Source:NCBI gene;Acc:700191]	-	0.961188903	3.83E-14	7.41E-13
ENSMMUG00000002678	integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]	-	-1.55319569	3.60E-08	3.08E-07
ENSMMUG00000055970		-	0.620957385	0.014892736	0.038033283
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	-	1.522716052	9.52E-16	2.17E-14
ENSMMUG00000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	-	3.093738815	5.04E-41	1.49E-38
ENSMMUG00000018510	sodium voltage-gated channel alpha subunit 9 [Source:VGNC Symbol;Acc:VGNC:76990]	-	2.301375718	0.001883222	0.006318595
ENSMMUG00000013251	xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]	-	2.449503259	4.81E-05	0.000234438
ENSMMUG00000063463		-	2.193574995	9.37E-13	1.55E-11
ENSMMUG00000021775	beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]	-	1.644742393	1.53E-07	1.19E-06
ENSMMUG0000006215	serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]	-	1.628037586	2.37E-08	2.11E-07
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	-	1.989095979	2.11E-13	3.77E-12
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	-	1.964782223	6.78E-08	5.61E-07
ENSMMUG00000020510	kelch like family member 41 [Source:VGNC Symbol;Acc:VGNC:74062]	-	0.521080433	0.006854973	0.019512332
ENSMMUG00000020511	FAST kinase domains 1 [Source:VGNC Symbol;Acc:VGNC:72580]	-	1.144653444	0.005029871	0.014927554
ENSMMUG00000031398	coiled-coil domain containing 173 [Source:NCBI gene;Acc:709886]	-	1.047052906	0.002824919	0.009003558
ENSMMUG00000016256	myosin IIIB [Source:VGNC Symbol;Acc:VGNC:74961]	-	2.321120136	0.014729645	0.03768817
ENSMMUG00000015198	glutamate decarboxylase 1 [Source:VGNC Symbol;Acc:VGNC:72862]	-	0.861777774	5.30E-05	0.000256428
ENSMMUG00000015203	golgi reassembly stacking protein 2 [Source:VGNC Symbol;Acc:VGNC:72957]	-	0.845880613	0.001619408	0.005512008
ENSMMUG00000011189	tousled like kinase 1 [Source:VGNC Symbol;Acc:VGNC:78367]	-	1.103999507	1.32E-06	8.75E-06
ENSMMUG00000055482		-	2.201939013	0.002598113	0.008361547
ENSMMUG00000054176	methyltransferase like 8 [Source:NCBI gene;Acc:695361]	-	1.520329916	3.10E-06	1.92E-05
ENSMMUG00000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	-	2.145424105	5.65E-25	3.39E-23
ENSMMUG00000007301	dynein cytoplasmic 1 intermediate chain 2 [Source:VGNC Symbol;Acc:VGNC:71953]	-	0.691553459	6.74E-05	0.000318665
ENSMMUG00000007310	solute carrier family 25 member 12 [Source:VGNC Symbol;Acc:VGNC:77430]	-	0.842989671	3.56E-05	0.000178713
ENSMMUG00000007313	histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]	-	2.327413188	3.07E-07	2.26E-06
ENSMMUG00000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	-	0.976367909	1.59E-06	1.04E-05

ENSMMUG00000054462		-	1.104830423	1.00E-05	5.64E-05
ENSMMUG00000020792	Rap guanine nucleotide exchange factor 4 [Source:VGNC Symbol;Acc:VGNC:76490]	-	0.847453824	0.001964251	0.006551922
ENSMMUG00000049482		-	0.767668757	0.004553024	0.013709919
ENSMMUG00000023005	Sp9 transcription factor [Source:VGNC Symbol;Acc:VGNC:78027]	-	0.725885844	0.010076772	0.027225092
ENSMMUG00000023006	corepressor interacting with RBPJ, 1 [Source:VGNC Symbol;Acc:VGNC:71331]	-	1.631179985	6.98E-05	0.00032881
ENSMMUG00000021012	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	-	0.585078736	1.05E-05	5.87E-05
ENSMMUG00000053004		-	0.641485815	0.002033605	0.006749856
ENSMMUG00000009593	WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]	-	1.851420638	1.10E-17	3.06E-16
ENSMMUG00000033245	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	0.920558849	0.007647698	0.021465446
ENSMMUG00000052177		-	2.410742533	0.002698944	0.008652257
ENSMMUG00000065344	homeobox D1 [Source:NCBI gene;Acc:701064]	-	-1.7410707	1.06E-11	1.51E-10
ENSMMUG00000008502	alkylglycerone phosphate synthase [Source:VGNC Symbol;Acc:VGNC:69747]	-	0.383391301	0.011656732	0.030902634
ENSMMUG00000002183	oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]	-	1.235787431	2.41E-06	1.52E-05
ENSMMUG00000059250	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	3.161597886	0.006022471	0.017440586
ENSMMUG00000002185	protein activator of interferon induced protein kinase EIF2AK2 [Source:VGNC Symbol;Acc:VGNC:76421]	-	0.753775849	2.20E-06	1.40E-05
ENSMMUG00000054264	pejvakin [Source:NCBI gene;Acc:708668]	-	0.836122083	1.21E-05	6.71E-05
ENSMMUG00000009038	titin [Source:NCBI gene;Acc:703527]	-	1.367529491	0.000550619	0.002119856
ENSMMUG00000019690	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	-	3.078967048	4.15E-19	1.30E-17
ENSMMUG00000053406		-	4.112301632	1.64E-07	1.28E-06
ENSMMUG00000052229		-	1.226127834	0.006202194	0.017898138
ENSMMUG00000014277	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	-	1.796018045	1.54E-42	6.00E-40
ENSMMUG00000014394	DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]	-	0.860028571	3.02E-05	0.000154458
ENSMMUG00000014397	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	-	2.572459686	6.12E-13	1.04E-11
ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]	-	1.256930429	2.36E-13	4.16E-12
ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]	-	2.631567268	2.36E-19	7.62E-18
ENSMMUG00000014314	ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]	-	0.754392567	0.005870888	0.017054902
ENSMMUG00000014318	PMS1 homolog 1, mismatch repair system component [Source:VGNC Symbol;Acc:VGNC:81506]	-	1.780491574	0.006788706	0.019357144
ENSMMUG00000061305		-	1.424228255	2.22E-07	1.69E-06
ENSMMUG00000003260		-	1.893978955	1.35E-19	4.47E-18
ENSMMUG00000051366		-	1.142711562	0.000107794	0.000488265
ENSMMUG00000059380		-	0.310549019	0.012093434	0.031883666
ENSMMUG00000005612	glutaminase [Source:NCBI gene;Acc:693520]	-	1.975594256	0.000216019	0.000914258
ENSMMUG00000005613	signal transducer and activator of transcription 1 [Source:VGNC Symbol;Acc:VGNC:77904]	-	0.404927907	0.013059998	0.034008738

ENSMMUG00000001761	myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]	0.519635978	0.01974744	0.048325832
ENSMMUG000000037175	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.103887346	0.015299395	0.038897656
ENSMMUG000000001475	transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]	1.506868965	0.005416196	0.015899088
ENSMMUG000000061797	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.856729488	3.13E-05	0.000158946
ENSMMUG000000061123	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.018360382	1.45E-06	9.56E-06
ENSMMUG000000005622	dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]	0.741177568	0.006832254	0.019458867
		-		
ENSMMUG000000057432	serine/threonine kinase 17b [Source:NCBI gene;Acc:696908]	0.735161114	0.017117441	0.042793602
		-		
ENSMMUG000000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	1.359105487	3.55E-10	4.14E-09
		-		
ENSMMUG000000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	1.810246811	1.20E-17	3.35E-16
		-		
ENSMMUG000000043369	post-GPI attachment to proteins inositol deacylase 1 [Source:NCBI gene;Acc:696475]	1.130265531	0.003283395	0.010281407
		-		
ENSMMUG000000016547	heat shock protein family E (Hsp10) member 1 [Source:NCBI gene;Acc:100425423]	1.691944369	0.009834462	0.026672472
		-		
ENSMMUG000000023809	raftlin family member 2 [Source:VGNC Symbol;Acc:VGNC:76837]	0.889887549	0.006911159	0.019664715
		-		
ENSMMUG000000065120	glutamate dehydrogenase 1, mitochondrial-like [Source:NCBI gene;Acc:697678]	1.075319421	0.009210809	0.025224423
ENSMMUG000000023810	methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]	-1.18194967	1.47E-07	1.16E-06
		-		
ENSMMUG000000023811	boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]	1.108743884	0.000152911	0.000667749
		-		
ENSMMUG000000051936		3.346226898	1.99E-08	1.78E-07
		-		
ENSMMUG000000050082		0.539747775	0.019802184	0.048435823
		-		
ENSMMUG000000047974	aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]	0.758149072	3.79E-06	2.30E-05
ENSMMUG000000005835	aldehyde oxidase 2 [Source:NCBI gene;Acc:701613]	-1.36796616	0.010340683	0.027856918
		-		
ENSMMUG000000022202	basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]	2.043178324	9.60E-15	2.01E-13
		-		
ENSMMUG000000006639	NGG1 interacting factor 3 like 1 [Source:VGNC Symbol;Acc:VGNC:75166]	1.858053664	0.002427657	0.007879469
		-		
ENSMMUG000000014460	origin recognition complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:75714]	2.194881384	0.006184875	0.017855109
		-		
ENSMMUG000000053805	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.104413121	0.000248163	0.001036986
		-		
ENSMMUG000000012224	family with sequence similarity 126 member B [Source:VGNC Symbol;Acc:VGNC:72393]	1.846925524	5.69E-07	4.03E-06
		-		
ENSMMUG000000012310	CASP8 and FADD like apoptosis regulator [Source:VGNC Symbol;Acc:VGNC:71019]	2.223821461	0.000246618	0.001031111
		-		
ENSMMUG000000031296	caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]	1.156300243	1.99E-06	1.28E-05
		-		
ENSMMUG000000018356	flagellum associated containing coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:72508]	1.877489217	6.70E-06	3.89E-05
ENSMMUG000000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	2.211807449	8.26E-27	6.16E-25
ENSMMUG000000018151	membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]	1.983194212	0.009769871	0.026516689
ENSMMUG000000000582	NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]	1.302023306	4.70E-11	6.20E-10
ENSMMUG000000035551	small nucleolar RNA, C/D box 11B [Source:HGNC Symbol;Acc:HGNC:33571]	1.418011844	0.000759938	0.002811146
ENSMMUG000000061021		1.512176667	3.13E-06	1.93E-05
ENSMMUG000000038427	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.386463885	0.016311301	0.041107583
		-		
ENSMMUG000000000314	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1 [Source:NCBI gene;Acc:705065]	1.791439938	0.016911014	0.042391875

ENSMMUG00000014814	par-3 family cell polarity regulator beta [Source:VGNC Symbol;Acc:VGNC:75602]	2.728825251	0.018164939	0.04501772
ENSMMUG00000059518		1.916178671	0.007118279	0.020153508
ENSMMUG00000056824		2.910378179	1.41E-06	9.31E-06
ENSMMUG00000022601	cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]	1.761732887	2.87E-08	2.51E-07
ENSMMUG00000022602	methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]	1.752279645	1.16E-06	7.75E-06
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	2.203602044	2.70E-16	6.48E-15
ENSMMUG00000057651	frizzled class receptor 5 [Source:NCBI gene;Acc:710796]	-3.88702474	1.81E-07	1.40E-06
ENSMMUG00000008113	pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]	2.182667402	6.48E-07	4.56E-06
ENSMMUG00000056938	crystallin, gamma C [Source:NCBI gene;Acc:709553]	3.338312223	0.010076082	0.027225092
ENSMMUG00000014299	chromosome 12 C2orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70459]	2.224768457	0.003156003	0.009932837
ENSMMUG00000016077	isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]	1.483605614	0.00227704	0.007433084
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	1.917484429	1.63E-06	1.07E-05
ENSMMUG00000005295	parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]	1.514962289	0.017323583	0.043199721
ENSMMUG00000002809	unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]	1.369630562	4.21E-08	3.57E-07
ENSMMUG00000010513	ribulose-5-phosphate-3-epimerase [Source:NCBI gene;Acc:711322]	1.986526583	5.29E-09	5.17E-08
ENSMMUG00000010515	KAT8 regulatory NSL complex subunit 1 like [Source:VGNC Symbol;Acc:VGNC:73913]	2.182916173	2.72E-09	2.79E-08
ENSMMUG00000010508	carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]	1.975894663	0.00040786	0.001622469
ENSMMUG00000059604		0.416315049	0.016475439	0.041454151
ENSMMUG00000061342		2.427379213	2.45E-27	1.95E-25
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	1.456628776	7.27E-25	4.33E-23
ENSMMUG00000000382	sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]	0.602436686	0.000107632	0.000487832
ENSMMUG00000064880		0.782129483	1.77E-05	9.56E-05
ENSMMUG00000053721		1.944882321	1.20E-09	1.30E-08
ENSMMUG00000006744	serine/threonine kinase 36 [Source:VGNC Symbol;Acc:VGNC:78145]	3.193186793	0.006665194	0.019044429
ENSMMUG00000006755	tubulin tyrosine ligase like 4 [Source:VGNC Symbol;Acc:VGNC:79758]	1.201724922	9.31E-07	6.35E-06
ENSMMUG00000006758	cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]	2.142799296	2.21E-05	0.000116282
ENSMMUG00000021877	protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]	2.274939239	3.50E-05	0.000176284
ENSMMUG00000052954	Wnt family member 6 [Source:NCBI gene;Acc:700573]	2.461051361	0.000116775	0.000523196
ENSMMUG00000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	1.000023075	5.45E-12	8.13E-11
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	1.202946053	1.37E-11	1.93E-10
ENSMMUG00000061834		1.332690172	6.37E-12	9.35E-11
ENSMMUG00000046282		1.158119278	1.22E-13	2.25E-12
ENSMMUG00000051349		2.750448623	0.009856411	0.026717148

ENSMMUG00000018139	dedicator of cytokinesis 10 [Source:VGNC Symbol;Acc:VGNC:71888]	0.667061478	1.14E-12	1.86E-11
ENSMMUG00000051482		-		
ENSMMUG00000054072		2.130775663	1.26E-08	1.16E-07
ENSMMUG00000045544	neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]	0.842679553	7.81E-12	1.13E-10
ENSMMUG0000000722	rhomboid domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76803]	0.760161707	3.43E-07	2.51E-06
ENSMMUG00000013233	collagen type IV alpha 4 chain [Source:VGNC Symbol;Acc:VGNC:71299]	-		
ENSMMUG00000013235	collagen type IV alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:81375]	0.526501722	0.015950143	0.040307144
ENSMMUG0000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	1.121810593	7.15E-05	0.000335874
ENSMMUG00000022831	COP9 signalosome subunit 7B [Source:VGNC Symbol;Acc:VGNC:71186]	-1.07917352	1.49E-07	1.17E-06
ENSMMUG00000015167	DIS3 like 3'-5' exoribonuclease 2 [Source:VGNC Symbol;Acc:VGNC:71793]	-		
ENSMMUG00000016871	alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]	1.914498654	4.15E-09	4.13E-08
ENSMMUG00000051779		-		
ENSMMUG00000023359	S-antigen visual arrestin [Source:VGNC Symbol;Acc:VGNC:76965]	2.898094889	0.010384315	0.027946798
ENSMMUG0000005650	ubiquitin specific peptidase 40 [Source:VGNC Symbol;Acc:VGNC:79226]	-		
ENSMMUG00000021216	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]	1.378810736	0.000104651	0.000475772
ENSMMUG00000057588		-		
ENSMMUG00000064179	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.449461786	3.96E-06	2.40E-05
ENSMMUG00000051807		0.747173595	2.82E-05	0.000144877
ENSMMUG00000061244		-		
ENSMMUG00000011516	ADP ribosylation factor like GTPase 4C [Source:VGNC Symbol;Acc:VGNC:70018]	0.799213136	0.000498945	0.001941578
ENSMMUG00000054449	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-		
ENSMMUG00000017404	IQ motif containing with AAA domain 1 [Source:VGNC Symbol;Acc:VGNC:73660]	0.444590383	0.011475965	0.030480352
ENSMMUG00000060487	atypical chemokine receptor 3 [Source:NCBI gene;Acc:694428]	-		
ENSMMUG00000061673		0.985116159	9.07E-07	6.20E-06
ENSMMUG00000014049	collagen type VI alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:71303]	1.846562905	0.014821621	0.03787776
ENSMMUG00000031293	anoctamin-9 [Source:NCBI gene;Acc:100425888]	2.282414138	0.01419278	0.036494376
ENSMMUG00000059353	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]	1.750089516	1.93E-13	3.46E-12
ENSMMUG00000056711	ribonuclease inhibitor-like [Source:NCBI gene;Acc:114672186]	1.813307928	3.03E-05	0.000154458
ENSMMUG00000062863		2.317302464	9.08E-06	5.14E-05
ENSMMUG00000004622	NLR family pyrin domain containing 6 [Source:VGNC Symbol;Acc:VGNC:75234]	1.404149433	0.000269932	0.001116688
ENSMMUG00000004625	protein-glucosylgalactosylhydroxylysine glucosidase [Source:VGNC Symbol;Acc:VGNC:75870]	-2.48192491	0.0022624	0.007391803
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	-		
ENSMMUG00000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	1.884705542	5.21E-06	3.09E-05
ENSMMUG00000010783	ribonuclease inhibitor [Source:NCBI gene;Acc:720791]	0.530495468	0.000522346	0.002020448
ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	-		
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	1.673564291	5.10E-06	3.02E-05
ENSMMUG00000004014	interferon regulatory factor 7 [Source:VGNC Symbol;Acc:VGNC:73765]	0.694219973	3.33E-08	2.87E-07
ENSMMUG00000004024	cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]	-		
		0.680428474	6.70E-07	4.69E-06
		-		
		0.516427694	3.66E-05	0.000183134
		2.205273241	3.24E-14	6.33E-13
		-		
		1.737883177	0.000858124	0.003133704
		-		
		2.311307226	0.017197667	0.042943494
		2.10680162	5.70E-22	2.55E-20
		3.223290088	5.78E-15	1.24E-13
		0.407729015	0.019539573	0.047872438
		1.951580894	1.79E-13	3.22E-12
		2.004497245	1.85E-26	1.31E-24
		1.111458063	0.000100304	0.000458539
		0.862229659	0.001026856	0.003686341

ENSMMUG00000007510	transaldolase 1 [Source:VGNC Symbol;Acc:VGNC:78096]	0.772038633	3.79E-06	2.30E-05
ENSMMUG00000007511	glutamine amidotransferase like class 1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:82149]	0.715716121	0.000148274	0.000649692
ENSMMUG000000042839		0.895578369	2.06E-06	1.32E-05
ENSMMUG000000016715	p53-induced death domain protein 1 [Source:VGNC Symbol;Acc:VGNC:81498]	0.859411441	2.32E-09	2.40E-08
ENSMMUG000000043846		0.697025967	8.37E-07	5.75E-06
		-		
ENSMMUG000000010544	mucin 5B, oligomeric mucus/gel-forming [Source:VGNC Symbol;Acc:VGNC:75081]	0.683843479	0.000725119	0.00269647
ENSMMUG000000017450	MOB kinase activator 2 [Source:NCBI gene;Acc:720951]	1.931455803	8.74E-07	5.99E-06
ENSMMUG000000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	3.654607373	2.10E-20	7.70E-19
		-		
ENSMMUG0000000031267	insulin [Source:NCBI gene;Acc:704534]	0.999491476	0.001384298	0.004812267
ENSMMUG000000001324	tetraspanin 32 [Source:VGNC Symbol;Acc:VGNC:78920]	1.225829431	0.017677754	0.043957259
		-		
ENSMMUG000000004773	transient receptor potential cation channel subfamily M member 5 [Source:VGNC Symbol;Acc:VGNC:78955]	0.844850579	0.00107521	0.003843181
		-		
ENSMMUG000000007742	potassium voltage-gated channel subfamily Q member 1 [Source:VGNC Symbol;Acc:VGNC:82168]	1.055654424	4.13E-05	0.000203841
ENSMMUG000000000511	cysteinyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:70540]	-1.12010599	3.81E-05	0.000189382
ENSMMUG000000051131	MAS related GPR family member G [Source:NCBI gene;Acc:721253]	0.79159156	0.000359843	0.001447376
ENSMMUG000000052168		2.507863546	1.05E-14	2.18E-13
ENSMMUG000000044640		2.87015272	0.008468618	0.023457155
ENSMMUG000000060517		2.420050777	6.48E-16	1.50E-14
ENSMMUG000000001777	testis expressed metallothionein like protein [Source:VGNC Symbol;Acc:VGNC:79965]	0.932523712	0.000252135	0.00105151
		-		
ENSMMUG000000042838	NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial-like [Source:NCBI gene;Acc:721639]	1.579885053	0.000553601	0.002129125
ENSMMUG000000014237	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	2.291278688	1.09E-37	2.28E-35
ENSMMUG000000056342	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.288201475	1.66E-05	8.99E-05
ENSMMUG000000023192	choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]	1.372020834	4.42E-06	2.66E-05
ENSMMUG000000039824	aminoacylase 3 [Source:NCBI gene;Acc:711083]	-0.57306801	0.000163512	0.000709651
		-		
ENSMMUG000000056105	T-box transcription factor 10 [Source:NCBI gene;Acc:721689]	0.731922105	1.69E-05	9.14E-05
		-		
ENSMMUG000000042611	nudix hydrolase 8 [Source:NCBI gene;Acc:721695]	2.595640868	0.009927022	0.026875954
ENSMMUG000000062171		-1.18842276	0.020572831	0.049982811
		-		
ENSMMUG000000011821	phosphatidylinositol transfer protein membrane associated 1 [Source:VGNC Symbol;Acc:VGNC:76007]	1.329072432	0.012229336	0.032190001
ENSMMUG000000011817	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	1.171875609	3.16E-11	4.26E-10
ENSMMUG000000005489	G protein-coupled receptor 152 [Source:VGNC Symbol;Acc:VGNC:72986]	0.963077911	0.003054736	0.009642769
ENSMMUG000000053378		1.323960037	2.64E-09	2.71E-08
ENSMMUG000000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.82831656	1.87E-24	1.06E-22
ENSMMUG000000005486	protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]	1.166315349	8.18E-11	1.05E-09
ENSMMUG000000005483	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	1.166626252	1.76E-13	3.18E-12
ENSMMUG000000005480	carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	1.106938277	3.71E-18	1.08E-16
ENSMMUG000000017280	TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]	1.176598076	1.13E-06	7.60E-06
ENSMMUG000000017278	protein phosphatase 1 catalytic subunit alpha [Source:VGNC Symbol;Acc:VGNC:76366]	0.726049244	0.000348826	0.001406876
ENSMMUG000000017275	RAD9 checkpoint clamp component A [Source:VGNC Symbol;Acc:VGNC:76648]	0.6576904	0.003584779	0.01109628
ENSMMUG000000004523	DNA polymerase delta 4, accessory subunit [Source:NCBI gene;Acc:712632]	1.133396379	3.57E-05	0.000178949
ENSMMUG000000064122		1.08166944	1.52E-07	1.19E-06
ENSMMUG000000015932	slingshot protein phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:78019]	0.892995758	0.000345727	0.001396277
ENSMMUG000000015928	ankyrin repeat domain 13D [Source:VGNC Symbol;Acc:VGNC:69722]	1.343329017	6.76E-05	0.000319321
ENSMMUG000000015925	G protein-coupled receptor kinase 2 [Source:VGNC Symbol;Acc:VGNC:73253]	0.934217163	1.34E-06	8.88E-06
ENSMMUG000000008771	lysine demethylase 2A [Source:VGNC Symbol;Acc:VGNC:73824]	0.941904211	1.08E-09	1.18E-08
		-		
ENSMMUG000000004529	chromosome 14 C11orf80 homolog [Source:NCBI gene;Acc:721782]	0.286605011	0.003232424	0.010149661

ENSMMUG00000062635		-	0.747382295	3.07E-07	2.26E-06
ENSMMUG00000020363	RNA-binding protein 4 [Source:NCBI gene;Acc:713490]		-0.52114961	0.009307995	0.025458791
ENSMMUG00000003387	pellino E3 ubiquitin protein ligase family member 3 [Source:VGNC Symbol;Acc:VGNC:75886]		0.504893015	0.020442002	0.049738292
ENSMMUG00000015984	solute carrier family 29 member 2 [Source:VGNC Symbol;Acc:VGNC:77446]		-0.5511699	0.010438554	0.028064497
ENSMMUG00000015987	Ras and Rab interactor 1 [Source:VGNC Symbol;Acc:VGNC:76769]		1.012495095	2.08E-07	1.58E-06
ENSMMUG00000006950	cornichon family AMPA receptor auxiliary protein 2 [Source:VGNC Symbol;Acc:VGNC:71366]		-1.55392328	3.36E-06	2.06E-05
ENSMMUG000000031202	RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]		1.157213097	1.64E-07	1.28E-06
ENSMMUG00000022520	kinesin light chain 2 [Source:VGNC Symbol;Acc:VGNC:73869]		0.930708073	6.36E-05	0.000302731
ENSMMUG00000022518	phosphofurin acidic cluster sorting protein 1 [Source:VGNC Symbol;Acc:VGNC:75697]		0.650036555	0.002590013	0.008339101
ENSMMUG00000057179	cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]		1.613132598	0.002028148	0.006736269
ENSMMUG00000056794	cystatin E/M [Source:NCBI gene;Acc:714999]		2.556158955	0.010358564	0.027889889
ENSMMUG00000019115	eukaryotic translation initiation factor 1A domain containing [Source:VGNC Symbol;Acc:VGNC:72127]		0.590900592	4.86E-05	0.000236719
ENSMMUG00000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]		1.216964652	1.55E-09	1.66E-08
ENSMMUG00000008651	FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]		1.323304554	1.45E-10	1.79E-09
ENSMMUG00000008649	cathepsin W [Source:VGNC Symbol;Acc:VGNC:71563]		1.654095168	0.00106872	0.003820905
ENSMMUG00000038363	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]		1.837869598	2.09E-21	8.71E-20
ENSMMUG00000050028			1.783335827	1.79E-13	3.22E-12
ENSMMUG00000064005			1.467477731	5.31E-07	3.78E-06
ENSMMUG00000060437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		1.645919344	8.14E-06	4.65E-05
ENSMMUG00000019837	ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]		1.393494061	3.81E-13	6.62E-12
ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]		1.548936668	1.84E-20	6.80E-19
ENSMMUG00000061174			0.757142982	0.00073856	0.002739782
ENSMMUG00000007418	RELA proto-oncogene, NF-kB subunit [Source:VGNC Symbol;Acc:VGNC:76893]		0.328866472	0.007244029	0.02045097
ENSMMUG00000007416	signal-induced proliferation-associated 1 [Source:VGNC Symbol;Acc:VGNC:77218]		0.669709582	0.000275338	0.001135817
ENSMMUG00000007402	potassium two pore domain channel subfamily K member 7 [Source:VGNC Symbol;Acc:VGNC:73996]		2.07812951	2.42E-08	2.14E-07
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]		2.45521734	6.27E-24	3.42E-22
ENSMMUG00000023477			1.853746389	1.28E-26	9.29E-25
ENSMMUG00000052424			1.047468297	2.32E-06	1.46E-05
ENSMMUG00000023300	FERM domain containing 8 [Source:NCBI gene;Acc:716379]		1.686407614	2.37E-08	2.11E-07
ENSMMUG00000023297	solute carrier family 25 member 45 [Source:VGNC Symbol;Acc:VGNC:77576]		1.122177875	0.004429064	0.013369229
ENSMMUG00000056343			1.235110199	9.02E-07	6.17E-06
ENSMMUG00000012316	CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]		2.498757129	5.36E-05	0.000258846
ENSMMUG00000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]		1.361715115	7.02E-14	1.33E-12
ENSMMUG00000018781	synoviolin 1 [Source:VGNC Symbol;Acc:VGNC:78183]		0.690327942	0.010662113	0.028556823
ENSMMUG00000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]		1.285866499	2.72E-10	3.25E-09
ENSMMUG00000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]		2.123776558	3.36E-30	3.31E-28
ENSMMUG00000003976	glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]		1.919822995	6.17E-21	2.43E-19
ENSMMUG00000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]		2.14914923	1.73E-50	1.83E-47
ENSMMUG00000003973	autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]		-1.73443839	6.25E-07	4.41E-06
ENSMMUG00000003972	EH domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72175]		0.538518926	7.84E-05	0.000365092
ENSMMUG00000003971	CDC42 binding protein kinase gamma [Source:VGNC Symbol;Acc:VGNC:70909]		0.492972836	4.98E-05	0.000242201
ENSMMUG00000031160	menin 1 [Source:NCBI gene;Acc:106995582]		0.620738114	2.14E-08	1.91E-07
ENSMMUG00000030597	mitogen-activated protein kinase kinase kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81465]		0.608028308	1.32E-09	1.43E-08
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]		1.622633708	1.02E-21	4.41E-20
ENSMMUG00000007603	coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]		0.751939847	0.001044752	0.003741528

ENSMMUG00000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	1.087394253	1.63E-12	2.62E-11
ENSMMUG00000060596	BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]	0.761739152	0.000565087	0.002165997
		-		
ENSMMUG00000012948	phospholipase C beta 3 [Source:VGNC Symbol;Acc:VGNC:76165]	0.459584142	0.007818871	0.021882216
ENSMMUG00000037977	protein phosphatase 1 regulatory inhibitor subunit 14B [Source:NCBI gene;Acc:722103]	1.12476303	0.000315399	0.001285345
ENSMMUG00000048072	FKBP prolyl isomerase 2 [Source:NCBI gene;Acc:717805]	0.567392241	0.004249339	0.012908171
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	1.571880694	1.54E-22	7.34E-21
ENSMMUG00000012942	DnaJ heat shock protein family (Hsp40) member C4 [Source:NCBI gene;Acc:717847]	1.394878871	1.07E-05	5.97E-05
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	1.57995276	3.65E-23	1.85E-21
ENSMMUG00000012940	tRNA phosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:79242]	1.055324848	1.98E-06	1.27E-05
		-		
ENSMMUG00000012939	fermitin family member 3 [Source:VGNC Symbol;Acc:VGNC:72553]	0.555299743	0.000152767	0.000667512
		-		
ENSMMUG00000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]	1.074378403	2.54E-12	3.98E-11
		-		
ENSMMUG00000056349		2.234652564	0.004140629	0.012616712
ENSMMUG00000000478	OTU deubiquitinase, ubiquitin aldehyde binding 1 [Source:NCBI gene;Acc:717989]	0.764954688	1.72E-10	2.11E-09
		-		
ENSMMUG00000018632	N-alpha-acetyltransferase 40, NatD catalytic subunit [Source:NCBI gene;Acc:722126]	2.232721193	0.001574706	0.005373421
ENSMMUG00000052569		3.498538279	4.82E-12	7.23E-11
ENSMMUG00000014131	microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]	1.09784863	3.83E-05	0.000190243
ENSMMUG00000059969		0.977996982	0.000405107	0.001612383
ENSMMUG00000018152	spindlin interactor and repressor of chromatin binding [Source:VGNC Symbol;Acc:VGNC:77987]	0.604489625	0.001706059	0.005783051
ENSMMUG00000005776	atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]	1.098578575	6.51E-12	9.54E-11
ENSMMUG00000005775	phospholipase A and acyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:76055]	0.422542833	0.000253407	0.00105592
		-		
ENSMMUG00000045105	phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]	1.702271986	9.49E-07	6.46E-06
		-		
ENSMMUG00000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	1.024922472	8.98E-11	1.14E-09
ENSMMUG00000059077	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-0.90340085	0.019091604	0.046906641
		-		
ENSMMUG00000005761	UBX domain protein 1 [Source:VGNC Symbol;Acc:VGNC:79135]	0.949944591	4.81E-05	0.000234566
ENSMMUG00000013949	chromosome 14 C11orf98 homolog [Source:NCBI gene;Acc:100429527]	-0.64587979	0.008367983	0.023243527
ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.794993321	6.91E-15	1.47E-13
ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	2.864318843	2.77E-15	6.04E-14
ENSMMUG00000006655	myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]	2.889440398	3.11E-06	1.92E-05
		-		
ENSMMUG00000049301	diacylglycerol lipase alpha [Source:NCBI gene;Acc:722350]	1.568972917	0.017835249	0.044326586
ENSMMUG00000015280	cleavage and polyadenylation specific factor 7 [Source:VGNC Symbol;Acc:VGNC:71606]	2.205870922	0.000806626	0.002966097
		-		
ENSMMUG00000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	1.066075275	0.000106605	0.000483767
ENSMMUG00000037611	pepsinogen 4, group I (pepsinogen A) [Source:NCBI gene;Acc:694562]	0.343187148	0.014644195	0.037501886
ENSMMUG00000015019	VPS37C subunit of ESCRT-I [Source:VGNC Symbol;Acc:VGNC:79578]	3.303869898	0.000320204	0.001303852
		-		
ENSMMUG00000044417	CD6 molecule [Source:NCBI gene;Acc:695183]	2.491919584	0.00014907	0.000652705
		-		
ENSMMUG00000014535	solute carrier family 15 member 3 [Source:VGNC Symbol;Acc:VGNC:77504]	1.828220599	0.000447564	0.001759643
		-		
ENSMMUG00000052420	transmembrane protein 132A [Source:NCBI gene;Acc:695291]	1.627144631	9.85E-06	5.54E-05
		-		
ENSMMUG00000014531	transmembrane protein 109 [Source:VGNC Symbol;Acc:VGNC:79740]	1.929599584	3.06E-12	4.75E-11
ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	1.775951471	6.40E-17	1.64E-15
		-		
ENSMMUG00000052454	prostaglandin D2 receptor 2 [Source:NCBI gene;Acc:695853]	1.160305502	3.17E-06	1.95E-05

ENSMMUG0000000019	coiled-coil domain containing 86 [Source:VGNC Symbol;Acc:VGNC:70893]	0.531743669	0.001515021	0.005202918
ENSMMUG00000031100	membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]	4.306988416	2.79E-17	7.47E-16
ENSMMUG00000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	2.713887798	1.58E-11	2.20E-10
ENSMMUG00000061603		3.884097967	8.66E-06	4.92E-05
ENSMMUG00000059299	membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]	2.540012112	3.85E-07	2.79E-06
ENSMMUG00000053140	putative oocyte-secreted protein 1 homolog [Source:NCBI gene;Acc:698403]	1.971098148	0.001568614	0.005357566
ENSMMUG00000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	2.802391907	1.49E-15	3.33E-14
ENSMMUG00000001745	oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]	1.79233505	4.99E-18	1.43E-16
ENSMMUG00000060712		1.35670438	1.35E-11	1.91E-10
ENSMMUG00000001083	glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]	0.859239588	8.68E-07	5.96E-06
ENSMMUG00000011713	leupaxin [Source:VGNC Symbol;Acc:VGNC:74286]	0.529727758	3.38E-09	3.42E-08
ENSMMUG00000011712	olfactory receptor 5B21 [Source:NCBI gene;Acc:702145]	1.130125709	0.000194395	0.000831041
ENSMMUG00000054737		-0.99372745	1.22E-13	2.25E-12
ENSMMUG00000062697	olfactory receptor 5B12 [Source:NCBI gene;Acc:106993236]	1.509346895	0.000263229	0.001091637
ENSMMUG00000059848	olfactory receptor 5B2 [Source:NCBI gene;Acc:100429465]	1.115076712	0.001849046	0.006217994
ENSMMUG00000060679	olfactory receptor 5B3 [Source:NCBI gene;Acc:701735]	2.516232769	0.005180818	0.0152929
ENSMMUG00000050844	BTB domain containing 18 [Source:NCBI gene;Acc:703264]	2.557629726	9.65E-10	1.06E-08
ENSMMUG00000056184		3.888553029	1.54E-15	3.45E-14
ENSMMUG00000002566	selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]	3.352692878	5.21E-08	4.38E-07
ENSMMUG00000040741	thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]	2.083844109	1.47E-16	3.63E-15
ENSMMUG00000002562	mediator complex subunit 19 [Source:VGNC Symbol;Acc:VGNC:74615]	1.662697206	0.002444071	0.007925993
ENSMMUG00000002563	zinc finger DHHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]	2.199114216	2.17E-06	1.38E-05
ENSMMUG00000058453	cleavage factor polyribonucleotide kinase subunit 1 [Source:NCBI gene;Acc:705071]	0.922785973	0.000438459	0.001728429
ENSMMUG00000012618	serpin family G member 1 [Source:VGNC Symbol;Acc:VGNC:77223]	0.66780859	0.000140527	0.000618402
ENSMMUG00000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.687582151	2.84E-14	5.59E-13
ENSMMUG00000010627	apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]	1.373115126	6.88E-13	1.17E-11
ENSMMUG00000010869	nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]	1.274620528	0.00115363	0.004094862
ENSMMUG00000040099	Y RNA [Source:RFAM;Acc:RF00019]	1.678202675	0.000328023	0.001331666
ENSMMUG00000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	1.48216239	3.57E-16	8.43E-15
ENSMMUG00000043682	mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]	2.249159572	3.78E-05	0.000188243
ENSMMUG00000004286	protein tyrosine phosphatase mitochondrial 1 [Source:NCBI gene;Acc:713104]	1.327985761	0.003282786	0.010281407
ENSMMUG00000011657	CUGBP Elav-like family member 1 [Source:VGNC Symbol;Acc:VGNC:71098]	0.415695941	0.002462947	0.007975001
ENSMMUG00000015611	proteasome 26S subunit, ATPase 3 [Source:NCBI gene;Acc:713356]	1.484545222	2.52E-05	0.000131064
ENSMMUG00000015607	solute carrier family 39 member 13 [Source:VGNC Symbol;Acc:VGNC:77538]	0.78056885	0.001923751	0.006440005
ENSMMUG00000015606	Spi-1 proto-oncogene [Source:NCBI gene;Acc:712010]	2.106885181	4.06E-12	6.15E-11
ENSMMUG00000062208	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.807051581	1.30E-06	8.63E-06
ENSMMUG00000015604	myosin binding protein C3 [Source:VGNC Symbol;Acc:VGNC:75094]	0.528844686	0.007108635	0.020137523
ENSMMUG00000015602	MAP kinase activating death domain [Source:VGNC Symbol;Acc:VGNC:74473]	0.374848545	0.000347526	0.001402398
ENSMMUG00000060750	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.557230561	3.55E-05	0.000178485
ENSMMUG00000003631	cytoskeleton associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71368]	-2.07781469	1.77E-07	1.37E-06

ENSMMUG00000019674	coagulation factor II, thrombin [Source:VGNC Symbol;Acc:VGNC:72464]	-	1.853687156	0.001565789	0.00535038
ENSMMUG00000019672	autophagy related 13 [Source:VGNC Symbol;Acc:VGNC:70148]	-	2.057930495	4.50E-06	2.70E-05
ENSMMUG00000021446	diacylglycerol kinase zeta [Source:VGNC Symbol;Acc:VGNC:71789]	-	0.567760324	4.81E-05	0.000234438
ENSMMUG00000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	-	1.764575476	1.17E-24	6.78E-23
ENSMMUG00000049305	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.693064659	2.41E-08	2.14E-07
ENSMMUG00000047219		-	1.586728252	6.14E-13	1.04E-11
ENSMMUG00000000874	carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]	-	1.95384925	9.31E-22	4.06E-20
ENSMMUG00000050952		-	1.186308368	0.001171355	0.004151817
ENSMMUG00000059728	tumor protein p53 inducible protein 11 [Source:NCBI gene;Acc:715295]	-	1.477331257	0.000795724	0.002931822
ENSMMUG00000000368	tetraspanin 18 [Source:VGNC Symbol;Acc:VGNC:79265]	-	1.927041948	0.004157902	0.012661538
ENSMMUG00000064903	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.374135079	0.018336118	0.045371709
ENSMMUG00000049355	ALX homeobox 4 [Source:NCBI gene;Acc:715652]	-	1.29720914	0.002340732	0.007627567
ENSMMUG00000017294	alkB homolog 3, alpha-ketoglutaratedependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:69736]	-	0.956319624	0.005547243	0.016235567
ENSMMUG00000056754		-	1.123616149	0.014194171	0.036494376
ENSMMUG00000008827	apoptosis inhibitor 5 [Source:NCBI gene;Acc:716346]	-	0.952713649	0.004347893	0.013159032
ENSMMUG00000049945		-	0.515500703	0.002006898	0.006677479
ENSMMUG00000053160		-	0.396701834	0.002510715	0.00810843
ENSMMUG00000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	-	2.587677544	2.20E-14	4.37E-13
ENSMMUG00000004331	four-jointed box kinase 1 [Source:NCBI gene;Acc:717833]	-	2.135510365	0.010130718	0.027360872
ENSMMUG00000004330	peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]	-	3.256998163	2.05E-08	1.84E-07
ENSMMUG00000004329	solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]	-	1.250364021	7.73E-09	7.38E-08
ENSMMUG00000004327	CD44 molecule (Indian blood group) [Source:NCBI gene;Acc:717204]	-	1.106444992	0.000852618	0.003117437
ENSMMUG00000002432	E74 like ETS transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:72209]	-	0.867309832	0.000481422	0.001879307
ENSMMUG00000002429	catalase [Source:VGNC Symbol;Acc:VGNC:70552]	-	0.940435199	3.54E-09	3.57E-08
ENSMMUG00000017218	KIAA1549 like [Source:VGNC Symbol;Acc:VGNC:73902]	-	0.529088569	0.004901405	0.014607683
ENSMMUG00000019988	homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]	-	1.549206469	3.36E-10	3.94E-09
ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	-	1.33124002	3.85E-23	1.94E-21
ENSMMUG00000055352		-	1.631878377	2.55E-39	6.41E-37
ENSMMUG00000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	-	1.051482932	2.02E-09	2.11E-08
ENSMMUG00000009026	eukaryotic translation initiation factor 3 subunit M [Source:VGNC Symbol;Acc:VGNC:72095]	-	0.439009776	0.006130967	0.017723634
ENSMMUG00000060261		-	0.859231926	3.75E-05	0.000186995
ENSMMUG00000065337		-	0.411674982	0.000238052	0.000998391
ENSMMUG00000049710	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	-	1.331500639	0.013759784	0.035599721
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	-	-1.60615169	2.71E-18	8.02E-17
ENSMMUG00000023119	lin-7 homolog C, crumbs cell polarity complex component [Source:VGNC Symbol;Acc:VGNC:74070]	-	1.841638549	0.000515783	0.001999755
ENSMMUG00000063557		-	1.662670896	0.0051595	0.015245146

ENSMMUG00000014614	lactate dehydrogenase A like 6A [Source:VGNC Symbol;Acc:VGNC:74141]	-	3.020105262	0.00845032	0.023419593
ENSMMUG00000014615	lactate dehydrogenase C [Source:VGNC Symbol;Acc:VGNC:74247]	-	0.940997207	0.001338684	0.00467122
ENSMMUG00000031024	lactate dehydrogenase A [Source:NCBI gene;Acc:694309]	-	1.05426169	1.27E-06	8.46E-06
ENSMMUG00000006405	secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]	-	1.202676462	5.44E-06	3.21E-05
ENSMMUG00000006403	potassium voltage-gated channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:73971]	-	0.736868048	2.66E-09	2.73E-08
ENSMMUG00000005895	nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]	-	1.470958968	1.95E-05	0.000104155
ENSMMUG000000064558		-	0.978264244	0.000916578	0.003321001
ENSMMUG00000022548	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:VGNC Symbol;Acc:VGNC:75992]	-	1.682838517	4.31E-10	4.99E-09
ENSMMUG00000022547	ribosomal protein S13 [Source:NCBI gene;Acc:697513]	-	1.507205438	0.003881398	0.011905096
ENSMMUG00000017628	pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]	-	3.958104587	2.41E-08	2.13E-07
ENSMMUG000000060216		-	3.871690388	0.001581511	0.00539416
ENSMMUG000000064582		-	2.828397259	0.001680574	0.00570449
ENSMMUG000000055212		-	3.790733981	7.88E-05	0.00036715
ENSMMUG00000020246	INSC spindle orientation adaptor protein [Source:VGNC Symbol;Acc:VGNC:73693]	-	2.356774732	0.017215068	0.042960428
ENSMMUG00000021914	spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]	-	1.182554254	1.16E-08	1.07E-07
ENSMMUG000000062000		-	1.069354703	0.000747196	0.002767159
ENSMMUG00000011990	fatty acyl-CoA reductase 1 [Source:NCBI gene;Acc:699947]	-	-0.85551093	0.00646462	0.018554349
ENSMMUG000000054213	parathyroid hormone [Source:NCBI gene;Acc:700195]	-	2.039076598	9.52E-06	5.37E-05
ENSMMUG00000009695	BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]	-	1.641981449	1.78E-05	9.57E-05
ENSMMUG00000010875	TEA domain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:78301]	-	0.809039053	1.12E-10	1.40E-09
ENSMMUG00000020956	parvin alpha [Source:VGNC Symbol;Acc:VGNC:75605]	-	0.800852333	0.000516587	0.002001825
ENSMMUG000000043504		-	1.062087802	1.16E-08	1.07E-07
ENSMMUG000000037426	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	-	4.296608054	0.00023267	0.000978865
ENSMMUG00000009204	switching B cell complex subunit SWAP70 [Source:VGNC Symbol;Acc:VGNC:78142]	-	0.624880416	0.00224728	0.007347258
ENSMMUG00000008758	zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]	-	1.733895322	4.67E-08	3.94E-07
ENSMMUG00000023636	importin 7 [Source:NCBI gene;Acc:704213]	-	1.089436284	0.000165504	0.00071725
ENSMMUG00000005639	transmembrane protein 41B [Source:VGNC Symbol;Acc:VGNC:79754]	-	0.929985578	0.01707596	0.042718706
ENSMMUG000000058029	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.111398915	0.020567364	0.049977718
ENSMMUG00000021142	DENN domain containing 5A [Source:VGNC Symbol;Acc:VGNC:71674]	-	0.701587011	0.000855959	0.003127339
ENSMMUG00000006692	signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]	-	1.249669967	1.07E-07	8.59E-07
ENSMMUG00000006689	nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]	-	1.713548623	4.67E-13	8.03E-12
ENSMMUG00000021830	DENN domain containing 2B [Source:VGNC Symbol;Acc:VGNC:77898]	-	0.641675808	1.28E-06	8.54E-06
ENSMMUG00000021828	ribosomal protein L27a [Source:NCBI gene;Acc:708863]	-	0.465424398	0.000128203	0.000570601
ENSMMUG00000018471	serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]	-	1.65863807	2.00E-05	0.000106412
ENSMMUG000000050922		-	0.977447702	0.015082697	0.038432369
ENSMMUG000000035632	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	0.869095444	0.001629306	0.005541881
ENSMMUG000000050864		-	1.453406304	0.000149958	0.000656204

ENSMMUG00000011068		-	2.520437795	0.01640072	0.041308199
ENSMMUG00000041831	hemoglobin subunit epsilon 1 [Source:NCBI gene;Acc:715414]		0.949044685	0.000345915	0.001396656
ENSMMUG00000058081	olfactory receptor 52D1-like [Source:NCBI gene;Acc:106992372]		1.164066956	0.013044502	0.033974352
ENSMMUG00000001065	olfactory receptor, family 51, subfamily A, member 4 [Source:NCBI gene;Acc:100425539]		0.594746569	0.009787033	0.026553548
ENSMMUG00000049802	olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]		1.36989514	6.02E-08	5.01E-07
ENSMMUG00000053270	olfactory receptor, family 51, subfamily S, member 1 [Source:NCBI gene;Acc:717205]		0.992064363	0.010346756	0.027868216
ENSMMUG00000062162	olfactory receptor 51F1 [Source:NCBI gene;Acc:106993363]		1.225286177	0.010838804	0.028972506
ENSMMUG00000030974	olfactory receptor, family 51, subfamily E, member 2 [Source:NCBI gene;Acc:717504]		0.564434716	0.006211268	0.017913866
ENSMMUG00000057860	olfactory receptor 51E1 [Source:NCBI gene;Acc:717598]		1.286375809	0.000179806	0.000774254
ENSMMUG00000022682	tripartite motif containing 68 [Source:NCBI gene;Acc:717644]		0.614264585	1.78E-06	1.15E-05
ENSMMUG00000063820	olfactory receptor, family 52, subfamily M, member 1 [Source:NCBI gene;Acc:717723]		4.651434633	1.94E-09	2.04E-08
ENSMMUG00000003962	ribonucleotide reductase catalytic subunit M1 [Source:VGNC Symbol;Acc:VGNC:76941]		0.915150386	0.004419163	0.013344773
ENSMMUG00000003958	stromal interaction molecule 1 [Source:VGNC Symbol;Acc:VGNC:77911]		1.067666201	0.000687594	0.00257826
ENSMMUG00000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]		1.890681256	2.43E-28	2.07E-26
ENSMMUG00000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]		1.610504205	2.10E-26	1.47E-24
ENSMMUG00000037170	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]		1.823353075	0.014832221	0.037898318
ENSMMUG00000003949	cholinergic receptor nicotinic alpha 10 subunit [Source:NCBI gene;Acc:718133]		0.967016262	3.72E-05	0.000185841
ENSMMUG00000003948	ADP-ribosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70024]		-1.54057833	0.000513968	0.001993761
ENSMMUG00000003946	ADP-ribosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:69890]		-1.53523663	0.00025779	0.001072678
ENSMMUG00000007325	Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]		2.112502837	1.10E-09	1.20E-08
ENSMMUG000000059115			1.743353701	3.65E-07	2.66E-06
ENSMMUG00000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]		2.473510588	1.66E-21	7.01E-20
ENSMMUG00000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]		1.577850686	3.45E-12	5.27E-11
ENSMMUG00000021280	leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]		2.504887022	9.25E-20	3.17E-18
ENSMMUG00000021282	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]		1.940211419	7.05E-08	5.81E-07
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]		2.566445511	3.14E-27	2.46E-25
ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]		3.124938185	1.60E-21	6.80E-20
ENSMMUG00000056905			4.795406415	2.68E-06	1.68E-05
ENSMMUG00000005423	caseinolytic mitochondrial matrix peptidase chaperone subunit B [Source:VGNC Symbol;Acc:VGNC:71375]		1.117667784	2.53E-05	0.000131467
ENSMMUG00000015054	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:69844]		1.04271925	6.91E-08	5.71E-07
ENSMMUG00000039301	StAR related lipid transfer domain containing 10 [Source:NCBI gene;Acc:718503]		1.231495053	0.000103707	0.000471769
ENSMMUG00000001294	FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]		1.333766725	1.25E-06	8.31E-06
ENSMMUG00000003139	Rho guanine nucleotide exchange factor 17 [Source:VGNC Symbol;Acc:VGNC:69880]		1.029449195	4.35E-07	3.14E-06
ENSMMUG00000003140	RELT TNF receptor [Source:VGNC Symbol;Acc:VGNC:76728]		1.131037191	7.00E-15	1.48E-13
ENSMMUG00000003142	family with sequence similarity 168 member A [Source:VGNC Symbol;Acc:VGNC:72398]		0.881296826	0.001499095	0.005156941
ENSMMUG00000004791	pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]		1.644659802	6.58E-07	4.62E-06
ENSMMUG00000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]		1.566024289	8.99E-21	3.47E-19

ENSMMUG00000007382	proteasomal ATPase associated factor 1 [Source:NCBI gene;Acc:718755]	0.532369173	3.17E-06	1.95E-05
ENSMMUG00000002605	uncoupling protein 2 [Source:VGNC Symbol;Acc:VGNC:78709]	-1.89803189	0.015320342	0.038937561
		-		
ENSMMUG00000010321	C2 domain containing 3 centriole elongation regulator [Source:VGNC Symbol;Acc:VGNC:70375]	0.670782829	7.60E-05	0.000355056
ENSMMUG00000017398	protein phosphatase methylesterase 1 [Source:VGNC Symbol;Acc:VGNC:76345]	3.300371549	0.005747018	0.016740969
ENSMMUG00000017402	phosphoglucomutase 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75839]	0.77846333	7.69E-05	0.000358839
ENSMMUG00000013094	lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]	-0.72623748	6.96E-06	4.03E-05
		-		
ENSMMUG00000013093	uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]	0.850588076	7.95E-09	7.57E-08
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	3.113207029	8.18E-25	4.84E-23
		-		
ENSMMUG00000010686	neuraminidase 3 [Source:VGNC Symbol;Acc:VGNC:75318]	0.602242225	0.012817697	0.033489509
		-		
ENSMMUG00000064190		0.873859852	0.004274391	0.012968335
		-		
ENSMMUG00000009126	solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]	1.017749112	1.78E-06	1.15E-05
		-		
ENSMMUG00000058539		1.249143647	0.001766291	0.005966765
		-		
ENSMMUG00000010688	olfactory receptor, family 2, subfamily AT, member 4 [Source:NCBI gene;Acc:694711]	1.166066471	0.00202578	0.006729911
		-		
ENSMMUG00000045580	trophoblast glycoprotein like [Source:NCBI gene;Acc:695023]	1.091518826	0.001119517	0.003988094
		-		
ENSMMUG00000017529	arrestin beta 1 [Source:VGNC Symbol;Acc:VGNC:70021]	0.762413132	0.000116163	0.000521198
ENSMMUG00000007676	microtubule associated protein 6 [Source:VGNC Symbol;Acc:VGNC:74640]	0.423604454	0.002124806	0.007007088
ENSMMUG00000000187	UV radiation resistance associated [Source:VGNC Symbol;Acc:VGNC:78751]	1.085001028	1.23E-05	6.78E-05
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	2.75790389	1.04E-26	7.73E-25
ENSMMUG00000062043		1.866074228	0.002199245	0.007212473
		-		
ENSMMUG00000018168	alkaline ceramidase 3 [Source:VGNC Symbol;Acc:VGNC:69415]	0.546173969	0.000610853	0.002319851
		-		
ENSMMUG00000050318	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 [Source:NCBI gene;Acc:697946]	0.526766054	0.00430705	0.013054068
		-		
ENSMMUG00000018174	calpain 5 [Source:VGNC Symbol;Acc:VGNC:70534]	1.001841625	0.003232413	0.010149661
		-		
ENSMMUG00000055575	olfactory marker protein [Source:HGNC Symbol;Acc:HGNC:8136]	1.372957854	3.03E-05	0.000154684
ENSMMUG00000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	2.026773379	2.88E-23	1.47E-21
		-		
ENSMMUG00000018944	aquaporin 11 [Source:VGNC Symbol;Acc:VGNC:69866]	2.078314917	0.000669024	0.002514352
		-		
ENSMMUG00000018945	chloride nucleotide-sensitive channel 1A [Source:VGNC Symbol;Acc:VGNC:71261]	1.638166716	2.30E-05	0.000120684
		-		
ENSMMUG00000017355	remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]	2.075746695	1.31E-16	3.26E-15
ENSMMUG00000063047		2.800824806	0.010251156	0.027650898
		-		
ENSMMUG00000007921	discs large MAGUK scaffold protein 2 [Source:VGNC Symbol;Acc:VGNC:81388]	1.185885351	0.002242199	0.007333878
		-		
ENSMMUG00000051202		4.347045258	3.77E-06	2.29E-05
		-		
ENSMMUG00000060971		1.057983397	3.42E-05	0.0001724
ENSMMUG00000051769		-0.80653737	0.002479544	0.008017648
ENSMMUG00000050245		-1.52988873	1.49E-05	8.15E-05
ENSMMUG00000050119		1.409182628	3.12E-18	9.18E-17
ENSMMUG00000054765	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.005877026	0.005315442	0.015643582
ENSMMUG00000016540	transmembrane protein 126B [Source:VGNC Symbol;Acc:VGNC:79893]	-0.46261257	0.013094785	0.034081373

ENSMMUG00000016543	CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]	-	1.463706852	1.98E-07	1.52E-06
ENSMMUG00000063415	coiled-coil domain containing 89 [Source:NCBI gene;Acc:703071]	-	1.708049919	0.002496155	0.008066675
ENSMMUG00000012449	synaptotagmin like 2 [Source:VGNC Symbol;Acc:VGNC:78123]	-	1.683820913	3.66E-05	0.000182944
ENSMMUG00000013045	coiled-coil domain containing 81 [Source:VGNC Symbol;Acc:VGNC:70868]	-	1.548040257	0.000167572	0.000725151
ENSMMUG00000013055	malic enzyme 3 [Source:VGNC Symbol;Acc:VGNC:74695]	-	1.928464001	1.18E-06	7.93E-06
ENSMMUG00000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]	-	1.422207116	8.88E-12	1.28E-10
ENSMMUG00000057627		-	0.886260558	5.09E-05	0.000247227
ENSMMUG00000011646	TATA-box binding protein associated factor, RNA polymerase I subunit D [Source:NCBI gene;Acc:696602]	-	1.619603835	0.005542079	0.016223654
ENSMMUG00000013601	chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]	-	0.916948661	4.97E-06	2.96E-05
ENSMMUG00000061600	V-set and transmembrane domain containing 5 [Source:NCBI gene;Acc:697779]	-	-0.73018586	0.013379864	0.034744071
ENSMMUG00000004112	MRE11 homolog, double strand break repair nuclease [Source:VGNC Symbol;Acc:VGNC:74926]	-	0.641531306	1.02E-06	6.90E-06
ENSMMUG00000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	-	1.87584743	1.95E-15	4.30E-14
ENSMMUG00000009394	sestrin 3 [Source:VGNC Symbol;Acc:VGNC:77291]	-	0.872720204	8.54E-09	8.07E-08
ENSMMUG00000061815		-	2.309136295	6.79E-27	5.08E-25
ENSMMUG00000025977	Y RNA [Source:RFAM;Acc:RF00019]	-	2.740483443	0.019962192	0.048778928
ENSMMUG00000016737	contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]	-	3.714341028	3.45E-06	2.11E-05
ENSMMUG00000064295		-	2.726821333	0.000802999	0.002953492
ENSMMUG00000020784	centrosomal protein 126 [Source:NCBI gene;Acc:701911]	-	0.766556588	7.11E-05	0.000334638
ENSMMUG00000003394	cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]	-	2.236338928	1.38E-48	9.31E-46
ENSMMUG00000050759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.322444586	0.000135648	0.000599956
ENSMMUG00000052815		-	-1.96420097	0.000337562	0.00136665
ENSMMUG00000003400	baculoviral IAP repeat containing 2 [Source:NCBI gene;Acc:702592]	-	4.201432377	4.79E-23	2.38E-21
ENSMMUG00000011015	matrix metalloproteinase 27 [Source:VGNC Symbol;Acc:VGNC:74749]	-	0.995554149	1.92E-07	1.47E-06
ENSMMUG00000018308	dynein cytoplasmic 2 heavy chain 1 [Source:NCBI gene;Acc:704215]	-	1.347052489	0.00721201	0.020376093
ENSMMUG00000057934		-	2.018859253	9.75E-07	6.62E-06
ENSMMUG00000013419	guanylate cyclase 1 soluble subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:82154]	-	1.197370346	0.000565055	0.002165997
ENSMMUG00000052457	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-2.24138674	0.009482596	0.025860656
ENSMMUG00000005440	ELMO domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72109]	-	0.996092431	0.005097673	0.015086508
ENSMMUG00000010358	solute carrier family 35 member F2 [Source:VGNC Symbol;Acc:VGNC:77565]	-	0.965218859	0.018556582	0.04579699
ENSMMUG00000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	-	1.931340817	1.16E-26	8.49E-25
ENSMMUG00000001800	cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]	-	2.161837108	3.32E-09	3.36E-08
ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	-	2.235662853	1.08E-19	3.65E-18

ENSMMUG00000004153	ATM serine/threonine kinase [Source:VGNC Symbol;Acc:VGNC:70173]	-	1.811434467	9.23E-06	5.22E-05
ENSMMUG00000000797	exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]	-	1.633438726	8.80E-09	8.30E-08
ENSMMUG000000052460		-	1.612861072	0.000220544	0.000931282
ENSMMUG000000062793		-	2.244977921	4.81E-10	5.53E-09
ENSMMUG000000035318	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	-	1.932513141	0.010288795	0.027737289
ENSMMUG000000065306		-	0.945050974	8.46E-06	4.82E-05
ENSMMUG00000014001	protein phosphatase 2 scaffold subunit Abeta [Source:VGNC Symbol;Acc:VGNC:76375]	-	1.027460368	0.000517232	0.002003277
ENSMMUG00000014003	ALG9 alpha-1,2-mannosyltransferase [Source:NCBI gene;Acc:710567]	-	0.601324604	0.014739967	0.037708074
ENSMMUG00000007080	5-hydroxytryptamine receptor 3A [Source:VGNC Symbol;Acc:VGNC:73542]	-	1.260221929	0.015105846	0.038471807
ENSMMUG00000007085	zinc finger and BTB domain containing 16 [Source:VGNC Symbol;Acc:VGNC:78845]	-	1.979033032	0.00164462	0.005587563
ENSMMUG00000016128	SIK family kinase 3 [Source:VGNC Symbol;Acc:VGNC:77330]	-	0.575640707	0.000405907	0.001615133
ENSMMUG00000002053	SID1 transmembrane family member 2 [Source:VGNC Symbol;Acc:VGNC:77300]	-	0.703411958	0.001345896	0.004691968
ENSMMUG00000007785	beta-secretase 1 [Source:VGNC Symbol;Acc:VGNC:70215]	-	2.289361882	0.018008194	0.044696488
ENSMMUG000000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	-	2.406694841	1.07E-34	1.78E-32
ENSMMUG000000053399	small integral membrane protein 35 [Source:HGNC Symbol;Acc:HGNC:44179]	-	0.75864191	0.010753132	0.02877462
ENSMMUG00000007620	transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]	-	2.187867915	4.88E-14	9.41E-13
ENSMMUG000000063655	sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]	-	1.716593085	5.63E-09	5.49E-08
ENSMMUG000000061384	sodium voltage-gated channel beta subunit 2 [Source:NCBI gene;Acc:678698]	-	0.59948288	1.37E-07	1.08E-06
ENSMMUG00000006268	junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]	-	1.324320474	6.85E-12	1.00E-10
ENSMMUG00000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	-	1.308190939	3.12E-14	6.10E-13
ENSMMUG000000065091	myelin protein zero like 2 [Source:NCBI gene;Acc:699330]	-	-1.21615963	5.07E-11	6.66E-10
ENSMMUG000000049268	CD3d molecule [Source:NCBI gene;Acc:699582]	-	0.736910784	0.017526414	0.043654134
ENSMMUG000000045160	ubiquitination factor E4A [Source:NCBI gene;Acc:699836]	-	0.521433509	0.000169117	0.000730769
ENSMMUG00000005482	lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]	-	2.673197386	2.76E-10	3.29E-09
ENSMMUG000000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	-	2.763992935	1.31E-21	5.63E-20
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	-	2.424672012	3.59E-13	6.24E-12
ENSMMUG00000009318	BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]	-	1.19133912	5.57E-11	7.28E-10
ENSMMUG00000005982	coiled-coil domain containing 84 [Source:NCBI gene;Acc:707400]	-	1.385924219	6.92E-08	5.71E-07
ENSMMUG000000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	-	2.606888268	8.85E-10	9.78E-09
ENSMMUG00000016894	ribosomal protein S25 [Source:NCBI gene;Acc:702593]	-	2.139338707	2.89E-08	2.53E-07
ENSMMUG00000016946	trafficking protein particle complex 4 [Source:VGNC Symbol;Acc:VGNC:79211]	-	1.308314492	9.06E-06	5.14E-05
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	-	1.961761279	3.49E-29	3.19E-27
ENSMMUG00000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	-	1.518805332	7.79E-20	2.68E-18
ENSMMUG00000014864	VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]	-	1.554745228	3.38E-16	8.00E-15
ENSMMUG000000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.068022294	7.65E-33	1.02E-30
ENSMMUG00000014866	hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]	-	1.696504335	2.74E-07	2.05E-06

ENSMMUG00000044496	H2A histone family, member X [Source:NCBI gene;Acc:703073]	1.623083306	5.27E-12	7.87E-11
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	2.074758174	3.99E-37	7.99E-35
ENSMMUG00000014875	C2CD2 like [Source:VGNC Symbol;Acc:VGNC:70435]	1.947213843	6.01E-05	0.000287108
ENSMMUG00000014877	histone H4 transcription factor [Source:VGNC Symbol;Acc:VGNC:73408]	0.735741432	0.011444727	0.030422173
ENSMMUG00000013799	ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]	3.890088861	3.30E-10	3.88E-09
ENSMMUG00000012190	PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:75832]	2.428994786	0.001021862	0.003669301
ENSMMUG00000012191	coiled-coil domain containing 153 [Source:NCBI gene;Acc:704216]	2.126094474	0.000215189	0.000911785
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	3.019805909	2.56E-10	3.06E-09
ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	1.685837726	1.61E-19	5.24E-18
ENSMMUG00000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	1.787806841	7.49E-16	1.72E-14
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	1.750554192	1.08E-16	2.71E-15
ENSMMUG00000054956		3.154820986	0.003286072	0.010287617
ENSMMUG00000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	1.532929938	4.57E-10	5.27E-09
ENSMMUG00000042169	olfactory receptor 6T1 [Source:NCBI gene;Acc:709477]	0.615557005	0.009488393	0.025866337
ENSMMUG00000058858	olfactory receptor 10G9-like [Source:NCBI gene;Acc:709651]	1.995508622	0.014575223	0.03733815
ENSMMUG00000008481	neurogranin [Source:VGNC Symbol;Acc:VGNC:75528]	0.833323459	0.010454205	0.028101478
ENSMMUG00000057600	V-set and immunoglobulin domain containing 2 [Source:NCBI gene;Acc:712047]	-1.02213994	0.001562198	0.005341802
ENSMMUG00000008486	endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]	1.238839956	1.65E-07	1.28E-06
ENSMMUG00000065277	hepatic and glial cell adhesion molecule [Source:NCBI gene;Acc:716321]	1.647963948	0.002428493	0.007879469
ENSMMUG00000006375	coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]	1.687823049	2.88E-08	2.51E-07
ENSMMUG00000057529		-0.7813701	0.000204756	0.000871316
ENSMMUG00000010009	EI24 autophagy associated transmembrane protein [Source:VGNC Symbol;Acc:VGNC:72038]	0.624993691	0.001846341	0.006210304
ENSMMUG00000058923	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.573402083	0.010017233	0.027083968
ENSMMUG00000060925		3.436593019	0.001121297	0.003993476
ENSMMUG00000038587	prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]	4.206278578	7.05E-07	4.92E-06
ENSMMUG00000060291	prostate and testis expressed 3 [Source:NCBI gene;Acc:100379154]	2.677165904	0.001622454	0.005521109
ENSMMUG00000014120	sc328 [Source:NCBI gene;Acc:574167]	-3.78237525	0.000129519	0.000576116
ENSMMUG00000060101		3.273270941	0.000127436	0.000567531
ENSMMUG00000065066	V-set and immunoglobulin domain containing 10 like 2 [Source:NCBI gene;Acc:717387]	-0.70846326	3.00E-06	1.86E-05
ENSMMUG00000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	4.066093136	4.42E-11	5.86E-10
ENSMMUG00000007933	RNA pseudouridine synthase D4 [Source:VGNC Symbol;Acc:VGNC:77108]	2.302096085	0.020235596	0.049357548
ENSMMUG00000007935	family with sequence similarity 118 member B [Source:VGNC Symbol;Acc:VGNC:72360]	0.683312939	0.003124307	0.009839346
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	2.088338467	6.54E-22	2.91E-20
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.379246545	1.02E-31	1.12E-29
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	2.374857166	4.68E-26	3.10E-24

ENSMMUG00000060836		-	2.851364928	9.33E-06	5.26E-05
ENSMMUG00000003141	Fli-1 proto-oncogene, ETS transcription factor [Source:VGNC Symbol;Acc:VGNC:72669]		0.539228357	0.001689192	0.005729567
ENSMMUG00000003144	potassium inwardly rectifying channel subfamily J member 1 [Source:VGNC Symbol;Acc:VGNC:73984]		0.478329254	9.19E-05	0.000422659
ENSMMUG00000017555	PR/SET domain 10 [Source:VGNC Symbol;Acc:VGNC:76250]		0.599629181	8.99E-07	6.15E-06
ENSMMUG00000018029	amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]		1.291123696	2.52E-17	6.78E-16
ENSMMUG00000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]		2.317485691	1.42E-56	2.63E-53
ENSMMUG00000007107	acyl-CoA dehydrogenase family member 8 [Source:VGNC Symbol;Acc:VGNC:69593]		2.567272003	0.002856233	0.009101406
ENSMMUG00000002250	beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]		2.432555867	0.000203312	0.000865914
ENSMMUG00000009187	calcium voltage-gated channel subunit alpha1 B [Source:VGNC Symbol;Acc:VGNC:70499]		2.020275294	0.01989604	0.048641325
ENSMMUG00000019611	arrestin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69920]		-1.18672188	0.003521891	0.010917567
ENSMMUG00000019607	patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]		0.695940196	0.002301315	0.007507368
ENSMMUG00000046202	transmembrane protein 203 [Source:NCBI gene;Acc:706164]		-0.57747091	4.72E-05	0.000231058
ENSMMUG00000001677	taperin [Source:NCBI gene;Acc:721581]		0.462358703	0.007761586	0.021750626
ENSMMUG00000047902	SS nuclear autoantigen 1 [Source:NCBI gene;Acc:706507]		-0.43515787	0.017060417	0.042694227
ENSMMUG00000001669	anaphase promoting complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:69641]		0.541628431	0.000997178	0.003595465
ENSMMUG00000001667	transmembrane protein 210 [Source:VGNC Symbol;Acc:VGNC:79945]		0.76520952	1.63E-06	1.07E-05
ENSMMUG00000063598	leucine rich repeat containing 26 [Source:NCBI gene;Acc:706616]		1.231693236	0.004630988	0.013910785
ENSMMUG00000022750	dipeptidyl peptidase 7 [Source:NCBI gene;Acc:721595]		-0.41564617	0.00429728	0.013032447
ENSMMUG00000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]		2.02093368	1.74E-20	6.51E-19
ENSMMUG00000032142	complement C8 gamma chain [Source:VGNC Symbol;Acc:VGNC:70481]		2.273640864	2.50E-08	2.21E-07
ENSMMUG00000011528	F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]		1.558652008	1.53E-08	1.39E-07
ENSMMUG00000011527	TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]		1.335935034	2.97E-08	2.59E-07
ENSMMUG00000005048	MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]		1.228904586	5.66E-12	8.41E-11
ENSMMUG00000005047	phosphohistidine phosphatase 1 [Source:NCBI gene;Acc:721674]		1.953802158	0.00267533	0.008583977
ENSMMUG00000005046	apical junction component 1 homolog [Source:VGNC Symbol;Acc:VGNC:69768]		1.357255405	0.011442068	0.030420558
ENSMMUG00000005042	RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]		-1.26203369	5.67E-08	4.73E-07
ENSMMUG00000005040	coiled-coil domain containing 183 [Source:NCBI gene;Acc:709019]		1.382602512	4.35E-05	0.000213732
ENSMMUG00000026981	EGF like domain multiple 7 [Source:VGNC Symbol;Acc:VGNC:72079]		-1.23028957	3.81E-07	2.77E-06
ENSMMUG00000056009			1.300011327	3.59E-07	2.62E-06
ENSMMUG00000003106	SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]		1.784642013	5.72E-14	1.10E-12
ENSMMUG00000003105	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]		1.764026963	1.48E-22	7.05E-21
ENSMMUG00000003098	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]		2.248194128	1.92E-29	1.81E-27
ENSMMUG00000003081	G protein signaling modulator 1 [Source:VGNC Symbol;Acc:VGNC:72960]		0.734298708	0.001512284	0.005196286
ENSMMUG00000001409	coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]		1.839023293	3.83E-15	8.27E-14
ENSMMUG00000004885	quiescin sulfhydryl oxidase 2 [Source:VGNC Symbol;Acc:VGNC:76568]		1.807063252	0.003408487	0.010614839
ENSMMUG000000045749			1.651124172	0.001347578	0.004696729
ENSMMUG00000000276	NACC family member 2 [Source:VGNC Symbol;Acc:VGNC:75013]		2.952181789	0.001724895	0.005837562
ENSMMUG00000016827	UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]		2.477554599	4.97E-07	3.55E-06
ENSMMUG00000055942	spermatogenesis and oogenesis specific basic helix-loop-helix 1 [Source:NCBI gene;Acc:721833]		1.367108008	0.003899926	0.011954506

ENSMMUG00000012147	collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]	2.859911385	9.61E-20	3.27E-18
ENSMMUG00000008183	retinoid X receptor alpha [Source:VGNC Symbol;Acc:VGNC:76951]	3.591992738	0.000113741	0.000511724
ENSMMUG000000051925		2.844197766	1.30E-19	4.33E-18
ENSMMUG000000064229		2.058179474	5.67E-08	4.73E-07
		-		
ENSMMUG00000005463	bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]	1.001775855	1.13E-06	7.63E-06
		-		
ENSMMUG00000017214	vav guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:78758]	1.137725434	0.016727977	0.042011159
		-		
ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	2.191678333	7.66E-11	9.83E-10
		-		
ENSMMUG00000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]	2.049243004	2.11E-06	1.34E-05
ENSMMUG00000022348	surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]	1.030860505	1.44E-05	7.87E-05
ENSMMUG000000057105	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.810873119	0.008563924	0.023694589
ENSMMUG00000022346	surfeit 2 [Source:VGNC Symbol;Acc:VGNC:78059]	0.859708894	0.004487081	0.013533335
		-		
ENSMMUG00000018468	senataxin [Source:VGNC Symbol;Acc:VGNC:77356]	0.830136547	1.30E-05	7.19E-05
		-		
ENSMMUG00000006479	Rap guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:76582]	0.469347491	1.27E-05	7.03E-05
		-		
ENSMMUG000000050752	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.718206119	0.006628681	0.018948214
		-		
ENSMMUG000000051984		1.426940868	0.013570888	0.035172363
ENSMMUG00000009976	uridine-cytidine kinase 1 [Source:VGNC Symbol;Acc:VGNC:78967]	0.309826282	0.007469479	0.021015437
ENSMMUG00000009973	proline rich coiled-coil 2B [Source:VGNC Symbol;Acc:VGNC:76327]	1.469195908	0.004374936	0.013230079
ENSMMUG000000059098	Small nucleolar RNA SNORD62 [Source:RFAM;Acc:RF00153]	2.239093183	0.010576811	0.028374477
ENSMMUG000000021724	nucleoporin 214 [Source:VGNC Symbol;Acc:VGNC:75560]	0.960153549	0.016948803	0.04246507
ENSMMUG00000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	3.601371618	1.03E-11	1.48E-10
ENSMMUG000000036223		3.351473904	2.69E-06	1.68E-05
ENSMMUG000000059085	PR/SET domain 12 [Source:NCBI gene;Acc:716040]	-0.95015572	0.000324186	0.001317894
		-		
ENSMMUG00000008249	far upstream element binding protein 3 [Source:NCBI gene;Acc:722470]	0.774299242	0.000255992	0.001065796
ENSMMUG00000001522	argininosuccinate synthase 1 [Source:NCBI gene;Acc:716168]	-0.75249359	0.001708296	0.005789313
		-		
ENSMMUG000000049177	neuronal calcium sensor 1 [Source:NCBI gene;Acc:722507]	0.446546085	0.008940343	0.02458926
ENSMMUG00000003797	ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]	2.269403198	5.92E-08	4.93E-07
		-		
ENSMMUG00000003793	torsin family 1 member B [Source:VGNC Symbol;Acc:VGNC:78624]	1.026550845	0.011017158	0.029407426
		-		
ENSMMUG000000050493	paired related homeobox 2 [Source:NCBI gene;Acc:716699]	1.606681629	0.007322193	0.020640204
		-		
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	3.234742519	2.25E-32	2.78E-30
ENSMMUG000000049483		-2.4266237	0.00893683	0.024588077
		-		
ENSMMUG000000055560		1.497449648	0.008719926	0.02407232
ENSMMUG000000051852	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.222479825	0.000292481	0.001196882
ENSMMUG00000002515	protein phosphatase 2 phosphatase activator [Source:VGNC Symbol;Acc:VGNC:76583]	1.979901106	1.13E-14	2.35E-13
ENSMMUG00000011767	carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]	1.236345978	1.87E-09	1.97E-08
ENSMMUG000000032030	dolichyldiphosphatase 1 [Source:VGNC Symbol;Acc:VGNC:71947]	0.992748957	1.37E-06	9.08E-06
ENSMMUG00000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	1.557731914	1.83E-17	4.98E-16
		-		
ENSMMUG00000005987	outer dense fiber of sperm tails 2 [Source:VGNC Symbol;Acc:VGNC:75580]	0.654107178	0.001187049	0.004199411
		-		
ENSMMUG00000009961	niban apoptosis regulator 2 [Source:VGNC Symbol;Acc:VGNC:75254]	1.006407138	0.002446871	0.00793334

ENSMMUG0000009956	leucine rich repeat and sterile alpha motif containing 1 [Source:VGNC Symbol;Acc:VGNC:74353]	-	0.896277451	0.000786711	0.002904389
ENSMMUG00000060992	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.365506767	0.001532718	0.00525554
ENSMMUG00000021760	zinc finger protein 79 [Source:NCBI gene;Acc:700961]	-	1.203912408	1.98E-08	1.77E-07
ENSMMUG00000012167	solute carrier family 2 member 8 [Source:VGNC Symbol;Acc:VGNC:77470]	-	1.633839886	3.07E-05	0.000156224
ENSMMUG00000012163	GTPase activating Rap/RanGAP domain like 3 [Source:VGNC Symbol;Acc:VGNC:72785]	-	0.888993089	0.0001077	0.000487989
ENSMMUG00000023495	Ral GEF with PH domain and SH3 binding motif 1 [Source:VGNC Symbol;Acc:VGNC:76492]	-	0.681142031	1.39E-05	7.60E-05
ENSMMUG00000054544	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.838722229	0.003468431	0.010774366
ENSMMUG00000050175	zinc finger and BTB domain containing 34 [Source:NCBI gene;Acc:701665]	-	1.001787613	0.000251804	0.001050422
ENSMMUG00000064247		-	0.562537256	0.018380832	0.045454016
ENSMMUG00000052476	zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]	-	0.945017889	3.85E-09	3.85E-08
ENSMMUG00000016826	MAPK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:74531]	-	0.780011573	0.002799269	0.00893717
ENSMMUG00000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]	-	0.80251403	2.29E-07	1.73E-06
ENSMMUG00000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]	-	0.948270914	3.00E-05	0.000153284
ENSMMUG00000051739	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.888318461	0.010960271	0.029270813
ENSMMUG00000061871		-	1.991142104	0.002629712	0.008448578
ENSMMUG00000011183	olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]	-	-2.28453279	7.98E-08	6.52E-07
ENSMMUG00000011185	nuclear receptor subfamily 6 group A member 1 [Source:VGNC Symbol;Acc:VGNC:75522]	-	0.687689827	0.020469033	0.049795893
ENSMMUG00000033102	mml-mir-181b-2 [Source:miRBase;Acc:MI0007646]	-	3.226405411	9.03E-06	5.12E-05
ENSMMUG00000026876	mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]	-	3.774029511	2.65E-07	1.98E-06
ENSMMUG00000014111	nuclear receptor subfamily 5 group A member 1 [Source:VGNC Symbol;Acc:VGNC:75520]	-	0.373781103	0.002203132	0.007223624
ENSMMUG00000014110	adhesion G protein-coupled receptor D2 [Source:VGNC Symbol;Acc:VGNC:69462]	-	0.868220423	1.05E-13	1.95E-12
ENSMMUG00000054736		-	2.865562992	2.05E-05	0.000108788
ENSMMUG00000063639		-	1.729485022	3.00E-07	2.22E-06
ENSMMUG00000038944		-	2.618877472	1.39E-36	2.72E-34
ENSMMUG00000058731	olfactory receptor 1B1 [Source:NCBI gene;Acc:699905]	-	0.355520824	0.001204208	0.004252003
ENSMMUG00000043396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.904282006	2.81E-07	2.09E-06
ENSMMUG00000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	-	2.857276373	1.95E-12	3.11E-11
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	-	2.652185494	4.17E-40	1.14E-37
ENSMMUG00000058237		-	1.233198868	5.42E-10	6.18E-09
ENSMMUG00000013105	astrotactin 2 [Source:VGNC Symbol;Acc:VGNC:70087]	-	0.694314212	0.000439473	0.001731503
ENSMMUG00000065273		-	2.445761573	5.83E-05	0.000279132
ENSMMUG00000013107	tripartite motif containing 32 [Source:VGNC Symbol;Acc:VGNC:79032]	-	0.854820608	6.85E-14	1.30E-12
ENSMMUG00000013099	pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]	-	1.247892185	0.0002871	0.001176808
ENSMMUG00000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]	-	1.236264229	4.39E-10	5.07E-09
ENSMMUG00000041301	TNF superfamily member 8 [Source:NCBI gene;Acc:702944]	-	1.677198928	1.28E-05	7.07E-05
ENSMMUG00000064892		-	2.118708308	2.34E-13	4.13E-12
ENSMMUG00000062461	chromosome 15 C9orf43 homolog [Source:NCBI gene;Acc:704968]	-	2.970850733	0.004673113	0.014017449
ENSMMUG00000044537	DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]	-	-2.84916952	2.85E-06	1.78E-05
ENSMMUG00000031965	aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]	-	1.453362862	0.010129127	0.027360872

ENSMMUG00000057031		-	2.432054281	1.14E-05	6.35E-05
ENSMMUG0000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	-	2.905449136	2.88E-10	3.42E-09
ENSMMUG00000011654	hydroxysteroid dehydrogenase like 2 [Source:VGNC Symbol;Acc:VGNC:73414]	-	2.696818103	0.013889037	0.035896553
ENSMMUG00000000464	polypyrimidine tract binding protein 3 [Source:VGNC Symbol;Acc:VGNC:76244]	-	0.678432152	0.000371148	0.001489209
ENSMMUG00000021097	sushi domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78207]	-	1.630601374	6.45E-06	3.76E-05
ENSMMUG00000000695	transmembrane protein 245 [Source:VGNC Symbol;Acc:VGNC:78933]	-	0.887094522	5.39E-05	0.000260082
ENSMMUG00000060448	Y RNA [Source:RFAM;Acc:RF00019]	-	1.205052606	0.002998065	0.009486089
ENSMMUG00000000690	catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]	-	1.484176733	3.18E-06	1.96E-05
ENSMMUG00000053648	actin binding transcription modulator [Source:NCBI gene;Acc:710486]	-	-1.64900215	2.35E-11	3.20E-10
ENSMMUG00000064066		-	2.002066133	7.78E-06	4.45E-05
ENSMMUG00000019357	elongator complex protein 1 [Source:VGNC Symbol;Acc:VGNC:72257]	-	0.813944327	1.06E-05	5.93E-05
ENSMMUG00000019355	actin like 7A [Source:VGNC Symbol;Acc:VGNC:69417]	-	1.286433921	0.000889603	0.00323195
ENSMMUG00000019354	actin like 7B [Source:VGNC Symbol;Acc:VGNC:69421]	-	1.808118661	1.50E-05	8.20E-05
ENSMMUG00000023797	post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]	-	1.717531307	1.52E-06	9.96E-06
ENSMMUG00000009775	caveolae associated protein 4 [Source:NCBI gene;Acc:714379]	-	0.938793996	5.40E-08	4.53E-07
ENSMMUG00000057137		-	0.942592781	0.004501391	0.013568218
ENSMMUG00000011410	nuclear receptor subfamily 4 group A member 3 [Source:VGNC Symbol;Acc:VGNC:75519]	-	0.982767816	0.009877567	0.026764903
ENSMMUG00000010661	SEC61 translocon subunit beta [Source:NCBI gene;Acc:717815]	-	0.457408292	0.010772027	0.028814784
ENSMMUG00000001304	transforming growth factor beta receptor 1 [Source:VGNC Symbol;Acc:VGNC:78337]	-	0.639063862	0.000269455	0.001115511
ENSMMUG00000009831	TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]	-	1.850750744	1.02E-05	5.74E-05
ENSMMUG00000008670	SH2 domain containing adaptor protein B [Source:VGNC Symbol;Acc:VGNC:82236]	-	0.664939733	0.012347274	0.03246057
ENSMMUG00000047381	DDB1 and CUL4 associated factor 10 [Source:NCBI gene;Acc:716256]	-	0.439507638	0.014798523	0.037825249
ENSMMUG00000017886	F-box protein 10 [Source:NCBI gene;Acc:718443]	-	1.057530034	6.50E-06	3.79E-05
ENSMMUG00000017892	RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]	-	1.021372967	2.29E-06	1.45E-05
ENSMMUG00000007421	zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]	-	1.228305603	2.88E-13	5.03E-12
ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	-	2.617297439	1.05E-08	9.82E-08
ENSMMUG00000006135	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase [Source:NCBI gene;Acc:693525]	-	0.901924754	0.001121585	0.003993545
ENSMMUG00000054523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.776085665	3.43E-09	3.47E-08
ENSMMUG00000010213	GLI pathogenesis related 2 [Source:VGNC Symbol;Acc:VGNC:81414]	-	4.340308316	2.22E-05	0.000116769
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	-	2.236075827	2.38E-43	1.01E-40
ENSMMUG00000059406	RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]	-	4.355132371	1.74E-09	1.85E-08
ENSMMUG00000016331	glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]	-	-3.00348933	0.000301146	0.0012303
ENSMMUG00000016328	cAMP responsive element binding protein 3 [Source:VGNC Symbol;Acc:VGNC:71486]	-	3.137781612	0.009526381	0.025946049
ENSMMUG00000031856	talin 1 [Source:VGNC Symbol;Acc:VGNC:78371]	-	0.808239673	1.37E-06	9.08E-06

ENSMMUG00000016321	tropomyosin 2 [Source:NCBI gene;Acc:696604]	0.408396485	0.002111462	0.006975493
ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	1.780400036	1.26E-21	5.43E-20
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.937011942	3.58E-41	1.11E-38
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	1.964386024	2.49E-29	2.34E-27
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	2.04227652	2.63E-27	2.08E-25
ENSMMUG00000038988	RNase MRP [Source:RFAM;Acc:RF00030]	2.614131969	0.00221569	0.007256775
		-		
ENSMMUG00000016316	testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]	1.667042275	1.59E-07	1.24E-06
		-		
ENSMMUG00000049863		3.338875435	0.003663595	0.01130485
		-		
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	2.883061008	6.30E-27	4.74E-25
		-		
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	1.345323873	6.52E-11	8.47E-10
ENSMMUG00000059191	stomatin like 2 [Source:NCBI gene;Acc:698458]	1.314907983	0.005238811	0.0154303
ENSMMUG00000011866	phosphatidylinositol glycan anchor biosynthesis class O [Source:VGNC Symbol;Acc:VGNC:75851]	1.967511197	0.000151637	0.000662964
ENSMMUG00000020190	valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]	2.376826027	7.51E-20	2.59E-18
ENSMMUG00000061896		2.635873084	4.04E-28	3.35E-26
ENSMMUG00000044048	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.30831761	2.02E-12	3.19E-11
ENSMMUG00000020188	chromosome 15 C9orf131 homolog [Source:VGNC Symbol;Acc:VGNC:70451]	0.689864553	4.07E-06	2.46E-05
ENSMMUG00000022895	DnaJ heat shock protein family (Hsp40) member B5 [Source:NCBI gene;Acc:699081]	0.733557676	1.08E-12	1.77E-11
ENSMMUG00000006927	PHD finger protein 24 [Source:NCBI gene;Acc:698904]	0.719568535	0.000717604	0.002671821
		-		
ENSMMUG00000020780	ciliary neurotrophic factor receptor [Source:VGNC Symbol;Acc:VGNC:71282]	0.546431607	0.006562014	0.018786615
ENSMMUG00000031826	ubiquitin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78686]	1.085046527	0.020358253	0.04958333
ENSMMUG00000058149		0.952181788	0.002580206	0.008314743
ENSMMUG00000017458	DDB1 and CUL4 associated factor 12 [Source:VGNC Symbol;Acc:VGNC:71678]	1.353938342	0.000342839	0.001386125
ENSMMUG00000012597	ubiquitin associated protein 2 [Source:VGNC Symbol;Acc:VGNC:78949]	1.883457427	0.000432985	0.001710487
ENSMMUG00000056939		1.647182998	0.001301243	0.004555581
ENSMMUG00000035888	small nucleolar RNA, C/D box 121A [Source:HGNC Symbol;Acc:HGNC:33560]	2.226502205	1.74E-05	9.37E-05
ENSMMUG00000053200	ubiquitin conjugating enzyme E2 R2 [Source:NCBI gene;Acc:701507]	1.296090637	9.77E-06	5.49E-05
ENSMMUG00000000389	nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]	1.055214925	5.65E-10	6.43E-09
ENSMMUG00000003314	aquaporin 3 (Gill blood group) [Source:NCBI gene;Acc:702721]	1.136363969	3.90E-05	0.000193227
ENSMMUG00000001545	aquaporin 7 [Source:NCBI gene;Acc:702836]	1.169408321	0.002789354	0.008909353
		-		
ENSMMUG00000043096	nuclear transcription factor, X-box binding 1 [Source:NCBI gene;Acc:702945]	0.834528943	0.001981259	0.006599746
		-		
ENSMMUG00000020149	charged multivesicular body protein 5 [Source:NCBI gene;Acc:703191]	0.805239711	0.000908796	0.003295218
ENSMMUG00000020148	BAG cochaperone 1 [Source:NCBI gene;Acc:702101]	-1.22642889	0.001386658	0.004814831
		-		
ENSMMUG00000060647	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.156288613	0.001187413	0.0041997
ENSMMUG00000012442	DExD/H-box helicase 58 [Source:VGNC Symbol;Acc:VGNC:71672]	0.435025713	2.89E-06	1.80E-05
ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	0.875693509	2.02E-06	1.30E-05
ENSMMUG00000061225		2.023127225	0.004644632	0.013940475
ENSMMUG00000062843	MOB kinase activator 3B [Source:NCBI gene;Acc:706919]	0.706237867	0.000243321	0.001018187
ENSMMUG00000006076	intraflagellar transport 74 [Source:VGNC Symbol;Acc:VGNC:73430]	1.717769694	0.001859946	0.006250395
ENSMMUG00000006079	leucine rich repeat containing 19 [Source:VGNC Symbol;Acc:VGNC:74337]	2.585055532	3.16E-07	2.33E-06
		-		
ENSMMUG00000064752	phospholipase A2 activating protein [Source:NCBI gene;Acc:707876]	2.786601784	5.08E-06	3.02E-05
		-		
ENSMMUG00000006073	caspase activity and apoptosis inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70634]	3.092621103	0.000344664	0.001392365
ENSMMUG00000050918		0.709254184	7.09E-05	0.000333522

ENSMMUG00000054514	interferon alpha 6 [Source:NCBI gene;Acc:106995851]	3.119922729	0.005991939	0.017365734
ENSMMUG00000010959	kelch like family member 9 [Source:VGNC Symbol;Acc:VGNC:74080]	4.191602307	4.23E-05	0.000208372
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	1.337414308	9.63E-14	1.80E-12
ENSMMUG000000051114		1.276320907	0.009992061	0.027035625
ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	2.088696029	3.03E-09	3.09E-08
ENSMMUG00000002224	PC4 and SFRS1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:76437]	2.522713407	0.004033311	0.012322216
ENSMMUG00000013466	tetratricopeptide repeat domain 39B [Source:VGNC Symbol;Acc:VGNC:79402]	-0.80421599	3.93E-06	2.38E-05
ENSMMUG000000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.128972219	1.42E-06	9.36E-06
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	1.115569258	1.24E-18	3.76E-17
ENSMMUG000000050923		1.423966773	8.40E-10	9.31E-09
ENSMMUG00000002175	TPD52 like 3 [Source:HGNC Symbol;Acc:HGNC:23382]	-0.79485197	0.002498731	0.008073243
ENSMMUG000000021344	interleukin 33 [Source:VGNC Symbol;Acc:VGNC:73606]	0.888569467	7.74E-05	0.000360809
ENSMMUG000000064013		1.135495636	0.001441906	0.004982169
ENSMMUG00000005469	endoplasmic reticulum metalloproteinase 1 [Source:VGNC Symbol;Acc:VGNC:72322]	0.628867689	9.64E-09	9.05E-08
ENSMMUG000000057739		0.456132253	0.002746032	0.008786119
ENSMMUG000000052972		0.399369665	0.006063137	0.017544618
ENSMMUG000000060228		0.541610603	0.000297911	0.001218093
ENSMMUG000000065127	insulin like 6 [Source:NCBI gene;Acc:693735]	0.543550513	0.000535669	0.002068206
ENSMMUG000000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	3.184102702	4.90E-42	1.73E-39
ENSMMUG000000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	3.322693657	5.25E-11	6.89E-10
ENSMMUG000000026024	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.34278863	0.000936773	0.003388375
ENSMMUG000000057520		2.656326253	0.006515082	0.01866306
ENSMMUG000000056693		0.905536946	1.94E-19	6.31E-18
ENSMMUG00000015093	very low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:78774]	0.400935847	0.004836727	0.01444686
ENSMMUG000000057073		4.709611135	5.11E-09	5.01E-08
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	1.420390099	4.98E-06	2.96E-05
ENSMMUG000000055563		0.530250559	0.005801621	0.016883445
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	1.008052845	9.94E-12	1.43E-10
ENSMMUG000000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.599185393	1.93E-14	3.88E-13
ENSMMUG00000003780	tight junction protein 2 [Source:NCBI gene;Acc:699586]	2.78079975	0.018484829	0.045673111
ENSMMUG00000011401	amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]	1.677029666	0.000119214	0.000533475
ENSMMUG00000015844	chromosome 15 C9orf135 homolog [Source:VGNC Symbol;Acc:VGNC:70452]	2.406646328	0.005740525	0.016728628
ENSMMUG000000063917		1.235069592	0.015798545	0.039974821
ENSMMUG00000012667	annexin A1 [Source:VGNC Symbol;Acc:VGNC:69944]	0.621185882	3.82E-09	3.83E-08
ENSMMUG000000022023	proprotein convertase subtilisin/kexin type 5 [Source:VGNC Symbol;Acc:VGNC:75787]	1.09196817	0.000917246	0.003322607
ENSMMUG000000056840		1.825167475	3.66E-18	1.07E-16

ENSMMUG00000064984		-	2.504246369	0.007339083	0.020677062
ENSMMUG00000008685	solute carrier family 28 member 3 [Source:VGNC Symbol;Acc:VGNC:77493]	-	3.410024475	0.007565125	0.021264368
ENSMMUG00000053862		-	3.572569739	0.00396807	0.012145815
ENSMMUG00000023117	neurotrophic receptor tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:75541]	-	0.724493262	7.79E-09	7.44E-08
ENSMMUG00000061650		-	3.135223754	0.004507694	0.013584454
ENSMMUG00000054687		-	2.576966385	0.01935235	0.047500058
ENSMMUG00000060761		-	2.137600499	1.98E-32	2.49E-30
ENSMMUG00000017053	death associated protein kinase 1 [Source:VGNC Symbol;Acc:VGNC:71732]	-	3.162739335	0.00378943	0.011639862
ENSMMUG00000054211		-	2.583476995	2.66E-08	2.33E-07
ENSMMUG00000057499		-	2.604112153	6.56E-12	9.62E-11
ENSMMUG00000033550		-	3.216047707	0.000141375	0.000621654
ENSMMUG00000049479		-	3.643244544	1.10E-05	6.14E-05
ENSMMUG00000053778		-	-1.46265711	7.03E-07	4.90E-06
ENSMMUG00000001748	spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]	-	2.639629025	7.93E-10	8.84E-09
ENSMMUG00000020009	receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]	-	1.582147538	4.58E-11	6.07E-10
ENSMMUG00000060533		-	1.377839881	1.38E-16	3.43E-15
ENSMMUG00000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	-	1.702728194	4.11E-11	5.47E-10
ENSMMUG00000004629	nucleolar protein 8 [Source:VGNC Symbol;Acc:VGNC:75237]	-	0.551629519	3.03E-05	0.000154458
ENSMMUG00000004630	centromere protein P [Source:NCBI gene;Acc:100427110]	-	0.626220133	0.014985299	0.038236748
ENSMMUG00000061517	osteomodulin [Source:NCBI gene;Acc:706272]	-	3.140461193	0.004439548	0.013398147
ENSMMUG00000009493	family with sequence similarity 120A [Source:NCBI gene;Acc:717459]	-	1.788798035	1.79E-06	1.16E-05
ENSMMUG00000002517	protein tyrosine phosphatase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76567]	-	-1.52155221	1.80E-06	1.16E-05
ENSMMUG00000016712	contactin associated protein like 3 [Source:NCBI gene;Acc:711939]	-	1.443594442	0.003587709	0.011103032
ENSMMUG00000060049		-	1.388916123	0.000143242	0.000629415
ENSMMUG00000050773		-	0.867903373	0.000979354	0.003534638
ENSMMUG00000005997	cell division cycle 14B [Source:NCBI gene;Acc:710300]	-	2.908723623	7.08E-06	4.10E-05
ENSMMUG00000019423	zinc finger protein 2 [Source:NCBI gene;Acc:703864]	-	2.692051955	0.002480443	0.008017648
ENSMMUG00000060932	zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]	-	1.741982163	1.47E-07	1.16E-06
ENSMMUG00000049314	dual specificity phosphatase 2 [Source:NCBI gene;Acc:718442]	-	3.498351327	6.40E-05	0.000303876
ENSMMUG00000057143	transmembrane protein 127 [Source:NCBI gene;Acc:705069]	-	0.984909166	0.003935992	0.012052604
ENSMMUG00000015515	REV1 DNA directed polymerase [Source:NCBI gene;Acc:709475]	-	0.709873363	0.000695794	0.002603085
ENSMMUG00000058615		-	1.422362505	0.000164793	0.000714795
ENSMMUG00000057336		-	0.564858033	1.69E-07	1.31E-06
ENSMMUG00000019682	mitochondrial ribosomal protein S9 [Source:VGNC Symbol;Acc:VGNC:74762]	-	1.700461898	0.000245314	0.001025949
ENSMMUG00000001390	NCK adaptor protein 2 [Source:VGNC Symbol;Acc:VGNC:75142]	-	1.289812792	0.000289164	0.001184286
ENSMMUG00000050861		-	1.092241921	0.013949893	0.036003641
ENSMMUG00000002589	sulfotransferase 1C3-like [Source:NCBI gene;Acc:114671897]	-	1.301148447	8.47E-10	9.38E-09

ENSMMUG00000060346		-	3.813161647	7.79E-16	1.78E-14
ENSMMUG00000010066	MER proto-oncogene, tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74706]	-	0.662483635	0.000269513	0.001115511
ENSMMUG00000002231	transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]	-	1.221525353	2.57E-07	1.93E-06
ENSMMUG00000044163	zinc finger CCCH-type containing 8 [Source:NCBI gene;Acc:698828]	-	0.867614174	2.08E-05	0.000109854
ENSMMUG00000016430	zinc finger CCCH-type containing 6 [Source:VGNC Symbol;Acc:VGNC:79458]	-	1.274342921	0.002581644	0.008317571
ENSMMUG00000059850	immunoglobulin kappa variable 1-9 [Source:NCBI gene;Acc:106993071]	-	1.921604417	0.000167335	0.000724338
ENSMMUG00000050630		-	1.728177099	0.001662601	0.005646066
ENSMMUG00000051042		-	0.999696638	0.002804165	0.008947025
ENSMMUG00000050256		-	1.328481367	0.01898617	0.046717257
ENSMMUG00000019116	dynein axonemal heavy chain 6 [Source:NCBI gene;Acc:694115]	-	0.295259586	0.012428539	0.032645276
ENSMMUG00000000908	succinate-CoA ligase alpha subunit [Source:VGNC Symbol;Acc:VGNC:78052]	-	0.816442383	0.005200756	0.01533649
ENSMMUG00000046169		-	2.469391706	2.49E-11	3.38E-10
ENSMMUG00000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	-	1.804043562	2.61E-15	5.70E-14
ENSMMUG00000062818	regenerating islet-derived protein 3-alpha [Source:NCBI gene;Acc:716890]	-	2.010068176	5.20E-05	0.000251857
ENSMMUG00000040046	lithostathine-1-alpha [Source:NCBI gene;Acc:711810]	-	1.896403515	0.00017361	0.000748766
ENSMMUG00000049292	regenerating islet-derived 1 alpha [Source:NCBI gene;Acc:711892]	-	3.482011501	0.003017	0.009529736
ENSMMUG00000054863		-	-1.72463108	0.000831376	0.003048036
ENSMMUG00000056785		-	0.760705134	0.000188512	0.000808689
ENSMMUG00000056765		-	0.559849871	0.00022208	0.000937066
ENSMMUG00000062747		-	0.384810181	0.000188859	0.000809942
ENSMMUG00000018512	GC-rich sequence DNA-binding factor 2 [Source:VGNC Symbol;Acc:VGNC:72715]	-	0.492499137	0.002138804	0.007045863
ENSMMUG00000023758	mitochondrial ribosomal protein L19 [Source:VGNC Symbol;Acc:VGNC:74743]	-	0.385961454	0.00219773	0.0072091
ENSMMUG00000048322	eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]	-	1.501584436	9.61E-05	0.000440542
ENSMMUG00000063035		-	2.964495544	0.013030661	0.033956196
ENSMMUG00000051843		-	1.112248745	2.20E-05	0.000115691
ENSMMUG00000053587		-	2.294515828	0.008160352	0.022722123
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	-	2.676369204	2.75E-13	4.82E-12
ENSMMUG00000058044		-	0.920027033	3.74E-08	3.18E-07
ENSMMUG00000010864	STAM binding protein [Source:VGNC Symbol;Acc:VGNC:77935]	-	3.3816004	0.006422738	0.018448422
ENSMMUG00000030805	TP53RK binding protein [Source:VGNC Symbol;Acc:VGNC:79426]	-	3.240840216	0.019091331	0.046906641
ENSMMUG00000008396	methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]	-	1.069423448	1.03E-09	1.13E-08
ENSMMUG00000002093	testis expressed 261 [Source:NCBI gene;Acc:703863]	-	1.337387445	1.52E-12	2.45E-11
ENSMMUG00000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	-	-1.86117898	1.51E-11	2.11E-10

ENSMMUG00000041775	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.139539782	0.010546639	0.028319149
ENSMMUG00000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	-	1.556172561	3.77E-23	1.90E-21
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	-	3.505198842	6.52E-32	7.44E-30
ENSMMUG00000059700		-	3.582445105	3.25E-08	2.81E-07
ENSMMUG00000020855	CD207 molecule [Source:VGNC Symbol;Acc:VGNC:70818]	-	1.79732221	0.009095055	0.024949994
ENSMMUG00000020854	C-type lectin domain family 4 member F [Source:VGNC Symbol;Acc:VGNC:71349]	-	4.460283725	3.55E-05	0.000178485
ENSMMUG00000010592	adducin 2 [Source:VGNC Symbol;Acc:VGNC:69529]	-	2.016147223	0.000442238	0.001740087
ENSMMUG00000063699		-	2.829159457	0.008960051	0.02462976
ENSMMUG00000064749		-	2.093211144	7.68E-06	4.40E-05
ENSMMUG00000007868	AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]	-	0.997209612	0.000207364	0.000880897
ENSMMUG00000049539		-	1.236091588	5.42E-05	0.000261862
ENSMMUG00000062212	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.828366039	0.008863185	0.024404203
ENSMMUG00000058336		-	0.926991703	0.002993022	0.009478222
ENSMMUG00000007552	aprataxin and PNKP like factor [Source:NCBI gene;Acc:705875]	-	0.847297222	0.009212102	0.025224423
ENSMMUG00000017209	C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]	-	1.593644119	0.000968199	0.003497779
ENSMMUG00000057729		-	3.589910611	0.016773464	0.042111134
ENSMMUG00000047067	SERTA domain containing 2 [Source:NCBI gene;Acc:696216]	-	0.831113245	4.33E-05	0.000213049
ENSMMUG00000006503	aftiphilin [Source:VGNC Symbol;Acc:VGNC:69701]	-	0.734755911	0.001236218	0.004352592
ENSMMUG00000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	-	1.008872141	3.06E-07	2.26E-06
ENSMMUG00000008772	VPS54 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:79159]	-	0.424915355	0.001448224	0.005002832
ENSMMUG00000008770	UDP-glucose pyrophosphorylase 2 [Source:VGNC Symbol;Acc:VGNC:78712]	-	0.569129383	0.000903463	0.003277486
ENSMMUG00000060943		-	0.54385881	7.70E-06	4.41E-05
ENSMMUG00000006163	malate dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:74690]	-	1.188956293	1.11E-13	2.05E-12
ENSMMUG00000003979	WD repeat containing planar cell polarity effector [Source:VGNC Symbol;Acc:VGNC:79677]	-	1.315520059	1.82E-05	9.74E-05
ENSMMUG00000057986	transmembrane protein 17 [Source:NCBI gene;Acc:694384]	-	1.429334571	0.000927146	0.003355193
ENSMMUG00000063238		-	2.313946264	3.16E-06	1.95E-05
ENSMMUG00000006941	exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]	-	1.066311423	6.46E-07	4.54E-06
ENSMMUG00000008098	ubiquitin specific peptidase 34 [Source:VGNC Symbol;Acc:VGNC:79223]	-	0.626389163	3.03E-05	0.000154501
ENSMMUG00000005685	pseudouridine synthase 10 [Source:VGNC Symbol;Acc:VGNC:76547]	-	1.339928671	1.05E-08	9.77E-08
ENSMMUG00000055963		-	1.794572892	1.05E-11	1.50E-10
ENSMMUG00000010834	REL proto-oncogene, NF-kB subunit [Source:VGNC Symbol;Acc:VGNC:76892]	-	0.620486512	9.35E-09	8.79E-08
ENSMMUG00000049993		-	0.478564788	2.71E-07	2.03E-06
ENSMMUG00000015888	coiled-coil domain containing 85A [Source:VGNC Symbol;Acc:VGNC:70905]	-	2.906006426	0.016376883	0.041255167
ENSMMUG00000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	-	3.197670448	2.29E-05	0.00011997
ENSMMUG00000007001	protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]	-	3.382284591	0.010811312	0.028909442
ENSMMUG00000008104	proteasome activator subunit 4 [Source:VGNC Symbol;Acc:VGNC:76295]	-	0.382808349	0.005778754	0.016826807

ENSMMUG0000008105	G protein-coupled receptor 75 [Source:VGNC Symbol;Acc:VGNC:73143]	0.325005319	0.01422153	0.036533048
ENSMMUG00000062091		3.07281211	4.99E-09	4.90E-08
ENSMMUG00000065301		-	-	-
ENSMMUG00000061344		0.740162865	0.003479602	0.010806807
ENSMMUG00000052169	potassium two pore domain channel subfamily K member 12 [Source:NCBI gene;Acc:715556]	1.436422393	0.000919072	0.003327599
ENSMMUG00000053577		-1.99291284	0.003268073	0.010244246
ENSMMUG0000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	-2.31660112	6.79E-11	8.79E-10
ENSMMUG00000059300		-	-	-
ENSMMUG00000058455	sperm-tail PG-rich repeat containing 4 [Source:NCBI gene;Acc:717951]	2.378241459	2.44E-10	2.94E-09
ENSMMUG0000003310	tetratricopeptide repeat domain 7A [Source:VGNC Symbol;Acc:VGNC:79202]	0.946802405	1.80E-05	9.65E-05
ENSMMUG00000048973	CXXC repeat containing interactor of PDZ3 domain [Source:NCBI gene;Acc:714949]	0.649888585	0.013509072	0.035036644
ENSMMUG00000038319	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.302203648	0.006581898	0.018832636
ENSMMUG00000014425	protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]	0.326158875	0.002209585	0.00723998
ENSMMUG00000054734		-	-	-
ENSMMUG00000023752	SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]	2.231381112	0.005395028	0.015846359
ENSMMUG00000053683		1.15011877	2.63E-06	1.65E-05
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	-	-	-
ENSMMUG00000006312	calmodulin-lysine N-methyltransferase [Source:VGNC Symbol;Acc:VGNC:70637]	0.946756883	6.55E-05	0.000310662
ENSMMUG00000006311	prolyl endopeptidase like [Source:VGNC Symbol;Acc:VGNC:76346]	-	-	-
ENSMMUG00000051072		1.301281332	2.17E-06	1.38E-05
ENSMMUG00000019841	leucine rich pentatricopeptide repeat containing [Source:VGNC Symbol;Acc:VGNC:82177]	-0.98627905	0.000558582	0.002143833
ENSMMUG0000008081	ATP binding cassette subfamily G member 8 [Source:VGNC Symbol;Acc:VGNC:69392]	-	-	-
ENSMMUG0000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	1.253274531	6.54E-17	1.67E-15
ENSMMUG00000062474	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-	-
ENSMMUG0000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	1.812649683	0.000642384	0.002429006
ENSMMUG00000025150	Y RNA [Source:RFAM;Acc:RF00019]	-	-	-
ENSMMUG0000000642	THADA armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:79185]	0.538134062	0.00705238	0.0200013
ENSMMUG00000064735	3-hydroxyanthranilate 3,4-dioxygenase [Source:NCBI gene;Acc:713101]	0.9693386	7.70E-09	7.36E-08
ENSMMUG00000063947	oxoeicosanoid receptor 1 [Source:NCBI gene;Acc:713039]	-	-	-
ENSMMUG00000020744	metastasis associated 1 family member 3 [Source:VGNC Symbol;Acc:VGNC:74814]	0.944930375	2.67E-05	0.000137978
ENSMMUG00000056008		1.665099946	1.07E-11	1.52E-10
ENSMMUG00000055395	Y RNA [Source:RFAM;Acc:RF00019]	1.38660698	3.07E-21	1.25E-19
ENSMMUG00000054310	potassium voltage-gated channel modifier subfamily G member 3 [Source:NCBI gene;Acc:712838]	1.781896949	9.09E-12	1.31E-10
ENSMMUG00000064710		1.34621114	1.49E-19	4.91E-18
ENSMMUG00000043458	transmembrane protein 178A [Source:NCBI gene;Acc:714010]	3.689680804	0.000213431	0.000905113
ENSMMUG00000056330		0.40039888	0.003820623	0.011730816
ENSMMUG00000013901	mitogen-activated protein kinase kinase kinase kinase 3 [Source:VGNC Symbol;Acc:VGNC:81466]	0.741373383	1.45E-07	1.14E-06
ENSMMUG00000020575	SOS Ras/Rac guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:77837]	1.279703945	5.27E-11	6.90E-10
ENSMMUG00000060562		1.073431186	9.79E-08	7.90E-07
ENSMMUG0000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]	0.914180405	1.39E-13	2.53E-12
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	0.850080261	0.005733008	0.016710007
		3.323006902	0.009406558	0.025694858
		-	-	-
		2.070495462	0.002425672	0.007876663
		-	-	-
		0.807953922	0.000143504	0.000630195
		1.898475258	2.78E-06	1.73E-05
		1.333220824	2.41E-09	2.50E-08
		0.614501534	0.000998511	0.003597649
		1.121500642	0.00012456	0.000555391
		-0.69955164	8.58E-07	5.89E-06
		1.867910055	1.63E-28	1.41E-26

ENSMMUG00000054398		1.491177577	7.85E-10	8.76E-09
ENSMMUG00000016442	glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]	3.066750396	2.77E-10	3.30E-09
ENSMMUG00000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	2.464842659	3.03E-20	1.09E-18
ENSMMUG00000016434	NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]	3.017765125	3.53E-18	1.04E-16
ENSMMUG00000016433	CCAAT enhancer binding protein zeta [Source:VGNC Symbol;Acc:VGNC:71082]	3.611419952	0.00321315	0.010093415
ENSMMUG00000001278	vitrin [Source:VGNC Symbol;Acc:VGNC:78773]	0.5477897	0.004764731	0.014260536
		-		
ENSMMUG00000049720		2.715624451	0.000489654	0.001909433
		-		
ENSMMUG00000053593		0.797119421	0.000435878	0.001719166
ENSMMUG00000021436	latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]	1.837961896	2.50E-14	4.94E-13
ENSMMUG00000009372	tetratricopeptide repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:79565]	2.007791255	0.02020714	0.049304357
		-		
ENSMMUG00000021691	spastin [Source:VGNC Symbol;Acc:VGNC:77857]	1.817958932	5.61E-08	4.69E-07
ENSMMUG00000008288	sorting nexin 17 [Source:VGNC Symbol;Acc:VGNC:77709]	3.272607089	4.61E-06	2.76E-05
ENSMMUG00000058351		0.410567312	0.008669562	0.023955582
		-		
ENSMMUG00000048513	tudor domain containing 15 [Source:NCBI gene;Acc:703066]	0.761856513	0.000999584	0.003600639
		-		
ENSMMUG00000007692	apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]	0.990135726	9.78E-07	6.64E-06
ENSMMUG00000003355	lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]	1.492236302	1.24E-18	3.78E-17
ENSMMUG00000050446	growth differentiation factor 7 [Source:NCBI gene;Acc:702462]	0.68799141	0.001231906	0.004338438
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	2.067943674	1.35E-33	1.92E-31
		-		
ENSMMUG00000056023	succinate dehydrogenase complex, subunit D, integral membrane protein [Source:NCBI gene;Acc:711326]	2.876985186	0.013243599	0.034435539
		-		
ENSMMUG00000064216		1.799365954	0.00137096	0.004769257
		-		
ENSMMUG00000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	2.598996861	8.22E-08	6.70E-07
		-		
ENSMMUG00000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	3.451113346	5.06E-12	7.58E-11
		-		
ENSMMUG00000040529	visinin like 1 [Source:NCBI gene;Acc:699459]	4.424654704	4.09E-06	2.47E-05
ENSMMUG00000052363	MYCN proto-oncogene, bHLH transcription factor [Source:NCBI gene;Acc:698699]	0.635143136	1.86E-05	9.94E-05
ENSMMUG00000064240		0.541514364	3.21E-05	0.000162728
ENSMMUG00000056755		1.711763365	0.000186594	0.000800689
ENSMMUG00000050686		1.017804429	3.82E-05	0.000190118
ENSMMUG00000020249	growth regulating estrogen receptor binding 1 [Source:VGNC Symbol;Acc:VGNC:73227]	0.456752072	0.00100866	0.003627164
ENSMMUG00000023225	E2F transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:72027]	0.809212791	7.92E-08	6.47E-07
ENSMMUG00000057805		1.329604619	0.001218126	0.00429603
ENSMMUG00000059188		2.325552446	4.42E-12	6.66E-11
ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	2.836270178	2.70E-21	1.11E-19
ENSMMUG00000060435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.239721349	5.24E-13	8.98E-12
ENSMMUG00000033092	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.914990733	0.005931107	0.017212979
ENSMMUG00000022785	solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]	2.673389134	3.72E-07	2.71E-06
		-		
ENSMMUG00000010320	ATPase H+ transporting V1 subunit C2 [Source:VGNC Symbol;Acc:VGNC:70091]	1.395431433	0.00795557	0.02221879
		-		
ENSMMUG00000010671	nucleolar protein 10 [Source:VGNC Symbol;Acc:VGNC:75260]	0.870725171	0.019031511	0.04678225
		-		
ENSMMUG00000062012		3.156243861	0.020399183	0.049674858
ENSMMUG00000063262		-1.4403179	1.21E-09	1.31E-08
		-		
ENSMMUG00000037908		1.516334901	1.73E-06	1.13E-05

ENSMMUG00000022879	EARP complex and GARP complex interacting protein 1 [Source:NCBI gene;Acc:707650]	3.062929634	8.29E-05	0.000385015
ENSMMUG00000009310	myelin transcription factor 1 like [Source:NCBI gene;Acc:706914]	0.843033055	2.37E-06	1.50E-05
ENSMMUG00000009662	thyroid peroxidase [Source:VGNC Symbol;Acc:VGNC:78636]	0.578023899	0.00907524	0.024904849
ENSMMUG00000050687	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.908440952	0.004058544	0.012384405
ENSMMUG00000009660	syntrophin gamma 2 [Source:VGNC Symbol;Acc:VGNC:77694]	0.397831283	0.003443085	0.010706845
ENSMMUG00000061533		3.169791276	4.32E-39	1.02E-36
ENSMMUG00000050543		2.855716114	3.17E-16	7.53E-15
ENSMMUG00000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	3.930132545	5.55E-33	7.48E-31
ENSMMUG00000038858		1.023672915	2.17E-14	4.33E-13
ENSMMUG00000063735		1.373917843	0.000689639	0.002583596
ENSMMUG00000022914	RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]	0.828302215	1.64E-05	8.90E-05
ENSMMUG00000005588	SH3 and multiple ankyrin repeat domains 3 [Source:NCBI gene;Acc:100430318]	0.687433757	0.003995919	0.01222349
ENSMMUG00000011278	cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]	0.469914305	7.80E-05	0.000363529
ENSMMUG00000000553	bromodomain containing 1 [Source:VGNC Symbol;Acc:VGNC:70280]	0.978830406	0.008026504	0.022391471
ENSMMUG00000055848		0.872185259	0.001887361	0.006329618
ENSMMUG00000003764	TBC1 domain family member 22A [Source:VGNC Symbol;Acc:VGNC:82077]	0.754681773	8.58E-05	0.000397748
ENSMMUG00000056186		1.511310603	2.04E-05	0.000108467
ENSMMUG00000020993	cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]	3.282771047	3.04E-16	7.24E-15
ENSMMUG00000000807	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [Source:VGNC Symbol;Acc:VGNC:79500]	2.649337019	2.94E-07	2.18E-06
ENSMMUG00000008136	G2 and S-phase expressed 1 [Source:VGNC Symbol;Acc:VGNC:73162]	1.746081445	3.91E-06	2.37E-05
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	-2.61222067	3.10E-20	1.11E-18
ENSMMUG00000027003	microRNA let-7a-3 [Source:HGNC Symbol;Acc:HGNC:31478]	1.277094131	0.004584744	0.013799828
ENSMMUG00000023004	structural maintenance of chromosomes 1B [Source:VGNC Symbol;Acc:VGNC:77657]	0.613110877	1.47E-06	9.67E-06
ENSMMUG00000023003	family with sequence similarity 118 member A [Source:VGNC Symbol;Acc:VGNC:72265]	0.620023453	4.11E-05	0.000202924
ENSMMUG00000031000	Rho GTPase activating protein 8 [Source:NCBI gene;Acc:716745]	1.637655148	0.000420743	0.001666565
ENSMMUG00000058874	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.129723024	0.002614569	0.008407211
ENSMMUG00000065099		1.737669555	1.26E-09	1.37E-08
ENSMMUG00000005769	EF-hand calcium binding domain 6 [Source:VGNC Symbol;Acc:VGNC:72092]	0.958520352	0.00015136	0.00066195
ENSMMUG00000022590	metallophosphoesterase domain containing 1 [Source:NCBI gene;Acc:715021]	0.926701621	0.005524475	0.016175315
ENSMMUG00000008106	solute carrier family 25 member 17 [Source:NCBI gene;Acc:705547]	0.914708446	5.48E-05	0.000263559
ENSMMUG00000056662		1.197983855	6.13E-05	0.000292355
ENSMMUG00000012101	synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]	-1.52602506	5.44E-08	4.56E-07
ENSMMUG00000048395	chromobox 6 [Source:NCBI gene;Acc:702133]	5.791634377	1.69E-21	7.10E-20
ENSMMUG00000004869	neuronal pentraxin receptor [Source:NCBI gene;Acc:100428434]	3.572752533	0.00147452	0.005080652
ENSMMUG00000004868	dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]	4.20529385	3.29E-06	2.02E-05
ENSMMUG00000007277	GTP binding protein 1 [Source:VGNC Symbol;Acc:VGNC:73320]	1.683365305	7.65E-06	4.39E-05
ENSMMUG00000021083	Josephin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73920]	1.374138927	0.000123155	0.000550119

ENSMMUG0000000364	translocase of outer mitochondrial membrane 22 [Source:NCBI gene;Acc:701286]	2.010917374	0.000169	0.000730478
ENSMMUG00000061986		2.067174093	0.000101474	0.000463537
ENSMMUG00000017680	chibby family member 1, beta catenin antagonist [Source:NCBI gene;Acc:100429409]	2.113416159	0.000153966	0.000671562
ENSMMUG00000012467	family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]	1.747618215	1.14E-07	9.14E-07
ENSMMUG00000061118		1.941430227	0.000235011	0.000987874
ENSMMUG00000049788		-2.2565867	1.35E-07	1.07E-06
ENSMMUG0000006987	RNA polymerase II subunit F [Source:NCBI gene;Acc:699566]	0.409701377	0.000614248	0.002330936
ENSMMUG00000019785	eukaryotic translation initiation factor 3 subunit L [Source:NCBI gene;Acc:699189]	1.490940098	0.020087299	0.049044228
ENSMMUG00000015258	glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]	2.730385429	2.41E-06	1.52E-05
ENSMMUG00000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	1.133002381	2.98E-17	7.93E-16
ENSMMUG00000056629	nucleolar protein 12 [Source:NCBI gene;Acc:698318]	1.641130686	5.39E-05	0.000260082
ENSMMUG00000003007	caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]	3.661532489	1.00E-11	1.43E-10
ENSMMUG00000003005	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]	5.860963863	1.87E-08	1.69E-07
ENSMMUG00000052785	extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]	4.690660426	1.19E-07	9.46E-07
ENSMMUG00000062922		0.535885385	0.019863484	0.048569739
ENSMMUG00000052038		1.402651973	0.017438985	0.043443667
ENSMMUG00000000151	transmembrane serine protease 6 [Source:VGNC Symbol;Acc:VGNC:79038]	0.55127149	5.75E-05	0.000275626
ENSMMUG00000058352		1.47794257	6.12E-06	3.58E-05
ENSMMUG00000012350	mercaptopyruvate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:74922]	1.355080384	2.84E-06	1.77E-05
ENSMMUG00000014986	testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]	1.439067885	2.15E-13	3.82E-12
ENSMMUG00000008160	neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]	2.517917086	2.50E-13	4.40E-12
ENSMMUG00000055820		2.757619837	7.82E-13	1.31E-11
ENSMMUG00000008778	parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]	2.416400731	1.81E-20	6.76E-19
ENSMMUG00000006101	myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]	1.247301928	8.35E-09	7.91E-08
ENSMMUG00000060967		0.899900493	0.000249948	0.001043853
ENSMMUG00000014010	RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]	1.175295767	1.04E-15	2.36E-14
ENSMMUG00000048463	apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]	1.13407194	6.30E-12	9.28E-11
ENSMMUG00000059824		-2.36679894	0.005856972	0.017021144
ENSMMUG00000062825	TIMP metalloproteinase inhibitor 3 [Source:NCBI gene;Acc:574381]	0.455694812	0.010005927	0.027068206
ENSMMUG00000051047	uncharacterized protein C22orf42-like [Source:NCBI gene;Acc:106996637]	3.153021251	0.012993634	0.033877564
ENSMMUG00000063383		2.299909935	1.15E-06	7.71E-06
ENSMMUG00000020746	proline rich 14 like [Source:VGNC Symbol;Acc:VGNC:76338]	0.993551951	0.009455257	0.025809213
ENSMMUG00000002182	phosphatidylserine decarboxylase [Source:VGNC Symbol;Acc:VGNC:76005]	1.702187097	1.54E-05	8.36E-05
ENSMMUG00000002181	SFI1 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]	1.019634776	1.78E-14	3.61E-13
ENSMMUG00000015001	LIM domain kinase 2 [Source:VGNC Symbol;Acc:VGNC:74270]	0.76162027	0.00055564	0.002134753
ENSMMUG00000056777	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.360396945	0.003375072	0.010524036
ENSMMUG00000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]	1.747203548	2.59E-07	1.95E-06
ENSMMUG00000051960		2.196015493	0.004958089	0.014758067
ENSMMUG00000056113		2.259443974	0.000651697	0.002458577

ENSMMUG0000005898	MORC family CW-type zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:74810]	2.277602494	0.001968141	0.006563419
ENSMMUG00000045603	mml-mir-3200 [Source:miRBase;Acc:MI0020871]	2.398962226	0.004126143	0.012580323
ENSMMUG00000019805	dual specificity phosphatase 18 [Source:VGNC Symbol;Acc:VGNC:71858]	0.826520064	1.42E-06	9.36E-06
ENSMMUG00000052343		0.828799772	0.005778438	0.016826807
ENSMMUG00000021374	EWS RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72446]	-1.63233862	1.33E-11	1.87E-10
ENSMMUG00000021373	rhomboid domain containing 3 [Source:NCBI gene;Acc:714479]	1.767378794	2.53E-12	3.97E-11
ENSMMUG00000021372	EMI domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72063]	1.254741197	2.15E-08	1.91E-07
ENSMMUG00000021370	kringle containing transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:74066]	-1.70557216	1.68E-06	1.10E-05
ENSMMUG00000058170	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.329670389	3.61E-06	2.20E-05
ENSMMUG0000007215	X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]	1.900045787	5.15E-10	5.90E-09
ENSMMUG00000053198	coiled-coil domain containing 117 [Source:NCBI gene;Acc:713804]	0.762232958	0.007936979	0.022179273
ENSMMUG00000020489	HscB mitochondrial iron-sulfur cluster cochaperone [Source:VGNC Symbol;Acc:VGNC:73454]	1.313256988	7.59E-13	1.28E-11
ENSMMUG00000020486	checkpoint kinase 2 [Source:VGNC Symbol;Acc:VGNC:70958]	0.792748512	1.91E-09	2.00E-08
ENSMMUG0000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	3.001694386	1.13E-21	4.87E-20
ENSMMUG00000042122	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.50590905	0.001027778	0.003688757
ENSMMUG00000023450	tyrosylprotein sulfotransferase 2 [Source:VGNC Symbol;Acc:VGNC:78639]	1.022377347	7.81E-05	0.000363924
ENSMMUG00000023446	tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]	-1.29368039	2.28E-05	0.000119702
ENSMMUG00000023443	SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]	1.813959996	8.65E-12	1.25E-10
ENSMMUG00000023442	HPS4 biogenesis of lysosomal organelles complex 3 subunit 2 [Source:VGNC Symbol;Acc:VGNC:73396]	1.637181906	0.00751309	0.021130121
ENSMMUG00000016052	seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]	1.848337114	1.15E-10	1.44E-09
ENSMMUG00000010839	small G protein signaling modulator 1 [Source:VGNC Symbol;Acc:VGNC:77336]	0.663933976	1.17E-07	9.36E-07
ENSMMUG00000031048	transmembrane protein 211 [Source:VGNC Symbol;Acc:VGNC:79935]	2.058852818	0.003456666	0.01074007
ENSMMUG00000006853	crystallin beta B2 [Source:NCBI gene;Acc:100144420]	2.355814716	2.39E-08	2.12E-07
ENSMMUG00000044345	ral-GDS-related protein [Source:NCBI gene;Acc:710293]	0.536895252	0.010611963	0.028443054
ENSMMUG00000031051	aspartate-rich protein 1 [Source:NCBI gene;Acc:107000598]	0.675210094	0.000381731	0.001527129
ENSMMUG00000009106	solute carrier family 2 member 11 [Source:NCBI gene;Acc:699450]	0.504949876	0.00088372	0.003212149
ENSMMUG00000023053	glutathione S-transferase theta 2B [Source:NCBI gene;Acc:700185]	0.285525716	0.003486942	0.010825068
ENSMMUG00000053799	glutathione S-transferase theta 1 [Source:NCBI gene;Acc:700314]	0.456176403	0.002112916	0.006977773
ENSMMUG00000043974	ral-GDS-related protein [Source:NCBI gene;Acc:710293]	1.098759929	0.006387951	0.018359171
ENSMMUG00000044782		1.034164686	8.30E-11	1.06E-09
ENSMMUG00000020999	gamma-glutamyltransferase 1 [Source:NCBI gene;Acc:707545]	0.879968191	0.000975367	0.003521103
ENSMMUG00000000263	guanylyl cyclase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73168]	1.173957352	0.003970009	0.012149243
ENSMMUG00000000262	beta-ureidopropionase 1 [Source:VGNC Symbol;Acc:VGNC:79029]	1.140246852	0.001189788	0.004206091

ENSMMUG00000051567		-0.6647166	0.002477599	0.008013696
ENSMMUG00000049542		2.50709031	8.16E-15	1.72E-13
ENSMMUG00000023622	BCR activator of RhoGEF and GTPase [Source:NCBI gene;Acc:709258]	1.688468015	1.13E-09	1.23E-08
ENSMMUG00000001776	G protein subunit alpha z [Source:VGNC Symbol;Acc:VGNC:73094]	0.698961987	1.11E-05	6.16E-05
ENSMMUG00000014641		0.603502534	3.02E-07	2.23E-06
ENSMMUG00000020092		0.668123625	0.001191076	0.004209642
ENSMMUG00000058253		0.816237215	0.017032598	0.042639
ENSMMUG00000044861		0.615592057	0.001456753	0.005026443
		-		
ENSMMUG00000054655	immunoglobulin lambda variable 3-10 [Source:HGNC Symbol;Acc:HGNC:5897]	0.762784924	0.0027744	0.008864457
ENSMMUG00000014309	zinc finger protein 280A [Source:VGNC Symbol;Acc:VGNC:79152]	0.708557705	0.001129714	0.004020326
ENSMMUG00000047452		3.430629487	2.06E-05	0.000109304
ENSMMUG00000056950		1.392397614	2.89E-17	7.71E-16
ENSMMUG00000061925		1.01037862	0.008673477	0.023961936
ENSMMUG00000039205		2.252373394	2.67E-06	1.68E-05
ENSMMUG00000060270		3.409739819	5.12E-05	0.000248559
		-		
ENSMMUG00000047978	ral-GDS-related protein-like [Source:NCBI gene;Acc:106995524]	0.883136168	0.001148147	0.004079305
		-		
ENSMMUG00000047015	ral-GDS-related protein-like [Source:NCBI gene;Acc:106995524]	0.984954598	2.23E-05	0.000117033
ENSMMUG00000018798	stromal cell derived factor 2 like 1 [Source:NCBI gene;Acc:697928]	0.816573672	6.57E-05	0.000311517
ENSMMUG00000052464		1.515193561	0.006494984	0.018617237
ENSMMUG00000018531	peptidylprolyl isomerase like 2 [Source:VGNC Symbol;Acc:VGNC:76239]	0.604381286	0.000254851	0.001061341
ENSMMUG00000056022		0.766367482	0.000306208	0.001249607
ENSMMUG00000062755		1.7382144	2.00E-08	1.80E-07
ENSMMUG00000049130		3.031179355	6.54E-56	1.08E-52
ENSMMUG00000063914		3.164057636	5.68E-81	2.81E-77
ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]	3.132245669	8.85E-39	2.02E-36
ENSMMUG00000011547	reticulon 4 receptor [Source:VGNC Symbol;Acc:VGNC:77047]	0.622303426	0.018641791	0.045976677
ENSMMUG00000021904	cell division cycle 45 [Source:VGNC Symbol;Acc:VGNC:70800]	0.696145313	0.001720003	0.005822333
ENSMMUG00000031106	ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]	0.88491006	1.18E-07	9.41E-07
		-		
ENSMMUG00000009650	HIR histone cell cycle regulation defective homolog A (<i>S. cerevisiae</i>) [Source:NCBI gene;Acc:719142]	0.314656213	0.002143193	0.007053606
ENSMMUG00000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]	1.986513143	2.80E-18	8.26E-17
ENSMMUG00000019925	DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]	1.141323624	4.54E-09	4.48E-08
ENSMMUG00000014140	peroxisomal biogenesis factor 26 [Source:NCBI gene;Acc:710470]	-0.84300418	0.004149207	0.012640251
ENSMMUG00000020801	microtubule associated monooxygenase, calponin and LIM domain containing 3 [Source:NCBI gene;Acc:710292]	0.442409249	0.007033971	0.019958761
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	2.962568077	1.96E-19	6.37E-18
ENSMMUG00000021476	BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]	3.548815379	2.85E-17	7.61E-16
ENSMMUG00000058916		3.689672873	5.13E-32	5.94E-30
ENSMMUG00000021477	ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]	3.837193586	2.29E-22	1.07E-20
		-		
ENSMMUG00000031121	solute carrier family 25 member 18 [Source:VGNC Symbol;Acc:VGNC:77434]	1.531760901	4.37E-09	4.33E-08
		-		
ENSMMUG00000006731	CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]	2.622238589	7.24E-22	3.20E-20
ENSMMUG00000059302	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.44175355	5.41E-11	7.09E-10
ENSMMUG00000022223	transmembrane protein 121B [Source:VGNC Symbol;Acc:VGNC:79139]	0.517385508	0.016417609	0.041331053
ENSMMUG00000022222	interleukin 17 receptor A [Source:VGNC Symbol;Acc:VGNC:73712]	0.558578885	0.000970514	0.00350529
		-		
ENSMMUG00000006668	tubulin alpha-3 chain [Source:NCBI gene;Acc:707215]	1.212351137	2.82E-05	0.000144911
		-		
ENSMMUG00000054724		0.936921701	0.001036309	0.003714882

ENSMMUG00000049841	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.566255041	0.007782114	0.021795799
ENSMMUG00000055391		1.190318088	0.018843658	0.046428218
ENSMMUG00000009953	ninein like [Source:VGNC Symbol;Acc:VGNC:75273]	0.772883661	0.007181503	0.020305374
ENSMMUG00000002397	GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]	0.976373477	0.001407537	0.004880471
ENSMMUG00000059374		1.099942589	0.014159572	0.036430682
ENSMMUG00000009199	glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]	0.688979719	0.019000956	0.046745883
ENSMMUG00000053965		0.663983362	0.002382436	0.007744746
ENSMMUG00000042668	cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]	1.902073655	7.11E-12	1.04E-10
ENSMMUG00000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]	1.729271391	1.84E-11	2.55E-10
ENSMMUG00000007708	N-alpha-acetyltransferase 20, NatB catalytic subunit [Source:VGNC Symbol;Acc:VGNC:84533]	1.541724221	0.00018307	0.000786709
ENSMMUG00000065262	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-2.25838796	0.002804976	0.008947686
ENSMMUG00000010114	Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]	1.695465579	3.24E-10	3.81E-09
ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]	1.242600781	0.000124749	0.000556064
ENSMMUG00000006519	taspase 1 [Source:VGNC Symbol;Acc:VGNC:78129]	3.222428945	7.48E-05	0.000350243
ENSMMUG00000031166	McKusick-Kaufman syndrome [Source:NCBI gene;Acc:718547]	3.432532009	0.000102878	0.000469009
ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]	2.393840691	9.12E-06	5.16E-05
ENSMMUG00000015923	ankyrin repeat and EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69615]	0.815568387	0.006510137	0.018652498
ENSMMUG00000021137	thioredoxin related transmembrane protein 4 [Source:VGNC Symbol;Acc:VGNC:79484]	2.264317208	9.42E-07	6.42E-06
ENSMMUG00000055897		2.351206529	6.31E-26	4.12E-24
ENSMMUG00000057687		2.467714917	2.92E-29	2.73E-27
ENSMMUG00000064554	leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]	1.119865271	0.013522161	0.03506446
ENSMMUG00000013722	chromogranin B [Source:VGNC Symbol;Acc:VGNC:71033]	0.730051352	0.002741157	0.008777783
ENSMMUG00000056093	shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]	1.678043423	1.29E-11	1.82E-10
ENSMMUG00000022345		1.309528805	5.10E-07	3.64E-06
ENSMMUG00000050080	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.265948918	0.011337481	0.030174954
ENSMMUG00000064391		1.799012134	4.02E-16	9.42E-15
ENSMMUG00000001809	glycerophosphocholine phosphodiesterase 1 [Source:VGNC Symbol;Acc:VGNC:73017]	1.186837365	0.004336772	0.013135532
ENSMMUG00000065232		2.262569534	0.00668926	0.019102969
ENSMMUG00000013261	CDP-diacylglycerol synthase 2 [Source:VGNC Symbol;Acc:VGNC:70995]	-1.87184868	1.86E-05	9.93E-05
ENSMMUG00000020005	solute carrier family 23 member 2 [Source:NCBI gene;Acc:717939]	0.900581046	0.000548312	0.002113166
ENSMMUG00000020004	Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]	1.141865049	1.86E-10	2.27E-09
ENSMMUG00000051480		0.775811155	0.012635599	0.033095362
ENSMMUG00000020912	spermine oxidase [Source:NCBI gene;Acc:718761]	0.830535838	0.000237724	0.000997298
ENSMMUG00000018922	cell division cycle 25B [Source:VGNC Symbol;Acc:VGNC:70795]	0.601893154	3.86E-08	3.28E-07
ENSMMUG00000022070	sialic acid binding Ig like lectin 1 [Source:VGNC Symbol;Acc:VGNC:77220]	0.641050699	5.17E-07	3.69E-06
ENSMMUG00000003633	solute carrier family 4 member 11 [Source:VGNC Symbol;Acc:VGNC:77721]	0.544379499	3.01E-08	2.62E-07
ENSMMUG00000061481	inosine triphosphatase [Source:NCBI gene;Acc:717257]	0.603989098	9.15E-09	8.61E-08
ENSMMUG00000063520	DDR GK domain containing 1 [Source:NCBI gene;Acc:717226]	0.543247925	0.003263154	0.010235316
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	1.891199285	1.66E-15	3.71E-14

ENSMMUG00000043281	U-box domain containing 5 [Source:NCBI gene;Acc:717166]	1.696530399	0.004592657	0.01382084
ENSMMUG00000002982	FAST kinase domains 5 [Source:NCBI gene;Acc:100498658]	0.852136878	3.92E-06	2.38E-05
ENSMMUG000000039757	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.843745646	0.002063708	0.006842118
ENSMMUG000000051923	arginine vasopressin [Source:NCBI gene;Acc:717101]	1.939786456	0.017040069	0.042650501
ENSMMUG000000010678	oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]	1.885616114	1.82E-06	1.18E-05
ENSMMUG000000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	2.447512722	3.18E-11	4.29E-10
ENSMMUG000000005878	protein tyrosine phosphatase receptor type A [Source:VGNC Symbol;Acc:VGNC:76610]	0.634414882	2.01E-06	1.29E-05
		-		
ENSMMUG000000005204	VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]	1.901926502	3.42E-06	2.09E-05
		-		
ENSMMUG000000005200	PC-esterase domain containing 1A [Source:VGNC Symbol;Acc:VGNC:75622]	3.389579789	0.001352977	0.00471444
		-		
ENSMMUG000000021332	carboxypeptidase X, M14 family member 1 [Source:VGNC Symbol;Acc:VGNC:71413]	2.520230022	0.013281769	0.034519563
		-		
ENSMMUG000000021331	EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]	3.080033255	7.11E-07	4.95E-06
		-		
ENSMMUG000000061433		1.573110471	2.54E-09	2.61E-08
		-		
ENSMMUG000000013888	NOP56 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75181]	1.446620598	0.000273963	0.001131087
		-		
ENSMMUG000000010050	small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]	1.869390981	3.84E-05	0.000190407
		-		
ENSMMUG000000063469	transglutaminase 6 [Source:NCBI gene;Acc:100430348]	2.710635347	0.00694933	0.019758161
		-		
ENSMMUG000000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	1.976449053	3.25E-08	2.81E-07
		-		
ENSMMUG000000015994	NSFL1 cofactor [Source:VGNC Symbol;Acc:VGNC:75407]	2.477435517	0.00901337	0.024758277
		-		
ENSMMUG000000018165	syndecan binding protein 2 [Source:VGNC Symbol;Acc:VGNC:77017]	2.564781003	9.50E-05	0.000435786
		-		
ENSMMUG000000004711	transmembrane protein 74B [Source:VGNC Symbol;Acc:VGNC:78990]	2.032966533	0.001616503	0.005503383
		-		
ENSMMUG000000004709	proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]	1.713790917	0.000197376	0.000842086
		-		
ENSMMUG000000047879	family with sequence similarity 110 member A [Source:NCBI gene;Acc:717055]	1.900966628	0.000133614	0.000592375
ENSMMUG000000021670	solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]	-1.46211251	7.06E-09	6.79E-08
		-		
ENSMMUG000000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	3.344211317	3.84E-29	3.49E-27
		-		
ENSMMUG000000031224	casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]	1.217811963	1.23E-08	1.14E-07
ENSMMUG000000004461	TBC1 domain family member 20 [Source:VGNC Symbol;Acc:VGNC:78132]	-0.67227849	6.99E-06	4.05E-05
ENSMMUG000000026836	Y RNA [Source:RFAM;Acc:RF00019]	-1.49076019	0.00011019	0.00049775
		-		
ENSMMUG000000012601	RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]	0.972191281	1.11E-07	8.87E-07
		-		
ENSMMUG000000038935	zinc finger CCHC-type containing 3 [Source:NCBI gene;Acc:714477]	1.748372238	1.78E-05	9.56E-05
		-		
ENSMMUG000000017286	chromosome 10 C20orf96 homolog [Source:VGNC Symbol;Acc:VGNC:70324]	1.221739754	0.000377824	0.001515179
		-		
ENSMMUG000000050398	defensin beta 127 [Source:NCBI gene;Acc:714155]	1.674730564	0.018195753	0.045063964
		-		
ENSMMUG000000061092	defensin beta 125 [Source:HGNC Symbol;Acc:HGNC:18105]	0.564370367	0.002742634	0.008779034
ENSMMUG000000046141	defensin beta 123 [Source:NCBI gene;Acc:619504]	0.522491068	0.012843662	0.033551437
ENSMMUG000000005116	defensin beta 124 [Source:VGNC Symbol;Acc:VGNC:71655]	0.476580701	0.017269178	0.043085786

ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	1.133208764	7.46E-10	8.37E-09
ENSMMUG00000005119	histocompatibility minor 13 [Source:VGNC Symbol;Acc:VGNC:81418]	1.942341761	0.000465231	0.001823785
ENSMMUG000000051112	p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]	2.046508677	7.44E-10	8.34E-09
ENSMMUG000000061404	XK related 7 [Source:NCBI gene;Acc:715770]	3.117261879	0.007263049	0.020496864
ENSMMUG000000031238	CCM2 like scaffold protein [Source:NCBI gene;Acc:107000439]	-2.71142588	0.001515255	0.005202918
ENSMMUG00000000117	HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]	1.846936732	3.50E-08	3.00E-07
ENSMMUG000000020671	BPI fold containing family B member 3 [Source:VGNC Symbol;Acc:VGNC:70320]	-0.52996083	0.000110308	0.000498134
ENSMMUG000000020676	BPI fold containing family B member 4 [Source:VGNC Symbol;Acc:VGNC:70321]	0.581811541	0.000439925	0.001732365
ENSMMUG000000012912	itchy E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:73589]	0.371702778	0.000348795	0.001406876
ENSMMUG000000055449	tumor protein p53 inducible nuclear protein 2 [Source:NCBI gene;Acc:707113]	-2.74754391	0.001687908	0.005726761
ENSMMUG000000017931	gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]	1.678271036	5.79E-05	0.000277212
ENSMMUG000000017932	acyl-CoA synthetase short chain family member 2 [Source:VGNC Symbol;Acc:VGNC:69410]	1.835935653	0.00543428	0.015942705
ENSMMUG000000017940	glutathione synthetase [Source:VGNC Symbol;Acc:VGNC:73301]	1.607405455	0.002071073	0.006863466
ENSMMUG00000000227	myosin heavy chain 7B [Source:VGNC Symbol;Acc:VGNC:74965]	1.741884152	0.003432534	0.010676276
ENSMMUG00000000229	transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]	2.308307408	7.76E-06	4.44E-05
ENSMMUG000000057979	growth differentiation factor 5 [Source:NCBI gene;Acc:705432]	0.830851144	1.24E-10	1.54E-09
ENSMMUG000000031274	GDF5 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:33435]	0.604648212	0.009280263	0.025396993
ENSMMUG000000010633	PHD finger protein 20 [Source:VGNC Symbol;Acc:VGNC:75807]	0.423759637	3.42E-05	0.0001724
ENSMMUG000000020690	erythrocyte membrane protein band 4.1 like 1 [Source:VGNC Symbol;Acc:VGNC:72231]	1.173616508	1.82E-14	3.67E-13
ENSMMUG000000020691	AAR2 splicing factor [Source:VGNC Symbol;Acc:VGNC:69412]	0.953800341	0.000154802	0.000674616
ENSMMUG000000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	1.563319632	1.72E-15	3.83E-14
ENSMMUG000000059897	myosin light chain 9 [Source:NCBI gene;Acc:709784]	1.590891989	7.90E-07	5.46E-06
ENSMMUG000000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	1.97892918	4.30E-33	5.90E-31
ENSMMUG000000056945		1.96861836	6.51E-26	4.22E-24
ENSMMUG000000008200	Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]	2.008712239	3.19E-09	3.24E-08
ENSMMUG000000014380	maestro heat like repeat family member 8 [Source:VGNC Symbol;Acc:VGNC:74774]	0.558418899	0.007343414	0.020684298
ENSMMUG000000010363	ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]	1.611832659	1.93E-08	1.74E-07
ENSMMUG000000031295	growth hormone releasing hormone [Source:VGNC Symbol;Acc:VGNC:73049]	0.59153804	0.012126472	0.031948051
ENSMMUG000000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	1.975658386	1.20E-14	2.47E-13
ENSMMUG000000049410	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.488411671	0.003665392	0.011307649
ENSMMUG000000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	-1.97905914	6.45E-21	2.52E-19
ENSMMUG000000020172	KIAA1755 [Source:VGNC Symbol;Acc:VGNC:73942]	1.068786519	1.23E-08	1.13E-07
ENSMMUG000000020173	bactericidal permeability increasing protein [Source:VGNC Symbol;Acc:VGNC:70277]	0.897555387	3.17E-09	3.23E-08
ENSMMUG000000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	2.941384595	6.27E-40	1.69E-37
ENSMMUG000000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	3.492636077	1.56E-33	2.21E-31
ENSMMUG000000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	2.695638622	6.38E-24	3.47E-22
ENSMMUG000000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	3.094396381	2.41E-35	4.11E-33
ENSMMUG000000002810	TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]	1.901952415	7.91E-18	2.24E-16
ENSMMUG000000022865	junctionophilin 2 [Source:NCBI gene;Acc:694158]	2.389118333	0.000114464	0.000514394

ENSMMUG00000045256	cellular communication network factor 5 [Source:NCBI gene;Acc:717872]	0.89315192	0.019446028	0.047690523
ENSMMUG00000013212	serine/threonine kinase 4 [Source:VGNC Symbol;Acc:VGNC:81588]	0.629512328	0.003779753	0.011622172
ENSMMUG000000063049		0.204553776	0.006759138	0.019280249
ENSMMUG00000003402	matrilin 4 [Source:NCBI gene;Acc:717652]	2.443546768	0.009276456	0.025391259
		-		
ENSMMUG00000003409	dysbindin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82133]	2.140270425	0.016417975	0.041331053
ENSMMUG000000039638	serine peptidase inhibitor, Kunitz type 3 [Source:NCBI gene;Acc:100423908]	0.449850776	0.001317377	0.004604456
ENSMMUG000000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	1.587765475	1.33E-11	1.87E-10
ENSMMUG000000042855	zinc finger SWIM-type containing 1 [Source:NCBI gene;Acc:717180]	1.375652192	3.28E-05	0.000166053
ENSMMUG000000009957	spermatogenesis associated 25 [Source:VGNC Symbol;Acc:VGNC:77928]	2.324846106	0.000148005	0.000648808
ENSMMUG000000058326	neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]	2.121886658	0.000598012	0.002275147
ENSMMUG000000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	1.819454044	2.35E-16	5.68E-15
		-		
ENSMMUG000000013702	zinc finger protein 335 [Source:VGNC Symbol;Acc:VGNC:78986]	1.433320916	0.009458211	0.025812525
ENSMMUG000000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	2.788575497	1.00E-09	1.10E-08
		-		
ENSMMUG000000004479	cadherin 22 [Source:VGNC Symbol;Acc:VGNC:70940]	0.890579882	0.004301623	0.013040284
		-		
ENSMMUG000000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]	2.089875365	1.12E-19	3.74E-18
		-		
ENSMMUG000000065008		2.217935125	4.80E-06	2.87E-05
ENSMMUG000000015710	zinc finger MYND-type containing 8 [Source:NCBI gene;Acc:716058]	0.476558339	9.62E-05	0.000440701
		-		
ENSMMUG000000051667		2.313058989	0.019388746	0.047565773
		-		
ENSMMUG000000012020	nuclear receptor coactivator 3 [Source:VGNC Symbol;Acc:VGNC:75147]	0.574893033	0.000582247	0.002223151
		-		
ENSMMUG000000012029	sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]	1.543551521	9.08E-10	1.00E-08
ENSMMUG000000060780		1.00222491	1.12E-16	2.79E-15
		-		
ENSMMUG000000038447		0.749143471	0.001495766	0.005146683
		-		
ENSMMUG000000057808		0.866977703	0.001140283	0.004053307
		-		
ENSMMUG000000058754		3.369686473	0.001422847	0.004924345
ENSMMUG000000019635	ADP ribosylation factor guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:69836]	0.32236946	0.008277976	0.023023703
		-		
ENSMMUG000000023621	DEAD-box helicase 27 [Source:NCBI gene;Acc:703852]	3.246307687	0.000555025	0.002133036
ENSMMUG000000002124	beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]	2.214521214	8.82E-17	2.22E-15
ENSMMUG000000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	2.00241943	5.83E-42	2.01E-39
ENSMMUG000000028471	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	2.244628617	6.16E-11	8.02E-10
ENSMMUG000000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	2.304777897	3.03E-25	1.83E-23
ENSMMUG000000000757	ring finger protein 114 [Source:VGNC Symbol;Acc:VGNC:76725]	1.882771235	4.15E-07	3.00E-06
ENSMMUG000000065129		2.572741579	6.66E-06	3.87E-05
ENSMMUG000000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	2.765412229	2.39E-42	8.87E-40
ENSMMUG000000062321		-0.5815813	0.002109648	0.006972606
		-		
ENSMMUG000000002761	activity dependent neuroprotector homeobox [Source:VGNC Symbol;Acc:VGNC:69614]	0.622601891	0.000192225	0.000822915
		-		
ENSMMUG000000002759	dolichyl-phosphate mannosyltransferase subunit 1, catalytic [Source:VGNC Symbol;Acc:VGNC:71975]	1.464218773	0.007090686	0.020098408
		-		
ENSMMUG000000000918	ATPase phospholipid transporting 9A (putative) [Source:VGNC Symbol;Acc:VGNC:84529]	1.411846888	0.009487335	0.025866337
		-		
ENSMMUG000000062664		1.395910918	0.000165606	0.000717481

ENSMMUG00000018846	ZFP64 zinc finger protein [Source:VGNC Symbol;Acc:VGNC:78994]	0.324446118	0.001370294	0.004769177
ENSMMUG00000050197		-1.67261963	0.000984038	0.003550678
ENSMMUG00000013035	teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]	1.755838382	5.30E-08	4.45E-07
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	2.093374106	5.98E-16	1.39E-14
ENSMMUG00000057302		1.973812351	5.58E-05	0.000268338
ENSMMUG00000052326	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	4.357055263	0.000416269	0.00165149
ENSMMUG00000000252	ribonucleic acid export 1 [Source:VGNC Symbol;Acc:VGNC:82216]	0.495927916	0.00770659	0.021616934
ENSMMUG00000031391	RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]	3.496496816	6.65E-23	3.26E-21
ENSMMUG00000022586	phosphoenolpyruvate carboxykinase 1 [Source:VGNC Symbol;Acc:VGNC:75779]	3.745766503	0.002801815	0.008943376
ENSMMUG00000022589	prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]	1.237514356	1.52E-06	9.98E-06
ENSMMUG00000013371	exportin 4 [Source:VGNC Symbol;Acc:VGNC:79091]	0.312446689	0.012112858	0.031923527
ENSMMUG00000004560	crystallin lambda 1 [Source:VGNC Symbol;Acc:VGNC:71433]	0.828258171	1.49E-05	8.15E-05
ENSMMUG00000052705	gap junction protein alpha 3 [Source:NCBI gene;Acc:704432]	2.570758214	0.011551384	0.030656233
ENSMMUG00000020262	paraspeckle component 1 [Source:VGNC Symbol;Acc:VGNC:76293]	0.628526313	0.013672227	0.035410256
ENSMMUG00000016475	M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]	1.105291138	1.36E-10	1.69E-09
ENSMMUG00000007373	zinc finger DHHC-type palmitoyltransferase 20 [Source:VGNC Symbol;Acc:VGNC:79277]	0.470422633	0.020265743	0.049414826
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	1.308781617	2.51E-07	1.89E-06
ENSMMUG00000014610	ring finger protein 17 [Source:NCBI gene;Acc:708198]	0.738931121	9.14E-06	5.17E-05
ENSMMUG00000008520	ATPase phospholipid transporting 8A2 [Source:VGNC Symbol;Acc:VGNC:70062]	0.766384794	3.39E-06	2.07E-05
ENSMMUG00000057852		-1.11228769	5.21E-07	3.71E-06
ENSMMUG00000005055	WASP family member 3 [Source:VGNC Symbol;Acc:VGNC:78782]	1.499989431	0.019761641	0.048344629
ENSMMUG00000009030	mitochondrial translational initiation factor 3 [Source:VGNC Symbol;Acc:VGNC:75040]	0.752231943	2.41E-05	0.0001257
ENSMMUG00000062551		0.791318628	4.19E-05	0.000206384
ENSMMUG00000058786	ligand of numb-protein X 2 [Source:NCBI gene;Acc:710660]	0.824659197	8.71E-05	0.000403074
ENSMMUG00000064615	pancreatic and duodenal homeobox 1 [Source:NCBI gene;Acc:710936]	1.470561514	0.001396431	0.004845361
ENSMMUG00000052070	caudal type homeobox 2 [Source:NCBI gene;Acc:711094]	1.289245413	2.23E-05	0.000117393
ENSMMUG00000016138	ureidoimidazoline (2-oxo-4-hydroxy-4-carboxy-5-) decarboxylase [Source:NCBI gene;Acc:721710]	1.366414192	0.002270922	0.007416378
ENSMMUG00000021538	fms related receptor tyrosine kinase 1 [Source:VGNC Symbol;Acc:VGNC:72678]	0.444068167	0.002552597	0.008232931
ENSMMUG00000063649		0.509971062	0.017623521	0.043837103
ENSMMUG00000003771	ubiquitin like 3 [Source:VGNC Symbol;Acc:VGNC:78701]	0.854115719	0.009123624	0.02500986
ENSMMUG00000005572	arachidonate 5-lipoxygenase activating protein [Source:VGNC Symbol;Acc:VGNC:69799]	-0.73516332	0.006260931	0.018043063
ENSMMUG00000013707	heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]	1.283713452	7.30E-13	1.23E-11

ENSMMUG00000013713	beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]	3.399763905	9.02E-31	9.22E-29
ENSMMUG00000038997	zygote arrest 1 like [Source:NCBI gene;Acc:100427970]	2.452733105	0.000632756	0.002396263
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	2.090104946	3.94E-24	2.16E-22
ENSMMUG000000055811		2.471449178	2.93E-20	1.06E-18
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	2.111298357	2.09E-28	1.79E-26
ENSMMUG00000025050	Y RNA [Source:RFAM;Acc:RF00019]	2.654591911	1.18E-07	9.45E-07
		-		
ENSMMUG000000051911		1.128227516	2.03E-07	1.56E-06
ENSMMUG000000058110		1.418011667	0.000468221	0.001832936
ENSMMUG00000017052	StAR related lipid transfer domain containing 13 [Source:VGNC Symbol;Acc:VGNC:77962]	-0.4839231	4.44E-07	3.20E-06
		-		
ENSMMUG000000055864		1.761441145	0.001476136	0.005083859
ENSMMUG000000054254		-2.14524348	0.007791721	0.021818585
		-		
ENSMMUG00000019831	neurobeachin [Source:NCBI gene;Acc:714386]	2.362731815	9.39E-11	1.19E-09
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	-2.35894492	7.88E-12	1.14E-10
ENSMMUG000000055861	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-3.09934654	0.018022598	0.044709879
		-		
ENSMMUG000000060579		2.216386604	0.000164134	0.000712142
		-		
ENSMMUG000000001172	spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]	2.161251516	3.13E-05	0.000158967
ENSMMUG00000003585	ALG5 dolichyl-phosphate beta-glucosyltransferase [Source:VGNC Symbol;Acc:VGNC:69647]	0.966261523	4.32E-06	2.60E-05
ENSMMUG00000003590	SPT20 homolog, SAGA complex component [Source:VGNC Symbol;Acc:VGNC:78182]	0.785674072	0.019523923	0.047841999
		-		
ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	1.255174957	3.08E-14	6.03E-13
		-		
ENSMMUG000000030786	transient receptor potential cation channel subfamily C member 4 [Source:NCBI gene;Acc:695636]	0.416222695	0.001537331	0.005267704
		-		
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	1.454613052	3.49E-10	4.07E-09
		-		
ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	1.096086349	5.65E-12	8.41E-11
		-		
ENSMMUG000000055317		1.066451872	0.000581241	0.002220456
		-		
ENSMMUG000000052676		1.604622308	1.42E-23	7.61E-22
		-		
ENSMMUG000000050501		1.410447785	0.005106385	0.015109275
ENSMMUG00000001899	mitochondrial ribosomal protein S31 [Source:VGNC Symbol;Acc:VGNC:74777]	1.352737719	0.012046478	0.03178247
ENSMMUG00000007880	E74 like ETS transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:72205]	0.900376247	0.020434261	0.049727615
		-		
ENSMMUG00000011590	N-alpha-acetyltransferase 16, NatA auxiliary subunit [Source:NCBI gene;Acc:698843]	0.441304236	0.000876386	0.003189401
		-		
ENSMMUG00000011593	regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]	0.738690477	0.002117822	0.006988717
ENSMMUG00000011594	von Willebrand factor A domain containing 8 [Source:VGNC Symbol;Acc:VGNC:79773]	0.462742594	3.01E-07	2.22E-06
ENSMMUG000000055161		-2.5582281	2.04E-05	0.000108355
		-		
ENSMMUG00000023076	diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]	1.942575113	1.10E-10	1.39E-09
		-		
ENSMMUG000000055887		1.146800995	0.001057858	0.003783895
		-		
ENSMMUG00000023083	A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]	1.935031256	7.05E-11	9.11E-10
		-		
ENSMMUG000000054971		1.878640597	0.003704579	0.011409948
		-		
ENSMMUG00000017876	TNF superfamily member 11 [Source:NCBI gene;Acc:699955]	1.763523446	0.018939314	0.046629699

ENSMMUG00000014926	epithelial stromal interaction 1 [Source:VGNC Symbol;Acc:VGNC:72053]	0.787148659	0.000493639	0.001922445
ENSMMUG00000050436		3.089389153	0.013732508	0.035543734
ENSMMUG00000012636	potassium channel tetramerization domain containing 4 [Source:VGNC Symbol;Acc:VGNC:73892]	1.456115379	8.35E-06	4.76E-05
ENSMMUG00000011986	chibby family member 2 [Source:VGNC Symbol;Acc:VGNC:78029]	0.958734881	0.001332319	0.004651198
ENSMMUG00000017025	zinc finger CCCH-type containing 13 [Source:VGNC Symbol;Acc:VGNC:79248]	0.718731269	2.62E-06	1.65E-05
ENSMMUG00000017033	lymphocyte cytosolic protein 1 [Source:VGNC Symbol;Acc:VGNC:74242]	0.520189701	0.00055583	0.002134928
ENSMMUG00000016293	leucine rich repeats and calponin homology domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74317]	0.398582935	9.85E-06	5.54E-05
ENSMMUG00000065094		1.256688204	0.003561591	0.011031409
ENSMMUG00000059778		2.639453736	2.54E-11	3.44E-10
ENSMMUG00000063377	cysteinyl leukotriene receptor 2 [Source:NCBI gene;Acc:705450]	1.592082293	1.86E-05	9.97E-05
ENSMMUG00000010898	tripartite motif containing 13 [Source:VGNC Symbol;Acc:VGNC:79972]	0.660240322	2.70E-07	2.02E-06
ENSMMUG00000056958	mml-mir-7194 [Source:miRBase;Acc:MI0023684]	0.810877118	0.00028007	0.001153092
ENSMMUG00000010899	potassium channel regulator [Source:VGNC Symbol;Acc:VGNC:73859]	1.346741752	0.020338797	0.049552219
ENSMMUG00000062619	transmembrane protein 272 [Source:NCBI gene;Acc:713644]	0.665899229	0.011852703	0.031338133
ENSMMUG00000053191		0.793256781	2.91E-06	1.81E-05
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	1.58141642	3.23E-28	2.72E-26
ENSMMUG00000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	1.467480212	1.16E-20	4.45E-19
ENSMMUG00000053708	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	0.988560091	0.009604942	0.026126428
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	1.526619321	1.37E-25	8.58E-24
ENSMMUG00000016404	chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]	3.236726471	2.29E-09	2.37E-08
ENSMMUG00000002657	olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]	1.839614278	1.43E-08	1.31E-07
ENSMMUG00000053482	protocadherin 20 [Source:NCBI gene;Acc:696607]	0.723734918	0.002873347	0.009152006
ENSMMUG00000055156		1.016451142	0.015705199	0.039769793
ENSMMUG00000002533	progesterone immunomodulatory binding factor 1 [Source:NCBI gene;Acc:694190]	1.222210575	2.85E-06	1.78E-05
ENSMMUG00000064642		1.165337489	3.96E-06	2.40E-05
ENSMMUG00000059178		0.991103465	0.00013572	0.000600006
ENSMMUG00000054675		1.300971098	0.000281342	0.001157042
ENSMMUG00000065060		1.241256435	0.000641242	0.002425306
ENSMMUG00000046375		0.924730848	0.00401547	0.0122757
ENSMMUG00000061846		0.728670092	7.59E-05	0.000354838
ENSMMUG00000059231		-0.54949182	9.69E-07	6.58E-06
ENSMMUG00000056466		0.799802394	3.72E-06	2.26E-05
ENSMMUG00000062938		3.760315965	0.004824945	0.014414573
ENSMMUG00000054625		0.855914291	4.14E-07	2.99E-06
ENSMMUG00000062636	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-2.48040762	0.001938024	0.006476092
ENSMMUG00000009018	60S ribosomal protein L13a-like [Source:NCBI gene;Acc:698713]	1.505018924	0.00299505	0.009482621

ENSMMUG00000054008		-	3.381900708	0.007092188	0.020098824
ENSMMUG00000060359		-	2.489895143	0.005189571	0.015312642
ENSMMUG00000021817	dopachrome tautomerase [Source:VGNC Symbol;Acc:VGNC:71749]	-	0.675955351	0.013088945	0.034072153
ENSMMUG00000054711		-	1.405459504	2.39E-07	1.80E-06
ENSMMUG00000009721	claudin 10 [Source:VGNC Symbol;Acc:VGNC:71243]	-	1.291183717	0.000381164	0.001525306
ENSMMUG00000022744	muscleblind like splicing regulator 2 [Source:VGNC Symbol;Acc:VGNC:74519]	-	0.702638406	1.69E-05	9.13E-05
ENSMMUG00000051235		-	0.898546607	0.002300519	0.007506423
ENSMMUG00000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	-	1.037699771	3.43E-19	1.08E-17
ENSMMUG00000009173	serine/threonine kinase 24 [Source:VGNC Symbol;Acc:VGNC:81583]	-	0.710739856	0.00058194	0.002222553
ENSMMUG00000001402	solute carrier family 15 member 1 [Source:VGNC Symbol;Acc:VGNC:77393]	-	1.773742376	0.005902442	0.017136495
ENSMMUG00000018657	dedicator of cytokinesis 9 [Source:VGNC Symbol;Acc:VGNC:71835]	-	0.888269153	0.008152189	0.022712186
ENSMMUG00000012332	UBA domain containing 2 [Source:NCBI gene;Acc:703484]	-	1.336144133	8.99E-22	3.95E-20
ENSMMUG00000060781	G protein-coupled receptor 18 [Source:NCBI gene;Acc:698714]	-	1.304911018	8.53E-07	5.86E-06
ENSMMUG00000012338	G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]	-	1.228829495	6.00E-12	8.87E-11
ENSMMUG00000019556	transmembrane 9 superfamily member 2 [Source:VGNC Symbol;Acc:VGNC:78568]	-	0.714819897	2.35E-15	5.15E-14
ENSMMUG00000003558	citrate lyase beta like [Source:VGNC Symbol;Acc:VGNC:71202]	-	1.739412069	0.010383037	0.027946798
ENSMMUG00000004493	propionyl-CoA carboxylase subunit alpha [Source:VGNC Symbol;Acc:VGNC:75773]	-	-1.39643491	1.03E-07	8.33E-07
ENSMMUG00000050578		-	1.313379915	0.000597566	0.002274033
ENSMMUG00000061728	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.594370976	0.019228259	0.047203292
ENSMMUG00000002875	fibroblast growth factor 14 [Source:VGNC Symbol;Acc:VGNC:72645]	-	3.083620482	0.017200631	0.042943662
ENSMMUG00000052642	protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]	-	2.114638157	8.86E-06	5.03E-05
ENSMMUG00000000350	basic, immunoglobulin-like variable motif containing [Source:NCBI gene;Acc:100426213]	-	-1.19971456	1.46E-06	9.64E-06
ENSMMUG00000000353	putative methyltransferase-like protein 21E pseudogene [Source:NCBI gene;Acc:707949]	-	1.076609916	1.93E-05	0.000103103
ENSMMUG00000053838		-	0.338575428	0.014201451	0.036500436
ENSMMUG00000054803		-	1.017803249	0.003071427	0.00968515
ENSMMUG00000022282	collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]	-	4.473476253	8.00E-08	6.53E-07
ENSMMUG00000022818	inhibitor of growth family member 1 [Source:VGNC Symbol;Acc:VGNC:73742]	-	3.729647666	3.32E-05	0.000167812
ENSMMUG00000064401		-	2.902010492	0.000366149	0.001470746
ENSMMUG00000018929	ankyrin repeat domain 10 [Source:VGNC Symbol;Acc:VGNC:69646]	-	0.743530879	1.99E-07	1.53E-06
ENSMMUG00000013138	Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]	-	1.147391522	1.40E-08	1.29E-07
ENSMMUG00000056306		-	1.547221067	5.71E-14	1.10E-12
ENSMMUG00000013625	ATPase phospholipid transporting 11A [Source:VGNC Symbol;Acc:VGNC:70064]	-	0.656104645	4.33E-05	0.000212858
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]	-	2.30508896	3.38E-36	6.42E-34
ENSMMUG00000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]	-	2.168721343	2.46E-27	1.95E-25

ENSMMUG00000058677		-	2.057788684	0.000685661	0.002572313
ENSMMUG00000016740	defective in cullin neddylation 1 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:71684]	-	0.620568357	3.73E-12	5.70E-11
ENSMMUG00000064494	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.965181203	0.008446531	0.023417845
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]	-	1.579269178	4.25E-11	5.65E-10
ENSMMUG000000051400		-	0.446084709	0.001138307	0.004047252
ENSMMUG00000050639	transmembrane protein 255B [Source:NCBI gene;Acc:715939]	-	0.427400783	0.02042962	0.049727615
ENSMMUG00000054800	chromosome 17 C13orf46 homolog [Source:NCBI gene;Acc:106994405]	-	0.389379692	0.011835918	0.031299335
ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]	-	0.716114916	3.00E-06	1.86E-05
ENSMMUG00000038897	rabphilin 3A like (without C2 domains) [Source:NCBI gene;Acc:106993852]	-	2.197140309	0.002531089	0.008172449
ENSMMUG00000003042	VPS53 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:79522]	-	1.069172256	0.000627831	0.00237883
ENSMMUG00000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]	-	1.502312006	6.82E-08	5.64E-07
ENSMMUG00000030401	gem nuclear organelle associated protein 4 [Source:VGNC Symbol;Acc:VGNC:72723]	-	0.978654586	6.81E-05	0.000321272
ENSMMUG00000050361		-	0.672466148	0.014504181	0.037188279
ENSMMUG00000011417	glyoxalase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72939]	-	0.705252849	0.000242431	0.001015035
ENSMMUG00000008130	ABR activator of RhoGEF and GTPase [Source:VGNC Symbol;Acc:VGNC:69589]	-	0.729793675	3.26E-08	2.82E-07
ENSMMUG00000002371	myosin IC [Source:VGNC Symbol;Acc:VGNC:75112]	-	0.87384153	8.02E-07	5.54E-06
ENSMMUG00000055241		-	0.537954486	0.000366057	0.001470746
ENSMMUG00000040268	phosphatidylinositol transfer protein alpha [Source:NCBI gene;Acc:721228]	-	1.037433246	9.71E-06	5.46E-05
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	-	1.889802646	1.44E-16	3.56E-15
ENSMMUG00000039266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.022126802	2.38E-07	1.80E-06
ENSMMUG00000055528		-	1.593540767	0.001083276	0.003868286
ENSMMUG00000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]	-	2.197144579	1.74E-15	3.87E-14
ENSMMUG00000002377	Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]	-	2.211240079	2.49E-09	2.56E-08
ENSMMUG00000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]	-	1.338298736	9.24E-11	1.17E-09
ENSMMUG00000002382	serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]	-	1.711546326	5.98E-21	2.36E-19
ENSMMUG00000048710	HIC ZBTB transcriptional repressor 1 [Source:NCBI gene;Acc:721284]	-	1.393005049	0.004959124	0.014758067
ENSMMUG00000053298		-	0.714806954	4.73E-07	3.39E-06
ENSMMUG00000020524	platelet activating factor acetylhydrolase 1b regulatory subunit 1 [Source:VGNC Symbol;Acc:VGNC:75747]	-	0.464856446	0.008462705	0.023445154
ENSMMUG00000062095		-	0.560149414	0.003028378	0.009563638
ENSMMUG00000022989	RAP1 GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:76561]	-	0.891227065	0.00027814	0.0011461
ENSMMUG00000061370		-	2.167356968	0.000467903	0.001832807
ENSMMUG00000030389		-	1.463323723	0.000443917	0.001745767
ENSMMUG00000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]	-	1.237390774	2.45E-09	2.53E-08
ENSMMUG00000042407		-	1.18738086	0.003401722	0.010595995
ENSMMUG00000055048		-	1.270438342	1.70E-13	3.06E-12
ENSMMUG00000008556	integrin subunit alpha E [Source:NCBI gene;Acc:721483]	-	0.433700911	0.000426418	0.001686792
ENSMMUG00000063482		-	0.785121504	0.018510163	0.045712858
ENSMMUG00000057632		-	3.498498779	4.82E-21	1.92E-19
ENSMMUG00000019184	ankyrin repeat and FYVE domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69651]	-	0.354335212	0.004128447	0.012584761
ENSMMUG00000058966		-	1.131379438	7.50E-06	4.32E-05
ENSMMUG00000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]	-	0.797020789	2.99E-11	4.04E-10

ENSMMUG00000060937	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.75058748	0.001102531	0.003932307
ENSMMUG00000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]	1.654473001	2.29E-11	3.13E-10
ENSMMUG00000017654	arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]	1.406848648	0.00029142	0.001192867
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]	1.638626894	2.67E-17	7.18E-16
ENSMMUG00000061951		1.834403866	2.00E-06	1.28E-05
ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]	1.33806724	2.46E-11	3.34E-10
ENSMMUG00000009176	calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]	1.027936972	3.32E-06	2.04E-05
ENSMMUG00000011344	solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]	2.592901544	0.000398015	0.001586179
ENSMMUG00000018648	zinc finger protein 594 [Source:NCBI gene;Acc:711492]	0.796573654	0.002177229	0.007148175
ENSMMUG00000058586		2.143043573	6.08E-06	3.56E-05
ENSMMUG00000006594	DEAH-box helicase 33 [Source:VGNC Symbol;Acc:VGNC:71633]	0.317413671	0.016684352	0.041930001
ENSMMUG00000046195	MIS12 kinetochore complex component [Source:NCBI gene;Acc:712202]	-0.83409918	0.000694767	0.002600556
ENSMMUG00000030453	NLR family pyrin domain containing 1 [Source:NCBI gene;Acc:721648]	0.504511429	2.31E-05	0.000120695
ENSMMUG00000010536	discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]	1.274556465	1.88E-14	3.79E-13
ENSMMUG00000052091	dishevelled segment polarity protein 2 [Source:NCBI gene;Acc:714381]	1.224597728	0.000826158	0.003031521
ENSMMUG00000010543	PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]	1.911836208	0.00092608	0.003352151
ENSMMUG00000010547	CTD nuclear envelope phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:71440]	2.248088172	0.017577616	0.043737592
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]	1.4588991	1.60E-26	1.15E-24
ENSMMUG00000009709	transmembrane protein 102 [Source:NCBI gene;Acc:715461]	0.590294508	0.009471829	0.025844936
ENSMMUG00000017690	cholinergic receptor nicotinic beta 1 subunit [Source:VGNC Symbol;Acc:VGNC:71049]	0.464014631	0.001007436	0.003623643
ENSMMUG00000006327	tumor necrosis factor (ligand) superfamily, member 12 [Source:NCBI gene;Acc:100551506]	0.291434265	0.018365259	0.045430657
ENSMMUG00000006332	SUMO specific peptidase 3 [Source:NCBI gene;Acc:715884]	0.459059803	0.016797391	0.042156931
ENSMMUG00000013501	CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]	2.297543724	2.60E-07	1.95E-06
ENSMMUG00000013503	mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]	-1.50307363	4.88E-05	0.000237655
ENSMMUG00000013510	FMR1 autosomal homolog 2 [Source:NCBI gene;Acc:721889]	0.705605284	0.001362621	0.004744698
ENSMMUG00000013513	sex hormone binding globulin [Source:VGNC Symbol;Acc:VGNC:77208]	1.178887005	5.46E-06	3.23E-05
ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]	1.506315955	4.36E-09	4.32E-08
ENSMMUG00000054769	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-1.79398181	0.004784749	0.014311784
ENSMMUG00000008637	WD repeat containing antisense to TP53 [Source:VGNC Symbol;Acc:VGNC:79508]	1.012681483	4.76E-05	0.000232883
ENSMMUG00000048204	ephrin B3 [Source:NCBI gene;Acc:716257]	1.425671936	1.20E-15	2.70E-14
ENSMMUG00000008166	dynein axonemal heavy chain 2 [Source:VGNC Symbol;Acc:VGNC:71940]	0.485306415	0.000123923	0.000552716
ENSMMUG00000008173	lysine demethylase 6B [Source:VGNC Symbol;Acc:VGNC:73923]	1.475047099	0.019029035	0.04678225
ENSMMUG00000063668	cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]	1.113740034	7.45E-05	0.00034886
ENSMMUG00000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]	1.894893699	2.38E-21	9.79E-20
ENSMMUG00000065208		1.647904008	4.32E-08	3.65E-07
ENSMMUG00000020329	arachidonate 12-lipoxygenase, 12R type [Source:NCBI gene;Acc:721936]	-1.29609024	0.000596696	0.002271305
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]	1.851044132	2.22E-40	6.34E-38
ENSMMUG00000021798	period circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:75942]	0.676051652	0.001992349	0.006635198

ENSMMUG00000021938	nudE neurodevelopment protein 1 like 1 [Source:VGNC Symbol;Acc:VGNC:74982]	1.013787827	3.26E-07	2.40E-06
ENSMMUG00000055290	netrin 1 [Source:NCBI gene;Acc:717645]	1.01817913	7.77E-07	5.38E-06
ENSMMUG00000054855	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.969927998	0.005498008	0.01610736
ENSMMUG00000009771	myosin heavy chain 4 [Source:VGNC Symbol;Acc:VGNC:75100]	0.639057065	0.012624594	0.033072378
ENSMMUG00000051001		1.956960934	0.00956337	0.026022895
ENSMMUG00000055729		0.876965294	2.53E-05	0.000131699
ENSMMUG00000060547	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.035505638	1.18E-05	6.55E-05
ENSMMUG00000060042		0.889630898	0.006138916	0.017739698
ENSMMUG00000016723	zinc finger protein 287 [Source:NCBI gene;Acc:695524]	1.842946162	4.54E-05	0.000222568
ENSMMUG00000002523	nuclear receptor corepressor 1 [Source:VGNC Symbol;Acc:VGNC:81479]	0.419580179	0.012941352	0.033768525
ENSMMUG00000059034		0.302201191	0.002714496	0.008698353
ENSMMUG00000050263	TBC1 domain family member 26-like [Source:NCBI gene;Acc:100426631]	0.973804777	0.000842419	0.003082425
ENSMMUG00000013345	folliculin [Source:NCBI gene;Acc:698082]	1.620378078	0.003560281	0.011029657
ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	-1.76903321	0.00018372	0.000789043
ENSMMUG00000038569	5',3'-nucleotidase, mitochondrial [Source:NCBI gene;Acc:698591]	0.831946136	0.000155699	0.000677727
ENSMMUG00000006491	mediator complex subunit 9 [Source:VGNC Symbol;Acc:VGNC:74577]	0.904801924	0.000131294	0.000583309
ENSMMUG00000006493	ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]	0.920783978	2.26E-09	2.35E-08
ENSMMUG00000023375	sterol regulatory element binding transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:77880]	0.533328443	0.018022633	0.044709879
ENSMMUG00000003349	target of myb1 like 2 membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:78617]	1.230240318	0.014862799	0.037963366
ENSMMUG00000002942	dynein regulatory complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:71906]	1.214954943	0.004177582	0.012713634
ENSMMUG00000005900	GID complex subunit 4 homolog [Source:NCBI gene;Acc:699842]	0.910920604	0.004490166	0.013539885
ENSMMUG00000021409	developmentally regulated GTP binding protein 2 [Source:VGNC Symbol;Acc:VGNC:71993]	1.140701616	0.000224631	0.000947193
ENSMMUG00000018344	myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]	0.793165641	3.33E-05	0.000168126
ENSMMUG00000056257		1.156949726	9.04E-07	6.18E-06
ENSMMUG00000053675		1.080177408	6.83E-06	3.96E-05
ENSMMUG00000005323	phosphoribosyl pyrophosphate synthetase associated protein 2 [Source:VGNC Symbol;Acc:VGNC:76430]	0.512165929	5.24E-06	3.10E-05
ENSMMUG00000000140	epsin 2 [Source:VGNC Symbol;Acc:VGNC:72070]	0.633017897	0.014907337	0.038064016
ENSMMUG00000008536	mitogen-activated protein kinase 7 [Source:VGNC Symbol;Acc:VGNC:74648]	1.489039656	0.000292729	0.001197566
ENSMMUG00000008538	microfibril associated protein 4 [Source:VGNC Symbol;Acc:VGNC:74710]	1.802598111	0.000278681	0.001148013
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	2.681609625	3.39E-17	8.97E-16
ENSMMUG00000051286		1.836243591	1.62E-14	3.30E-13
ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	1.16375438	0.001731741	0.005858056
ENSMMUG00000018579	sperm antigen with calponin homology and coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:78021]	0.55579288	5.21E-05	0.000251942
ENSMMUG00000024170	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.720672954	0.001507787	0.005183235
ENSMMUG00000050178		0.540515764	5.84E-05	0.00027942

ENSMMUG00000052714		-	1.509022311	0.01478735	0.037809724
ENSMMUG00000060502		-	1.396711933	1.11E-07	8.87E-07
ENSMMUG00000061335		-	1.792863514	1.13E-10	1.42E-09
ENSMMUG00000054233		-	0.426489054	1.69E-05	9.12E-05
ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	-	1.737473127	1.67E-17	4.57E-16
ENSMMUG00000054784		-	1.45903865	1.44E-09	1.55E-08
ENSMMUG00000061836		-	1.121674024	3.76E-05	0.000187134
ENSMMUG00000065113		-	1.024635141	6.28E-05	0.000299005
ENSMMUG00000061698		-	0.860388978	7.38E-09	7.07E-08
ENSMMUG00000051341		-	0.721738762	0.003785486	0.011630154
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	-	1.744821	1.82E-17	4.97E-16
ENSMMUG00000063312		-	1.498743448	7.41E-09	7.10E-08
ENSMMUG00000054461	transmembrane protein 97 [Source:NCBI gene;Acc:707879]	-	1.756948429	0.004581231	0.013792053
ENSMMUG00000019145	TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]	-	-1.60688776	1.45E-11	2.03E-10
ENSMMUG00000019146	DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]	-	1.555226972	5.58E-08	4.67E-07
ENSMMUG00000021351	transmembrane protein 199 [Source:VGNC Symbol;Acc:VGNC:79113]	-	1.965155082	0.000112611	0.000507299
ENSMMUG00000019148	vitronectin [Source:NCBI gene;Acc:708499]	-	-1.65687825	8.15E-10	9.05E-09
ENSMMUG00000012240	phosphatidylinositol glycan anchor biosynthesis class S [Source:VGNC Symbol;Acc:VGNC:75800]	-	0.743698113	0.000293176	0.001199063
ENSMMUG00000006018	sperm associated antigen 5 [Source:NCBI gene;Acc:709400]	-	0.945296436	5.12E-05	0.000248351
ENSMMUG00000004708	SPT6 homolog, histone chaperone and transcription elongation factor [Source:VGNC Symbol;Acc:VGNC:78057]	-	0.555608948	0.001793945	0.006053488
ENSMMUG00000004710	protein interacting with cyclin A1 [Source:VGNC Symbol;Acc:VGNC:76336]	-	1.201680387	0.000455933	0.001789796
ENSMMUG00000007293	RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]	-	1.348912768	4.30E-10	4.97E-09
ENSMMUG00000051743	TLC domain containing 1 [Source:NCBI gene;Acc:710391]	-	1.183499756	5.68E-07	4.03E-06
ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]	-	1.488303584	8.46E-09	8.01E-08
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	-	1.754903502	3.05E-16	7.26E-15
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	-	1.778683113	2.47E-15	5.41E-14
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	-	1.791516437	4.15E-17	1.09E-15
ENSMMUG00000009938	myosin XVIII A [Source:VGNC Symbol;Acc:VGNC:75058]	-	0.753448358	5.09E-09	4.98E-08
ENSMMUG00000012856	nuclear FMR1 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75422]	-	2.265152367	3.75E-05	0.000186995
ENSMMUG00000019667	TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]	-	1.77405323	7.60E-09	7.28E-08
ENSMMUG00000057447		-	3.90194158	0.000281885	0.001158636
ENSMMUG00000003866	tumor protein p53 inducible protein 13 [Source:VGNC Symbol;Acc:VGNC:79474]	-	1.511045072	0.011053309	0.029488045
ENSMMUG00000014408	GIT ArfGAP 1 [Source:VGNC Symbol;Acc:VGNC:73053]	-	1.695703422	2.37E-05	0.000123673
ENSMMUG00000014409	ankyrin repeat domain 13B [Source:VGNC Symbol;Acc:VGNC:69708]	-	1.153989216	5.33E-06	3.15E-05
ENSMMUG00000014411	coronin 6 [Source:NCBI gene;Acc:711818]	-	1.316252411	3.32E-10	3.89E-09
ENSMMUG00000014413	slingshot protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:78018]	-	0.980388911	8.76E-14	1.64E-12
ENSMMUG00000056200	transmembrane and immunoglobulin domain containing 1 [Source:NCBI gene;Acc:712350]	-	0.740996438	0.007353993	0.020710162
ENSMMUG00000023698	golgi SNAP receptor complex member 1 [Source:VGNC Symbol;Acc:VGNC:73110]	-	0.669331233	0.000627014	0.002376946
ENSMMUG00000059292		-	1.472213204	7.61E-25	4.52E-23
ENSMMUG00000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	-	2.311634847	2.83E-15	6.15E-14

ENSMMUG00000011413	acid sensing ion channel subunit 2 [Source:VGNC Symbol;Acc:VGNC:70241]	0.865785354	0.015659597	0.039663847
ENSMMUG00000002324		1.339499947	3.89E-13	6.74E-12
		-		
ENSMMUG00000000288	C-C motif chemokine ligand 2 [Source:VGNC Symbol;Acc:VGNC:70698]	1.372326291	1.16E-05	6.47E-05
		-		
ENSMMUG000000009782	C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]	0.843932016	0.012755744	0.033362906
ENSMMUG00000006399	chaperonin containing TCP1 subunit 6B [Source:VGNC Symbol;Acc:VGNC:70748]	0.493711525	2.52E-09	2.60E-08
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	2.929055347	9.35E-13	1.55E-11
		-		
ENSMMUG000000005170	unc-45 myosin chaperone B [Source:VGNC Symbol;Acc:VGNC:78954]	1.288960161	1.52E-06	9.99E-06
ENSMMUG000000037555	schlafen family member 11 [Source:NCBI gene;Acc:715511]	1.762141867	0.001733943	0.005864168
		-		
ENSMMUG000000031736		1.755331406	0.014009853	0.036114395
		-		
ENSMMUG000000026432	small nucleolar RNA, C/D box 7 [Source:HGNC Symbol;Acc:HGNC:32704]	2.415399363	0.007615272	0.02139316
		-		
ENSMMUG00000006048	adaptor related protein complex 2 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69964]	0.845571862	4.14E-06	2.50E-05
		-		
ENSMMUG000000013142	growth arrest specific 2 like 2 [Source:VGNC Symbol;Acc:VGNC:72776]	1.002711568	0.006445264	0.018505957
		-		
ENSMMUG000000022229	matrix metalloproteinase 28 [Source:VGNC Symbol;Acc:VGNC:74755]	1.080091658	0.01017939	0.027477313
		-		
ENSMMUG000000022233	HEAT repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:73243]	1.234680785	0.001997177	0.006649784
		-		
ENSMMUG000000054829		0.449126418	0.017568755	0.04372288
		-		
ENSMMUG000000050758		1.529832617	0.002358377	0.007681688
ENSMMUG000000054472		1.023759539	0.000123677	0.000551952
		-		
ENSMMUG000000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	1.691826548	2.44E-17	6.59E-16
		-		
ENSMMUG000000058233	C-C motif chemokine 3-like [Source:NCBI gene;Acc:100426537]	2.604022769	4.89E-06	2.92E-05
		-		
ENSMMUG000000061594		2.442083407	8.34E-07	5.74E-06
		-		
ENSMMUG000000052786		3.265371653	8.53E-08	6.94E-07
		-		
ENSMMUG00000000620	dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]	1.959392284	7.77E-06	4.45E-05
		-		
ENSMMUG00000000618	gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]	1.693472498	2.29E-10	2.76E-09
		-		
ENSMMUG000000051190	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.397992469	9.61E-06	5.41E-05
		-		
ENSMMUG000000007920	myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]	1.637771945	3.35E-07	2.46E-06
		-		
ENSMMUG000000007923	phosphatidylinositol glycan anchor biosynthesis class W [Source:VGNC Symbol;Acc:VGNC:75850]	1.326531923	0.000229572	0.000967201
		-		
ENSMMUG000000007918	zinc finger HIT-type containing 3 [Source:NCBI gene;Acc:574277]	1.838435063	0.000601901	0.002289354
		-		
ENSMMUG000000007917	carbonic anhydrase 4 [Source:NCBI gene;Acc:716919]	0.854518958	0.000828824	0.003039433
		-		
ENSMMUG000000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	1.529420237	2.93E-12	4.56E-11
		-		
ENSMMUG000000052977	putative protein FAM106C [Source:NCBI gene;Acc:106994084]	1.349598294	9.95E-08	8.03E-07
		-		
ENSMMUG000000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]	1.282078294	3.93E-10	4.56E-09

ENSMMUG0000008423	septin 4 [Source:NCBI gene;Acc:714724]	0.902121136	8.68E-15	1.83E-13
ENSMMUG0000002264	lactoperoxidase [Source:VGNC Symbol;Acc:VGNC:74440]	0.44277176	0.002859912	0.00911117
ENSMMUG00000056064	serine and arginine rich splicing factor 1 [Source:NCBI gene;Acc:713958]	0.452444374	0.002664047	0.008549625
ENSMMUG00000004723	vascular endothelial zinc finger 1 [Source:NCBI gene;Acc:713848]	0.353655216	0.003515917	0.010905889
ENSMMUG00000012644	A-kinase anchoring protein 1 [Source:VGNC Symbol;Acc:VGNC:69763]	0.635135303	0.003629139	0.011217201
ENSMMUG00000002269	serine carboxypeptidase 1 [Source:VGNC Symbol;Acc:VGNC:82232]	0.902820323	2.76E-05	0.000142368
ENSMMUG00000005793	ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]	0.940996582	1.38E-05	7.59E-05
ENSMMUG000000059321		2.484038693	0.000342033	0.001383621
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	2.010199748	1.90E-06	1.23E-05
ENSMMUG00000006068	transmembrane protein 100 [Source:VGNC Symbol;Acc:VGNC:79521]	0.690335257	3.50E-08	3.00E-07
ENSMMUG00000022627	HLF transcription factor, PAR bZIP family member [Source:VGNC Symbol;Acc:VGNC:73478]	1.757805754	0.000538469	0.002078472
ENSMMUG000000050544		2.336723267	5.17E-10	5.91E-09
ENSMMUG000000049997		2.128176791	4.26E-12	6.44E-11
ENSMMUG000000056602		2.306122922	4.10E-06	2.48E-05
ENSMMUG00000010550	target of myb1 like 1 membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:78616]	0.414306434	0.01408291	0.036271198
ENSMMUG00000013737	carbonic anhydrase 10 [Source:VGNC Symbol;Acc:VGNC:70486]	1.080620364	0.003710066	0.011422106
ENSMMUG000000062178	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.267963225	0.003642124	0.011247959
ENSMMUG000000051004		0.351989529	0.016418155	0.041331053
ENSMMUG00000001942	mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]	1.802882001	4.59E-12	6.90E-11
ENSMMUG00000001940	NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]	2.127503991	5.43E-17	1.40E-15
ENSMMUG00000022528	sperm associated antigen 9 [Source:VGNC Symbol;Acc:VGNC:77920]	0.426451574	0.00230207	0.00750818
ENSMMUG00000022741	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]	1.775235103	2.31E-23	1.21E-21
ENSMMUG00000010117	LUC7 like 3 pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:74346]	0.830965844	0.017301082	0.043156354
ENSMMUG00000003421	ankyrin repeat domain 40 [Source:VGNC Symbol;Acc:VGNC:69725]	0.927228439	0.009774666	0.02652485
ENSMMUG00000003414	ATP binding cassette subfamily C member 3 [Source:VGNC Symbol;Acc:VGNC:69572]	0.508352625	0.011730969	0.031071669
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	2.277085116	7.71E-34	1.14E-31
ENSMMUG00000017242	MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]	1.466581069	3.27E-05	0.000165583
ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	4.072404397	2.48E-49	1.84E-46
ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	1.478003215	2.56E-07	1.93E-06
ENSMMUG00000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	-1.99569945	2.70E-05	0.000139538
ENSMMUG00000014685	pyruvate dehydrogenase kinase 2 [Source:VGNC Symbol;Acc:VGNC:75933]	-1.89812774	0.017437255	0.043443667
ENSMMUG00000000153	integrin subunit alpha 3 [Source:VGNC Symbol;Acc:VGNC:73777]	1.629105194	0.012066036	0.031828409
ENSMMUG00000015845	beta-1,4-N-acetyl-galactosaminyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70120]	1.464624603	0.00100464	0.00361534
ENSMMUG00000012178	calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]	0.423179222	0.008444532	0.023417845
ENSMMUG00000021087	SNF8 subunit of ESCRT-II [Source:VGNC Symbol;Acc:VGNC:77729]	0.606375356	0.001307684	0.004575967
ENSMMUG00000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	1.727559197	2.70E-25	1.64E-23
ENSMMUG000000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	1.823870881	7.09E-25	4.24E-23

ENSMMUG00000055122		1.025391085	7.81E-09	7.45E-08
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	1.506151594	7.59E-18	2.16E-16
ENSMMUG00000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	1.495736532	3.64E-20	1.30E-18
ENSMMUG00000055324	homeobox B7 [Source:NCBI gene;Acc:697089]	1.538224256	1.09E-13	2.01E-12
ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	1.515450137	1.89E-22	8.94E-21
ENSMMUG00000051420	homeobox B5 [Source:NCBI gene;Acc:696732]	1.585831016	2.42E-12	3.80E-11
ENSMMUG00000045203		1.39165309	3.04E-07	2.24E-06
ENSMMUG00000052130	homeobox B4 [Source:NCBI gene;Acc:106994012]	1.288492612	0.004724155	0.0141557
ENSMMUG00000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]	1.154016937	1.21E-10	1.51E-09
ENSMMUG00000057095		3.320385379	1.20E-06	8.00E-06
ENSMMUG00000050742	src kinase associated phosphoprotein 1 [Source:NCBI gene;Acc:697043]	0.572730123	1.06E-09	1.16E-08
ENSMMUG00000019882	chromobox 1 [Source:NCBI gene;Acc:696673]	0.416064761	0.012346226	0.03246057
		-		
ENSMMUG00000003325	pyridoxamine 5'-phosphate oxidase [Source:VGNC Symbol;Acc:VGNC:76141]	0.937326727	6.47E-08	5.36E-07
ENSMMUG00000004765	Sp2 transcription factor [Source:VGNC Symbol;Acc:VGNC:77845]	1.264440423	6.66E-06	3.87E-05
ENSMMUG00000021486	secernin 2 [Source:NCBI gene;Acc:694571]	1.484102214	1.89E-05	0.00010123
ENSMMUG00000057231	T-box transcription factor 21 [Source:NCBI gene;Acc:694044]	1.400518829	5.38E-09	5.25E-08
		-		
ENSMMUG00000019760	karyopherin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:74203]	0.816954091	0.000216865	0.000917055
		-		
ENSMMUG00000020528	G protein-coupled receptor 179 [Source:VGNC Symbol;Acc:VGNC:73043]	1.550788702	0.007154175	0.020235823
ENSMMUG00000020020	Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]	1.149677772	4.17E-05	0.000205766
ENSMMUG00000007799	LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]	1.213672328	1.80E-05	9.69E-05
ENSMMUG00000050458		0.916159817	0.018140536	0.044972275
ENSMMUG00000056248		2.906158854	2.77E-19	8.85E-18
ENSMMUG00000063779		3.077401381	2.62E-22	1.21E-20
		-		
ENSMMUG00000000289	calcium voltage-gated channel auxiliary subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70509]	0.586433778	0.000718902	0.002675363
		-		
ENSMMUG00000030060	F-box and leucine rich repeat protein 20 [Source:VGNC Symbol;Acc:VGNC:81407]	0.654277056	4.88E-06	2.91E-05
		-		
ENSMMUG00000009132	mediator complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:74724]	0.946221807	0.000648662	0.002448373
		-		
ENSMMUG00000001404	neuronal differentiation 2 [Source:VGNC Symbol;Acc:VGNC:75321]	3.010796929	0.01056766	0.028360188
ENSMMUG00000004587	gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]	2.270441711	0.000133395	0.000591757
ENSMMUG00000057790		2.046251759	0.00600823	0.017409544
ENSMMUG00000058758		2.608003094	8.07E-06	4.61E-05
ENSMMUG00000064026	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.078556276	3.27E-06	2.01E-05
ENSMMUG00000064723	gasdermin A [Source:NCBI gene;Acc:698841]	2.10724872	0.002541633	0.008201134
ENSMMUG00000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	1.221438773	9.90E-10	1.09E-08
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	1.43231528	3.14E-25	1.89E-23
ENSMMUG00000002933	nuclear receptor subfamily 1 group D member 1 [Source:VGNC Symbol;Acc:VGNC:75502]	-0.44132296	0.012418229	0.032623974
ENSMMUG00000045187	CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]	1.255359086	2.04E-14	4.07E-13
ENSMMUG00000015160	Rap guanine nucleotide exchange factor like 1 [Source:VGNC Symbol;Acc:VGNC:76501]	1.116186814	6.35E-09	6.15E-08
ENSMMUG00000056646		1.140139439	1.07E-06	7.26E-06
ENSMMUG00000004750	WAS/WASL interacting protein family member 2 [Source:NCBI gene;Acc:700279]	0.97345498	0.000844836	0.003090509
		-		
ENSMMUG00000008941	DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]	0.853590017	1.24E-09	1.34E-08
ENSMMUG00000009386	tensin 4 [Source:VGNC Symbol;Acc:VGNC:79432]	1.344744597	0.007525031	0.02115969
		-		
ENSMMUG00000001497	keratin 27 [Source:VGNC Symbol;Acc:VGNC:74169]	0.491879752	0.000879921	0.003199909
		-		
ENSMMUG00000043282		0.653641847	0.004250797	0.012909957

ENSMMUG00000018644	keratin 32 [Source:VGNC Symbol;Acc:VGNC:74216]	0.422793835	0.012910325	0.033707766
ENSMMUG00000053216	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	0.655587045	0.006999745	0.019878632
ENSMMUG00000018653	keratin, type I cytoskeletal 19 [Source:NCBI gene;Acc:707129]	0.652632947	0.00713019	0.020179525
ENSMMUG00000013048	junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]	1.089803767	1.91E-05	0.000101887
ENSMMUG00000021753	tetratricopeptide repeat domain 25 [Source:NCBI gene;Acc:708614]	0.685181113	3.15E-06	1.95E-05
ENSMMUG00000016114	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:VGNC Symbol;Acc:VGNC:71279]	0.694384772	1.90E-06	1.22E-05
ENSMMUG00000016118	DnaJ heat shock protein family (Hsp40) member C7 [Source:NCBI gene;Acc:708729]	0.387539	0.0067271	0.019192554
ENSMMUG00000003894	zinc finger protein 385C [Source:NCBI gene;Acc:708928]	0.471919437	0.000538802	0.002079219
ENSMMUG00000049440	chromosome 16 C17orf113 homolog [Source:NCBI gene;Acc:106994045]	0.705342754	5.61E-16	1.31E-14
ENSMMUG00000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	2.268935955	8.97E-32	1.00E-29
ENSMMUG00000052220		0.639264098	7.03E-05	0.000331308
ENSMMUG00000035823	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	0.711691838	0.007005563	0.019891346
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	2.252943727	6.42E-30	6.14E-28
ENSMMUG00000009884	hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]	2.378297447	9.97E-14	1.85E-12
ENSMMUG00000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	2.05342186	1.11E-47	6.84E-45
ENSMMUG00000009887	MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]	2.083903778	9.86E-20	3.34E-18
ENSMMUG00000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	1.987983842	3.77E-24	2.08E-22
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	2.087678792	4.31E-38	9.27E-36
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	1.988651123	1.76E-26	1.25E-24
ENSMMUG00000006086	pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]	1.619780875	8.61E-11	1.09E-09
ENSMMUG00000006090	C-C motif chemokine receptor 10 [Source:VGNC Symbol;Acc:VGNC:82119]	1.937490953	0.000878455	0.003195362
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	2.191689367	9.39E-32	1.04E-29
ENSMMUG00000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	2.131869645	6.24E-36	1.14E-33
ENSMMUG00000056565	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.304595965	0.018133395	0.044962089
ENSMMUG00000058566		1.701169791	1.61E-39	4.12E-37
ENSMMUG00000029971	beclin 1 [Source:VGNC Symbol;Acc:VGNC:70044]	0.573411546	5.47E-05	0.000263559
ENSMMUG00000012685	proteasome activator subunit 3 [Source:VGNC Symbol;Acc:VGNC:76457]	0.422550771	0.000591176	0.002253183
ENSMMUG00000014123	alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]	1.134191389	7.31E-06	4.22E-05
ENSMMUG00000008091	RUN domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77101]	1.028363389	4.87E-05	0.000237302
ENSMMUG00000064920		1.347011964	1.94E-22	9.11E-21
ENSMMUG00000008090	ribosomal protein L27 [Source:NCBI gene;Acc:712352]	1.151087555	0.000279132	0.00114955
ENSMMUG00000015999	interferon induced protein 35 [Source:VGNC Symbol;Acc:VGNC:73564]	1.141005547	8.26E-06	4.71E-05
ENSMMUG00000016001	vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]	1.104623059	4.82E-11	6.34E-10
ENSMMUG00000065269	Rho family GTPase 2 [Source:NCBI gene;Acc:712559]	1.070539482	1.15E-06	7.70E-06
ENSMMUG00000052607		1.339063396	5.67E-37	1.12E-34
ENSMMUG00000012071	DEAH-box helicase 8 [Source:VGNC Symbol;Acc:VGNC:71765]	0.665564806	9.41E-08	7.61E-07
ENSMMUG00000006808	homologous recombination factor with OB-fold [Source:VGNC Symbol;Acc:VGNC:70421]	2.464796249	0.006340922	0.018248763
ENSMMUG00000019923	ataxin 7 like 3 [Source:VGNC Symbol;Acc:VGNC:70128]	0.581548264	0.002057058	0.006821594
ENSMMUG00000017100	solute carrier family 4 member 1 (Diego blood group) [Source:NCBI gene;Acc:100427618]	0.482044525	0.008790797	0.024240893
ENSMMUG00000013983	RUN domain containing 3A [Source:VGNC Symbol;Acc:VGNC:77032]	0.629521156	1.21E-08	1.12E-07
ENSMMUG00000017944	solute carrier family 25 member 39 [Source:VGNC Symbol;Acc:VGNC:77568]	0.495798004	0.000682325	0.002561095
ENSMMUG00000023751	granulin precursor [Source:VGNC Symbol;Acc:VGNC:73293]	0.449188009	0.007802458	0.021844525
ENSMMUG00000041006	family with sequence similarity 171 member A2 [Source:NCBI gene;Acc:712099]	0.552173916	3.07E-06	1.90E-05
ENSMMUG00000012659	integrin subunit alpha 2b [Source:VGNC Symbol;Acc:VGNC:73776]	0.293564039	0.003641862	0.011247959
ENSMMUG00000012658	G-patch domain containing 8 [Source:VGNC Symbol;Acc:VGNC:73026]	0.342702286	0.000113766	0.000511724

ENSMMUG00000029927	ADAM metallopeptidase domain 11 [Source:VGNC Symbol;Acc:VGNC:69466]	-	0.863859999	0.001358005	0.004730847
ENSMMUG00000013115	glial fibrillary acidic protein [Source:VGNC Symbol;Acc:VGNC:72913]	-	0.919447395	0.003894591	0.011940622
ENSMMUG00000062273	dephospho-CoA kinase domain containing [Source:NCBI gene;Acc:715841]	-	1.911933128	2.17E-08	1.94E-07
ENSMMUG00000060665		-	1.103658362	2.34E-05	0.000122495
ENSMMUG00000054246		-	1.700133758	0.001331852	0.004650661
ENSMMUG00000021932	Rho GTPase activating protein 27 [Source:VGNC Symbol;Acc:VGNC:69935]	-	1.228022414	0.005336661	0.015690461
ENSMMUG00000008459	pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]	-	0.849012907	0.001080008	0.003858472
ENSMMUG00000049983		-	1.280720756	0.008698305	0.024021576
ENSMMUG00000057840	leucine-rich repeat-containing protein 37A3 [Source:NCBI gene;Acc:715030]	-	0.806971873	0.004543712	0.013687437
ENSMMUG00000005548	N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]	-	1.020492846	1.90E-12	3.03E-11
ENSMMUG00000057209		-	0.793693975	1.04E-05	5.82E-05
ENSMMUG00000004122	microtubule associated protein tau [Source:NCBI gene;Acc:574327]	-	0.76473035	1.45E-07	1.14E-06
ENSMMUG00000053257	Y RNA [Source:RFAM;Acc:RF00019]	-	1.280660038	1.39E-12	2.26E-11
ENSMMUG00000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]	-	0.952209081	1.02E-14	2.13E-13
ENSMMUG00000010588	EF-hand calcium binding domain 13 [Source:HGNC Symbol;Acc:HGNC:26864]	-	0.763273546	0.000380493	0.001523822
ENSMMUG00000002166	tousled like kinase 2 [Source:VGNC Symbol;Acc:VGNC:78368]	-	3.324959825	0.000153433	0.000669634
ENSMMUG00000002167	mannose receptor C type 2 [Source:VGNC Symbol;Acc:VGNC:74784]	-	2.003968996	0.006833958	0.019459983
ENSMMUG00000002168	membrane associated ring-CH-type finger 10 [Source:VGNC Symbol;Acc:VGNC:74593]	-	1.692900704	0.005523661	0.016175315
ENSMMUG00000015185	endoplasmic reticulum to nucleus signaling 1 [Source:VGNC Symbol;Acc:VGNC:72429]	-	0.412228034	0.000156642	0.000681233
ENSMMUG00000011809	platelet and endothelial cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:75938]	-	0.864212254	5.49E-06	3.24E-05
ENSMMUG00000059400		-	0.732032619	0.007160117	0.020248768
ENSMMUG00000006317	mast cell immunoglobulin like receptor 1 [Source:VGNC Symbol;Acc:VGNC:74843]	-	0.871806635	0.002923764	0.009294625
ENSMMUG00000009463	DEAD-box helicase 5 [Source:VGNC Symbol;Acc:VGNC:71763]	-	0.526683019	2.97E-05	0.000151832
ENSMMUG00000063689		-	0.705310872	0.001418976	0.004913242
ENSMMUG00000009461	SMAD specific E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77727]	-	0.838070594	1.24E-09	1.34E-08
ENSMMUG00000060767		-	3.383221829	1.54E-18	4.65E-17
ENSMMUG00000060015	axin 2 [Source:NCBI gene;Acc:718566]	-	0.378623478	0.003558531	0.011026539
ENSMMUG00000051240		-	0.994767757	0.00033127	0.001343745
ENSMMUG00000018378	protein kinase C alpha [Source:VGNC Symbol;Acc:VGNC:76409]	-	1.401534525	0.005326554	0.015670065
ENSMMUG00000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]	-	3.119937106	5.71E-31	5.92E-29
ENSMMUG00000057157		-	2.829050117	1.72E-20	6.42E-19
ENSMMUG00000054673		-	2.231997477	0.001951269	0.006515945
ENSMMUG00000051322	somatostatin receptor 2 [Source:NCBI gene;Acc:695526]	-	1.145857181	0.002469608	0.007991334
ENSMMUG00000063103		-	0.624429071	0.001428957	0.00494103
ENSMMUG00000001266	component of oligomeric golgi complex 1 [Source:VGNC Symbol;Acc:VGNC:71383]	-	1.391201572	0.000335817	0.00136033

ENSMMUG0000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]	1.162301922	7.64E-14	1.45E-12
ENSMMUG0000001271	cleavage and polyadenylation specific factor 4 like [Source:NCBI gene;Acc:698279]	1.472438062	0.00130331	0.004561739
ENSMMUG00000049948		-		
ENSMMUG00000064463		1.416012441	1.48E-09	1.58E-08
ENSMMUG00000049403		1.482392738	7.43E-06	4.28E-05
ENSMMUG00000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]	0.876046618	4.00E-08	3.40E-07
ENSMMUG00000058592		1.943136602	7.14E-12	1.04E-10
ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]	2.016795163	1.84E-17	4.99E-16
ENSMMUG0000005737	SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]	2.277920851	7.82E-10	8.74E-09
ENSMMUG0000005738	N-acetyltransferase 9 (putative) [Source:NCBI gene;Acc:699085]	2.880651237	3.72E-08	3.17E-07
ENSMMUG0000005744	glutamate ionotropic receptor NMDA type subunit 2C [Source:VGNC Symbol;Acc:VGNC:73284]	4.020316411	0.000112145	0.000505505
ENSMMUG00000023405	otopetrin 3 [Source:VGNC Symbol;Acc:VGNC:75654]	0.50665445	0.017132263	0.042816221
ENSMMUG00000023406	HID1 domain containing [Source:VGNC Symbol;Acc:VGNC:73394]	0.557271032	0.000657276	0.002477104
ENSMMUG00000018031	solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]	0.613521933	0.000139365	0.000614382
ENSMMUG0000004756	growth factor receptor bound protein 2 [Source:NCBI gene;Acc:702041]	-		
ENSMMUG00000058142		1.806050768	1.15E-06	7.71E-06
ENSMMUG00000034931	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-		
ENSMMUG00000022120	transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]	0.940665727	0.012465829	0.032714253
ENSMMUG00000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]	-		
ENSMMUG00000022123	tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]	1.667528409	3.86E-12	5.86E-11
ENSMMUG0000001228	LLGL scribble cell polarity complex component 2 [Source:NCBI gene;Acc:706973]	2.694021111	0.004374809	0.013230079
ENSMMUG00000064684		-		
ENSMMUG00000021636	SAP30 binding protein [Source:VGNC Symbol;Acc:VGNC:77142]	1.331321145	3.11E-17	8.25E-16
ENSMMUG00000013646	unk zinc finger [Source:VGNC Symbol;Acc:VGNC:79803]	-		
ENSMMUG0000002822	unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]	1.664521172	1.08E-07	8.71E-07
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]	1.380372607	2.09E-10	2.53E-09
ENSMMUG00000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	-0.71847342	3.25E-06	2.00E-05
ENSMMUG00000016774	tripartite motif containing 65 [Source:NCBI gene;Acc:708355]	0.548326976	0.006385879	0.018356771
ENSMMUG0000008885	exocyst complex component 7 [Source:VGNC Symbol;Acc:VGNC:72319]	-		
ENSMMUG00000054437	forkhead box J1 [Source:VGNC Symbol;Acc:VGNC:72701]	1.296814993	0.002643482	0.008490978
ENSMMUG0000003533	ring finger protein 157 [Source:VGNC Symbol;Acc:VGNC:76860]	1.429618257	3.45E-10	4.04E-09
ENSMMUG00000055131	UBA like domain containing 2 [Source:NCBI gene;Acc:709614]	1.911238396	1.76E-21	7.36E-20
ENSMMUG0000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	1.734200004	1.16E-19	3.87E-18
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	1.734200004	1.16E-19	3.87E-18
ENSMMUG00000046918	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.271014031	5.17E-17	1.34E-15
ENSMMUG00000054111		2.055859668	0.002246968	0.007347258
ENSMMUG00000055379		0.48963184	2.96E-06	1.83E-05
ENSMMUG00000053937		0.523568312	3.88E-05	0.000192583
ENSMMUG00000011932	transmembrane channel like 6 [Source:VGNC Symbol;Acc:VGNC:79109]	0.367257031	0.018885608	0.046523848
ENSMMUG00000011935	transmembrane channel like 8 [Source:VGNC Symbol;Acc:VGNC:79253]	0.972677597	1.21E-08	1.12E-07
		-		
		1.851383422	0.010500056	0.028199173
		1.981625818	5.25E-08	4.41E-07
		1.367324256	4.15E-22	1.86E-20
		2.637138218	7.22E-08	5.94E-07
		2.166288993	0.000103245	0.000470391
		1.063596361	6.16E-08	5.12E-07
		1.241133566	4.73E-10	5.45E-09
		-		
		0.865071288	0.018376086	0.04544986
		-		
		0.998778346	0.000621578	0.002358149

ENSMMUG00000021864	synaptogyrin 2 [Source:NCBI gene;Acc:709310]	-	3.293540128	0.006373661	0.018332311
ENSMMUG00000013767	baculoviral IAP repeat containing 5 [Source:NCBI gene;Acc:709565]	-	1.058501281	0.012433541	0.032646501
ENSMMUG00000049183	transmembrane protein 235 [Source:NCBI gene;Acc:715249]	-	1.020876206	0.01545682	0.039190399
ENSMMUG00000059852		-	1.625454765	0.008161932	0.022722254
ENSMMUG00000008237	phosphatidylglycerophosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:75890]	-	0.819572501	0.001769997	0.005976562
ENSMMUG00000008239	dynein axonemal heavy chain 17 [Source:NCBI gene;Acc:715774]	-	-0.55368298	0.009482822	0.025860656
ENSMMUG00000049898		-	0.749919658	0.010031641	0.027113038
ENSMMUG00000051537		-	3.169660561	1.17E-09	1.27E-08
ENSMMUG00000013313	cytohesin 1 [Source:VGNC Symbol;Acc:VGNC:71828]	-	0.568990031	0.00418845	0.012739252
ENSMMUG00000005355	TIMP metalloproteinase inhibitor 2 [Source:NCBI gene;Acc:574357]	-	1.77743166	0.010670408	0.028573881
ENSMMUG00000023027	endo-beta-N-acetylglucosaminidase [Source:VGNC Symbol;Acc:VGNC:72099]	-	0.676094141	0.001281413	0.004493581
ENSMMUG00000023028	RNA binding fox-1 homolog 3 [Source:VGNC Symbol;Acc:VGNC:76550]	-	0.423730547	0.011515839	0.030572841
ENSMMUG00000061312		-	2.568707799	0.015648178	0.039648468
ENSMMUG00000058715		-	1.899288416	0.000270174	0.001116688
ENSMMUG00000016414	ectonucleotide pyrophosphatase/phosphodiesterase 7 [Source:VGNC Symbol;Acc:VGNC:72090]	-	1.810690467	0.000260938	0.001083952
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]	-	3.367920954	3.77E-20	1.34E-18
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]	-	2.109759202	7.82E-20	2.68E-18
ENSMMUG00000016418	chromobox 4 [Source:VGNC Symbol;Acc:VGNC:70558]	-	0.685716182	3.21E-05	0.000162772
ENSMMUG00000020840	TBC1 domain family member 16 [Source:VGNC Symbol;Acc:VGNC:78228]	-	0.684535727	4.79E-10	5.52E-09
ENSMMUG00000064603	caspase recruitment domain family member 14 [Source:NCBI gene;Acc:712205]	-	0.420338258	0.001562143	0.005341802
ENSMMUG00000005455	ring finger protein 213 [Source:VGNC Symbol;Acc:VGNC:76734]	-	0.974831603	2.85E-07	2.12E-06
ENSMMUG00000056437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.509707902	2.31E-07	1.75E-06
ENSMMUG00000064563		-	1.173506965	3.29E-06	2.02E-05
ENSMMUG00000000589	N-methylpurine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:74915]	-	1.256538003	0.019981685	0.048818517
ENSMMUG00000000590	NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]	-	1.179752115	0.002908668	0.009254568
ENSMMUG00000029310	hemoglobin, alpha 2 [Source:NCBI gene;Acc:693930]	-	0.644869227	0.000107594	0.000487806
ENSMMUG00000019566	hemoglobin subunit alpha 1 [Source:NCBI gene;Acc:701930]	-	0.937117655	3.53E-06	2.15E-05
ENSMMUG00000000610	post-glycosylphosphatidylinositol attachment to proteins 6 [Source:NCBI gene;Acc:722297]	-	0.933864526	0.001284735	0.004504166
ENSMMUG00000029296	phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]	-	0.971036671	2.97E-06	1.84E-05
ENSMMUG00000038629	RAB40C, member RAS oncogene family [Source:NCBI gene;Acc:722336]	-	0.421187227	0.008968761	0.024644567
ENSMMUG00000001986	WD repeat domain 24 [Source:VGNC Symbol;Acc:VGNC:79289]	-	0.963862557	0.000196902	0.000840788
ENSMMUG00000050065		-	1.097663038	0.000401328	0.001597771
ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]	-	1.226805657	8.91E-10	9.83E-09
ENSMMUG00000014213	calcium voltage-gated channel subunit alpha1 H [Source:VGNC Symbol;Acc:VGNC:70505]	-	-1.90577056	0.006928917	0.0197039
ENSMMUG00000050892	mastin-like [Source:NCBI gene;Acc:722432]	-	-0.34728739	0.008773828	0.0241986
ENSMMUG00000063740		-	0.419753164	0.003161521	0.009945981

ENSMMUG00000051011	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.718192505	0.016528505	0.041552421
ENSMMUG00000044277	ubiquitin conjugating enzyme E2 I [Source:NCBI gene;Acc:722434]	0.714865084	0.000802744	0.002953285
ENSMMUG00000021415	BAI1 associated protein 3 [Source:VGNC Symbol;Acc:VGNC:70223]	0.943617276	0.001015126	0.003648347
ENSMMUG00000012439	N-acetylglucosamine-1-phosphate transferase subunit gamma [Source:NCBI gene;Acc:722441]	0.769182204	0.003678315	0.011340835
ENSMMUG00000008119	telomere maintenance 2 [Source:NCBI gene;Acc:701679]	1.841831056	3.27E-12	5.06E-11
ENSMMUG00000000044	intraflagellar transport 140 [Source:VGNC Symbol;Acc:VGNC:73456]	0.712672473	0.000378802	0.00151787
ENSMMUG00000062198	transmembrane protein 204 [Source:NCBI gene;Acc:701926]	1.466847973	0.000456346	0.001790846
ENSMMUG00000000978	cramped chromatin regulator homolog 1 [Source:NCBI gene;Acc:722473]	0.833052417	5.81E-10	6.60E-09
ENSMMUG00000017496	mitogen-activated protein kinase 8 interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:74651]	0.377161997	0.001247049	0.004385521
ENSMMUG00000007936	methionine sulfoxide reductase B1 [Source:NCBI gene;Acc:693358]	0.514821037	0.010266511	0.027687281
ENSMMUG00000007937	ribosomal protein L3 like [Source:VGNC Symbol;Acc:VGNC:76923]	2.291318455	0.000594744	0.002265036
ENSMMUG00000029265	zinc finger protein 598 [Source:NCBI gene;Acc:694129]	-0.72923872	1.35E-05	7.41E-05
ENSMMUG00000002808	TSC complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:78659]	0.489557543	0.00917897	0.025147631
ENSMMUG00000029263	polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]	1.193865622	7.49E-12	1.09E-10
ENSMMUG00000019223	TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]	0.893073224	5.57E-05	0.000267994
ENSMMUG00000055128	phosphoglycolate phosphatase [Source:NCBI gene;Acc:695591]	0.710454877	0.001264515	0.004438523
ENSMMUG00000019237	enoyl-CoA delta isomerase 1 [Source:VGNC Symbol;Acc:VGNC:81391]	0.400695456	0.014972671	0.0382111
ENSMMUG00000019238	RNA binding protein with serine rich domain 1 [Source:NCBI gene;Acc:695816]	0.444867962	1.60E-06	1.04E-05
ENSMMUG00000000001	cyclin F [Source:VGNC Symbol;Acc:VGNC:70729]	0.632086424	0.004258509	0.012930732
ENSMMUG00000019095	TBC1 domain family member 24 [Source:NCBI gene;Acc:697106]	1.148609052	2.39E-08	2.12E-07
ENSMMUG00000011459	3-phosphoinositide dependent protein kinase 1 [Source:NCBI gene;Acc:697523]	0.751093154	1.25E-14	2.57E-13
ENSMMUG00000061321	host cell factor C1 regulator 1 [Source:NCBI gene;Acc:700351]	0.709800056	0.012570983	0.032937753
ENSMMUG00000007666	THO complex 6 [Source:VGNC Symbol;Acc:VGNC:79703]	0.714562082	0.010486778	0.028168614
ENSMMUG00000007667	BICD family like cargo adaptor 2 [Source:NCBI gene;Acc:700092]	1.053496006	0.000705356	0.002634869
ENSMMUG00000009487	zinc finger protein 205 [Source:VGNC Symbol;Acc:VGNC:78869]	1.011563521	1.04E-14	2.18E-13
ENSMMUG00000064194		0.90950743	0.000513495	0.001992483
ENSMMUG00000020970	zinc finger protein 213 [Source:VGNC Symbol;Acc:VGNC:78872]	0.872812988	1.00E-12	1.65E-11
ENSMMUG00000051323	caspase-14-like [Source:NCBI gene;Acc:702430]	1.175783459	1.18E-09	1.28E-08
ENSMMUG00000064961		1.187608393	0.000196828	0.000840713
ENSMMUG00000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]	1.076400374	3.12E-09	3.17E-08
ENSMMUG00000007569	clusterin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71211]	0.602080502	0.001835064	0.006173775
ENSMMUG00000021866	deoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:71946]	0.396054619	0.000814975	0.002994567
ENSMMUG00000021868	TNF receptor associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79019]	0.908984258	1.02E-10	1.29E-09
ENSMMUG00000039943	adenylate cyclase 9 [Source:NCBI gene;Acc:706789]	1.73130628	3.65E-05	0.000182693
ENSMMUG00000061940		3.355963155	0.001271421	0.004461708
ENSMMUG00000051196		2.209201769	0.000134822	0.000597017

ENSMMUG00000040803	sarcalumenin [Source:NCBI gene;Acc:704655]	-1.99591674	4.96E-07	3.55E-06
ENSMMUG00000044729	transcription factor AP-4 [Source:NCBI gene;Acc:707513]	1.719528807	8.16E-06	4.65E-05
ENSMMUG00000044344	vasorin [Source:NCBI gene;Acc:100426861]	0.984185526	2.71E-06	1.70E-05
ENSMMUG00000008134	DnaJ heat shock protein family (Hsp40) member A3 [Source:NCBI gene;Acc:708783]	0.684070192	7.26E-07	5.05E-06
ENSMMUG00000020540	NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]	1.845073296	1.76E-12	2.82E-11
ENSMMUG00000001888	mahogunin ring finger 1 [Source:VGNC Symbol;Acc:VGNC:74542]	1.224849059	5.17E-05	0.000250373
ENSMMUG00000011001	ankyrin repeat and sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:69735]	0.54933999	0.001388897	0.004820348
ENSMMUG00000014311	chromosome 20 C16orf71 homolog [Source:NCBI gene;Acc:709711]	0.454782095	0.003288603	0.010291197
ENSMMUG00000049336		0.523894465	0.016273838	0.041030435
ENSMMUG00000014313	zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]	0.655715146	1.44E-05	7.87E-05
ENSMMUG00000017945	septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]	0.81211717	1.81E-07	1.40E-06
ENSMMUG00000049327		1.188890969	0.000105193	0.000477944
ENSMMUG00000017946	rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]	0.952005353	5.22E-12	7.82E-11
ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	3.300545234	7.27E-42	2.45E-39
ENSMMUG00000017822	periplakin [Source:VGNC Symbol;Acc:VGNC:76240]	2.605848317	1.48E-08	1.35E-07
ENSMMUG00000018047	SEC14 like lipid binding 5 [Source:VGNC Symbol;Acc:VGNC:77327]	0.552015652	0.007383879	0.020786432
ENSMMUG00000011499	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase [Source:VGNC Symbol;Acc:VGNC:74978]	1.473249013	6.43E-05	0.000305308
ENSMMUG00000046237	4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]	1.154070964	1.27E-10	1.58E-09
ENSMMUG00000022714	phosphomannomutase 2 [Source:VGNC Symbol;Acc:VGNC:76193]	0.651829671	0.000211038	0.000895735
ENSMMUG00000047388	ubiquitin specific peptidase 7 [Source:NCBI gene;Acc:714625]	0.271706468	0.001312446	0.004590466
ENSMMUG00000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	1.519241746	1.45E-17	4.01E-16
ENSMMUG00000010142	glutamate ionotropic receptor NMDA type subunit 2A [Source:VGNC Symbol;Acc:VGNC:73282]	3.462801904	0.001522383	0.005223724
ENSMMUG00000005913	activating transcription factor 7 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70103]	1.169676114	0.000881882	0.003206255
ENSMMUG00000060993	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.915177356	0.009052091	0.024845921
ENSMMUG00000056165		1.914247053	7.65E-06	4.39E-05
ENSMMUG00000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]	2.961775867	2.47E-12	3.88E-11
ENSMMUG00000006515	C-type lectin domain containing 16A [Source:VGNC Symbol;Acc:VGNC:71369]	0.815913744	0.000131168	0.0005831
ENSMMUG00000000566		1.684500765	0.00145531	0.005022633
ENSMMUG00000008784	lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]	4.234737573	6.26E-06	3.65E-05
ENSMMUG00000056339		2.726855872	0.000481138	0.001878691
ENSMMUG00000062037	stannin [Source:NCBI gene;Acc:711909]	2.741703914	1.37E-17	3.78E-16
ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	3.334099831	7.35E-16	1.69E-14
ENSMMUG00000011242	zinc finger CCCH-type containing 7A [Source:VGNC Symbol;Acc:VGNC:79905]	0.42056533	0.011207952	0.0298731
ENSMMUG00000019632	ribosomal L1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77096]	0.739420756	3.13E-10	3.68E-09
ENSMMUG00000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	1.73767332	1.52E-18	4.60E-17
ENSMMUG00000025991		2.392881409	0.012437097	0.032646501
ENSMMUG00000017379	myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]	1.296503956	1.46E-08	1.34E-07
ENSMMUG00000062213	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.760237345	0.015003164	0.038262583

ENSMMUG00000057747		-	1.742048564	0.000380634	0.001523976
ENSMMUG00000064131		-	-2.10840814	7.12E-12	1.04E-10
ENSMMUG00000027108	mml-mir-193b [Source:miRBase;Acc:MI0007656]	-	3.366705092	5.76E-07	4.08E-06
ENSMMUG00000052203		-	-2.04614549	0.01540743	0.039098594
ENSMMUG00000054410	group 10 secretory phospholipase A2 [Source:NCBI gene;Acc:717517]	-	0.943048683	0.004172082	0.012702109
ENSMMUG00000064246		-	0.80748612	0.0037504	0.011541489
ENSMMUG00000062791		-	2.150891895	1.51E-07	1.18E-06
ENSMMUG00000062623	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.137037978	2.71E-06	1.70E-05
ENSMMUG00000058016	bMERB domain containing 1 [Source:NCBI gene;Acc:713757]	-	1.503470287	4.60E-11	6.10E-10
ENSMMUG00000010367	myosin heavy chain 11 [Source:VGNC Symbol;Acc:VGNC:75097]	-	0.808538993	1.44E-08	1.31E-07
ENSMMUG00000060748	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.480802049	0.017561303	0.043719007
ENSMMUG00000017131	xylosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:78977]	-	0.650655516	0.018527189	0.045747289
ENSMMUG00000013329	transmembrane channel like 5 [Source:VGNC Symbol;Acc:VGNC:79366]	-	1.116533726	0.006805075	0.019392632
ENSMMUG00000002709	G protein-coupled receptor class C group 5 member B [Source:VGNC Symbol;Acc:VGNC:72934]	-	0.908974695	3.43E-08	2.95E-07
ENSMMUG00000055853	G protein-coupled receptor 139 [Source:NCBI gene;Acc:695541]	-	0.992928123	0.015994849	0.040395709
ENSMMUG00000016753	dynein axonemal heavy chain 3 [Source:VGNC Symbol;Acc:VGNC:71941]	-	0.868510276	0.00503797	0.014945609
ENSMMUG00000016758	transmembrane protein 159 [Source:VGNC Symbol;Acc:VGNC:79836]	-	0.900785639	8.44E-07	5.80E-06
ENSMMUG00000016759	zona pellucida glycoprotein 2 [Source:VGNC Symbol;Acc:VGNC:78914]	-	0.57431529	0.009636503	0.026202666
ENSMMUG00000062042	ankyrin repeat and sterile alpha motif domain containing 4B [Source:NCBI gene;Acc:697713]	-	1.131611511	0.002214474	0.007254395
ENSMMUG00000064659		-	0.707898608	0.00071777	0.002671821
ENSMMUG00000017725	eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]	-	-0.69213822	4.07E-07	2.94E-06
ENSMMUG00000002257	RNA polymerase III subunit E [Source:VGNC Symbol;Acc:VGNC:76142]	-	0.564119677	3.83E-05	0.000190352
ENSMMUG00000022035	cerebellar degeneration related protein 2 [Source:VGNC Symbol;Acc:VGNC:70993]	-	1.044134715	0.000266124	0.001103023
ENSMMUG00000058042	heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]	-	1.762022935	9.83E-21	3.78E-19
ENSMMUG00000014271	protein kinase C beta [Source:VGNC Symbol;Acc:VGNC:76410]	-	0.571858519	2.75E-05	0.000141764
ENSMMUG00000054064		-	1.396649659	1.21E-08	1.12E-07
ENSMMUG00000013560	calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]	-	0.975398866	1.82E-11	2.52E-10
ENSMMUG00000023891		-	2.746713233	0.004921717	0.014656439
ENSMMUG00000057850		-	1.192798905	2.07E-05	0.000109541
ENSMMUG00000057160		-	1.424972499	9.89E-06	5.55E-05
ENSMMUG00000015908	RB binding protein 6, ubiquitin ligase [Source:VGNC Symbol;Acc:VGNC:76677]	-	1.180420652	7.24E-10	8.14E-09
ENSMMUG00000001407	solute carrier family 5 member 11 [Source:VGNC Symbol;Acc:VGNC:77759]	-	0.740898529	3.29E-12	5.08E-11
ENSMMUG00000029176	Rho GTPase activating protein 17 [Source:NCBI gene;Acc:701988]	-	0.540663038	3.83E-05	0.000190243
ENSMMUG00000005942	leucine carboxyl methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:74067]	-	0.688177473	1.32E-08	1.22E-07
ENSMMUG00000015570	KIAA0556 [Source:VGNC Symbol;Acc:VGNC:73927]	-	0.535420594	0.006317318	0.018187891
ENSMMUG00000015572	GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]	-	1.402339708	7.63E-12	1.11E-10
ENSMMUG00000018623	exportin 6 [Source:NCBI gene;Acc:704332]	-	0.906947941	0.005405036	0.015869469
ENSMMUG00000051475		-	0.695176016	0.015385905	0.039050655
ENSMMUG00000023526	ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 1 [Source:NCBI gene;Acc:708058]	-	1.951849553	0.006301848	0.018146876

ENSMMUG0000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	2.134218182	2.07E-35	3.57E-33
ENSMMUG0000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	2.008927612	4.71E-33	6.41E-31
ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	2.128817046	2.95E-32	3.53E-30
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	1.91125158	3.63E-21	1.47E-19
ENSMMUG00000011370	SAGA complex associated factor 29 [Source:NCBI gene;Acc:709124]	2.767516921	0.011770426	0.03117061
ENSMMUG00000022330	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 [Source:NCBI gene;Acc:100428398]	2.482624085	0.000270119	0.001116688
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	1.854535231	1.02E-22	4.89E-21
ENSMMUG00000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	2.826094455	8.55E-11	1.09E-09
ENSMMUG00000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	1.704603205	1.83E-08	1.65E-07
ENSMMUG00000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	1.722741966	4.16E-08	3.52E-07
ENSMMUG00000000983	aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]	1.258723464	4.38E-07	3.15E-06
ENSMMUG00000020277	double C2 domain alpha [Source:VGNC Symbol;Acc:VGNC:71963]	0.642700357	3.93E-07	2.85E-06
ENSMMUG00000020274	TAO kinase 2 [Source:VGNC Symbol;Acc:VGNC:81592]	0.456377047	0.000327191	0.001328652
ENSMMUG00000018992	aspartate beta-hydroxylase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70138]	1.471029625	0.008110736	0.022609438
ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	1.544165894	3.83E-09	3.84E-08
ENSMMUG00000061749	PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]	0.895874464	2.91E-10	3.45E-09
ENSMMUG00000019826	MYC associated zinc finger protein [Source:NCBI gene;Acc:708982]	0.82232412	4.53E-06	2.72E-05
ENSMMUG00000009684	kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]	1.820243022	1.93E-12	3.08E-11
ENSMMUG00000021210	chromosome 20 C16orf54 homolog [Source:VGNC Symbol;Acc:VGNC:70402]	-1.2277325	0.017303283	0.043156354
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	2.18374603	1.17E-26	8.49E-25
ENSMMUG00000021844	CD2 cytoplasmic tail binding protein 2 [Source:NCBI gene;Acc:709961]	0.486575922	0.000715372	0.002664899
ENSMMUG00000016879	zinc finger protein 768 [Source:VGNC Symbol;Acc:VGNC:82280]	1.996885705	0.016961812	0.04248331
ENSMMUG00000001121	zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]	1.762136771	8.11E-10	9.01E-09
ENSMMUG00000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	1.287447693	7.19E-17	1.83E-15
ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	0.885959565	4.35E-12	6.56E-11
ENSMMUG00000047302	cardiotrophin 1 [Source:NCBI gene;Acc:713850]	0.944094359	0.007135955	0.020191988
ENSMMUG00000003230	F-box and leucine rich repeat protein 19 [Source:VGNC Symbol;Acc:VGNC:81406]	-0.58326879	0.00176974	0.005976562
ENSMMUG00000003233	SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]	0.799955446	5.99E-06	3.51E-05
ENSMMUG00000048207	syntaxin 4 [Source:NCBI gene;Acc:704880]	1.123754364	4.72E-12	7.09E-11
ENSMMUG00000002033	serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]	1.138769568	4.00E-13	6.93E-12
ENSMMUG00000016276	tripartite motif containing 72 [Source:VGNC Symbol;Acc:VGNC:79927]	0.982965957	0.000145992	0.000640553
ENSMMUG00000014349	integrin subunit alpha X [Source:NCBI gene;Acc:100427850]	2.607144045	3.04E-17	8.07E-16
ENSMMUG00000000901	alpha hemoglobin stabilizing protein [Source:VGNC Symbol;Acc:VGNC:69631]	0.693867607	0.000416558	0.001652194
ENSMMUG00000058907		2.448512963	7.67E-10	8.58E-09
ENSMMUG00000055973	phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]	2.952457262	1.21E-07	9.65E-07
ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]	0.872917052	6.26E-05	0.000298216
ENSMMUG00000048906	zinc finger protein 91-like [Source:NCBI gene;Acc:716072]	0.814125196	0.018941153	0.046629699
ENSMMUG00000003288	glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]	1.302848847	8.47E-11	1.08E-09
ENSMMUG00000019868	NKD inhibitor of WNT signaling pathway 1 [Source:VGNC Symbol;Acc:VGNC:75198]	1.703630691	8.92E-05	0.000411529
ENSMMUG00000019869	sorting nexin 20 [Source:VGNC Symbol;Acc:VGNC:77796]	1.576795162	8.90E-05	0.000411109

ENSMMUG00000012209	CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]	1.599121318	7.14E-13	1.21E-11
ENSMMUG00000055889		1.908352322	4.16E-07	3.00E-06
ENSMMUG00000064095		4.378623289	3.06E-10	3.62E-09
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	2.774404187	1.19E-15	2.67E-14
ENSMMUG00000050057		1.39631595	1.70E-12	2.73E-11
ENSMMUG00000058254		1.370771309	2.27E-09	2.36E-08
ENSMMUG00000020583	FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]	1.071779218	8.93E-08	7.24E-07
ENSMMUG00000050851		2.995056028	0.018261958	0.045212827
ENSMMUG00000054811		2.659461165	0.000645585	0.002438
ENSMMUG00000056555		1.662075476	1.66E-14	3.38E-13
ENSMMUG00000063965		0.547118635	0.012285613	0.032327118
ENSMMUG00000061439		1.029188125	0.004881156	0.014561968
ENSMMUG00000023525	cadherin 5 [Source:VGNC Symbol;Acc:VGNC:70973]	0.481542948	0.000743758	0.002756794
ENSMMUG00000029108	CKLF like MARVEL transmembrane domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19172]	0.491727834	0.002892859	0.009210198
ENSMMUG00000049484		0.904027485	1.39E-06	9.21E-06
ENSMMUG00000020847	CKLF like MARVEL transmembrane domain containing 3 [Source:VGNC Symbol;Acc:VGNC:71215]	1.528046381	1.85E-06	1.20E-05
ENSMMUG00000049583	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:NCBI gene;Acc:695086]	0.303253744	0.004805764	0.014371593
ENSMMUG00000022825	carboxylesterase 2 [Source:VGNC Symbol;Acc:VGNC:71012]	0.351012881	0.000189302	0.00081152
ENSMMUG00000064237		1.043203948	6.16E-06	3.60E-05
ENSMMUG00000054948		1.239975449	0.006822677	0.019439059
ENSMMUG00000058815	core-binding factor subunit beta [Source:NCBI gene;Acc:695767]	0.942303273	0.001181131	0.004181468
ENSMMUG00000018102	chromosome 20 C16orf70 homolog [Source:VGNC Symbol;Acc:VGNC:70438]	0.895456207	0.001567293	0.005354286
ENSMMUG00000005906	heat shock transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:73533]	0.84942013	2.31E-05	0.000120908
ENSMMUG00000020266	KIAA0895 like [Source:VGNC Symbol;Acc:VGNC:73952]	1.526356035	0.002346005	0.00764307
ENSMMUG00000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]	1.401616709	3.43E-12	5.27E-11
ENSMMUG00000020258	E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]	1.1470692	3.59E-08	3.07E-07
ENSMMUG00000020259	engulfment and cell motility 3 [Source:VGNC Symbol;Acc:VGNC:72060]	1.159512462	0.009531198	0.025954401
ENSMMUG00000018111	formin homology 2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72523]	1.412596952	0.005856769	0.017021144
ENSMMUG00000054637	tubulin polymerization promoting protein family member 3 [Source:NCBI gene;Acc:100429881]	1.920057825	0.001003317	0.00361233
ENSMMUG00000009825	zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]	1.226787821	3.02E-15	6.56E-14
ENSMMUG00000029105	ATPase H+ transporting V0 subunit d1 [Source:NCBI gene;Acc:698345]	0.655835728	0.012099394	0.03189371
ENSMMUG00000057511	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.681915573	0.004629858	0.013910785
ENSMMUG00000017105	RHO family interacting cell polarization regulator 1 [Source:NCBI gene;Acc:699910]	0.451975591	2.23E-05	0.000117033
ENSMMUG00000009799	capping protein regulator and myosin 1 linker 2 [Source:VGNC Symbol;Acc:VGNC:70647]	2.513649085	0.012816405	0.033489509
ENSMMUG00000007803	translin associated factor X interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79151]	0.380916546	0.013334259	0.034637775
ENSMMUG00000037975	solute carrier family 7 member 6 [Source:NCBI gene;Acc:702903]	0.911237631	0.00066115	0.00249044
ENSMMUG00000059872		1.480540764	0.002609382	0.008392351
ENSMMUG00000010393	cadherin 3 [Source:VGNC Symbol;Acc:VGNC:70971]	0.663423473	2.80E-10	3.33E-09
ENSMMUG00000022177	transport and golgi organization 6 homolog [Source:NCBI gene;Acc:704499]	1.389798033	0.004664162	0.01399343

ENSMMUG00000010925	chromosome transmission fidelity protein 8 homolog [Source:NCBI gene;Acc:114669750]	2.557411009	0.009178116	0.025147631
ENSMMUG00000012039	cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]	4.271432149	3.12E-06	1.93E-05
ENSMMUG00000018255	nuclear factor of activated T cells 5 [Source:VGNC Symbol;Acc:VGNC:75325]	0.988695396	4.28E-10	4.96E-09
ENSMMUG00000019684	NAD(P)H quinone dehydrogenase 1 [Source:NCBI gene;Acc:705635]	0.691052541	1.48E-05	8.10E-05
ENSMMUG00000000680	polyamine modulated factor 1 binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76052]	1.196463135	0.015552256	0.039418896
ENSMMUG00000049699	thioredoxin like 4B [Source:NCBI gene;Acc:706840]	1.210424103	0.000169764	0.000733139
ENSMMUG00000023312	haptoglobin [Source:NCBI gene;Acc:706640]	1.288065973	0.000316726	0.001290398
ENSMMUG00000016716	zinc finger protein 821 [Source:VGNC Symbol;Acc:VGNC:79679]	0.633701369	0.002050687	0.006801987
ENSMMUG00000048077	ataxin 1 like [Source:NCBI gene;Acc:709805]	1.125704559	6.37E-09	6.17E-08
ENSMMUG00000012007	PH domain and leucine rich repeat protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:81494]	0.884821602	0.000698383	0.002611452
ENSMMUG00000052324	MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]	1.006970052	0.000152505	0.000666563
ENSMMUG00000002018	tyrosine aminotransferase [Source:VGNC Symbol;Acc:VGNC:78100]	-0.4785187	0.00094098	0.003402764
ENSMMUG00000061967	carbohydrate sulfotransferase 4 [Source:NCBI gene;Acc:708116]	0.896519013	0.003117263	0.009821331
ENSMMUG00000023147	pyruvate dehydrogenase phosphatase regulatory subunit [Source:VGNC Symbol;Acc:VGNC:75897]	1.580804134	0.000530125	0.002048399
ENSMMUG00000005751	adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]	2.183645356	0.000100862	0.000460951
ENSMMUG00000005754	lysyl-tRNA synthetase 1 [Source:NCBI gene;Acc:714516]	1.421754291	0.00023916	0.001002471
ENSMMUG00000055178	double homeobox B [Source:NCBI gene;Acc:114674350]	1.757333793	0.009889463	0.026787348
ENSMMUG00000003916	contactin associated protein family member 4 [Source:VGNC Symbol;Acc:VGNC:71209]	-1.77629751	0.000136048	0.00060119
ENSMMUG00000053231		0.946180777	4.21E-05	0.000207529
ENSMMUG00000037756	MAF bZIP transcription factor [Source:NCBI gene;Acc:106995090]	0.638502567	0.000513504	0.001992483
ENSMMUG00000005334	phospholipase C gamma 2 [Source:VGNC Symbol;Acc:VGNC:76170]	0.858866527	1.88E-10	2.30E-09
ENSMMUG00000062047		1.000143522	0.001593594	0.005430378
ENSMMUG00000053215		0.808604317	0.00122773	0.004326813
ENSMMUG00000057329		2.541006061	7.53E-11	9.67E-10
ENSMMUG00000011244	kelch like family member 36 [Source:NCBI gene;Acc:715423]	3.161654422	0.004006534	0.012253435
ENSMMUG00000011893	KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]	1.398300669	4.58E-08	3.87E-07
ENSMMUG00000011894	CBY1 interacting BAR domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72335]	1.220616227	6.64E-07	4.66E-06
ENSMMUG00000061995		1.045624284	1.04E-12	1.71E-11
ENSMMUG00000052120		-2.52487217	0.000184978	0.000794215
ENSMMUG00000020592	Gse1 coiled-coil protein [Source:VGNC Symbol;Acc:VGNC:73254]	1.271687394	0.000144571	0.000634504
ENSMMUG00000006763	cytochrome c oxidase subunit IV isoform 1 [Source:NCBI gene;Acc:693811]	0.89652376	4.94E-10	5.66E-09
ENSMMUG00000019500	methenyltetrahydrofolate synthetase domain containing [Source:VGNC Symbol;Acc:VGNC:75023]	0.808269415	0.000329013	0.001334954
ENSMMUG00000060536		1.701858562	0.00027436	0.001132414
ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]	1.371374195	4.94E-29	4.47E-27
ENSMMUG00000022867	kelch domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74122]	0.705551664	5.07E-05	0.000246579
ENSMMUG00000058437		2.177393404	7.84E-29	6.88E-27
ENSMMUG00000052851	solute carrier family 7 member 5 [Source:NCBI gene;Acc:695886]	1.705251029	1.63E-11	2.26E-10

ENSMMUG00000054935		-	1.382059216	0.002359695	0.007684296
ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]	-	1.897366045	0.001557303	0.00532752
ENSMMUG00000008942	carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]	-	2.023233602	3.62E-05	0.000181655
ENSMMUG00000058864		-	2.257874157	0.011173003	0.029785301
ENSMMUG00000015702	divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]	-	-2.12174843	0.002325435	0.007581052
ENSMMUG00000020905	chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]	-	-2.36766145	0.001956286	0.00652976
ENSMMUG00000023298	F-box protein 15 [Source:VGNC Symbol;Acc:VGNC:72504]	-	2.192180585	0.001912376	0.00640482
ENSMMUG00000056477		-	0.533789515	0.00180635	0.006085456
ENSMMUG00000050516		-	0.503941346	0.002074132	0.006868482
ENSMMUG00000060966		-	2.863087932	3.17E-05	0.000160843
ENSMMUG00000045074		-	2.814332451	0.018655178	0.046002044
ENSMMUG00000047095	serpin family B member 13 [Source:NCBI gene;Acc:701078]	-	1.788135723	0.011624867	0.030834696
ENSMMUG00000057978		-	1.821257469	0.003666789	0.011307649
ENSMMUG00000001245	zinc finger protein 532 [Source:NCBI gene;Acc:701146]	-	5.004864317	1.62E-08	1.46E-07
ENSMMUG00000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.632477663	1.15E-06	7.73E-06
ENSMMUG00000065131		-	2.512753038	0.004896754	0.01459969
ENSMMUG00000058948		-	0.731808472	1.74E-05	9.40E-05
ENSMMUG00000055751		-	1.35282638	0.000134254	0.000594679
ENSMMUG00000012001	transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]	-	0.885277269	0.000103568	0.000471429
ENSMMUG00000020898	cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]	-	-1.5925568	1.78E-06	1.15E-05
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	-	3.543594688	3.93E-20	1.39E-18
ENSMMUG00000053364		-	1.059090419	2.79E-07	2.08E-06
ENSMMUG00000058218		-	0.806304935	0.015890914	0.04020168
ENSMMUG00000015952	katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]	-	1.941543666	1.29E-05	7.13E-05
ENSMMUG00000015951	elongin A2 [Source:NCBI gene;Acc:702788]	-	2.546620636	0.015330858	0.038957612
ENSMMUG00000044172	elongin-A3-like [Source:NCBI gene;Acc:106994494]	-	1.649777987	0.016768248	0.042105168
ENSMMUG00000043738		-	2.188060972	7.44E-05	0.000348442
ENSMMUG00000004498	protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]	-	1.903197273	5.81E-09	5.65E-08
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	-	2.977663197	1.01E-32	1.32E-30
ENSMMUG00000017246	lipoygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	-	2.343939401	1.65E-20	6.19E-19
ENSMMUG00000053435		-	1.867548976	0.000339627	0.00137426
ENSMMUG00000017243	ring finger protein 165 [Source:VGNC Symbol;Acc:VGNC:76877]	-	0.972535315	0.000720749	0.002681561
ENSMMUG00000064342		-	2.164510404	0.01565566	0.03966065
ENSMMUG00000049194		-	1.153969456	0.012697717	0.033228717

ENSMMUG00000006864	KIAA1328 ortholog [Source:NCBI gene;Acc:709850]	1.824386902	0.013004204	0.033899163
ENSMMUG00000018791	molybdenum cofactor sulfurase [Source:VGNC Symbol;Acc:VGNC:74792]	1.113444099	7.62E-06	4.38E-05
ENSMMUG00000018784	solute carrier family 39 member 6 [Source:VGNC Symbol;Acc:VGNC:77508]	0.909901524	3.80E-14	7.37E-13
ENSMMUG00000018785	elongator acetyltransferase complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72069]	1.038967816	2.10E-09	2.20E-08
ENSMMUG00000018777	regulation of nuclear pre-mRNA domain containing 1A [Source:VGNC Symbol;Acc:VGNC:77103]	0.750535355	0.000710213	0.002649009
ENSMMUG00000003302	dystrobrevin alpha [Source:VGNC Symbol;Acc:VGNC:72007]	1.395350058	8.82E-05	0.000407753
ENSMMUG00000017276	nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]	0.835820822	5.75E-05	0.000275918
ENSMMUG00000014451	ASXL transcriptional regulator 3 [Source:VGNC Symbol;Acc:VGNC:70152]	1.026832309	1.07E-05	5.98E-05
ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]	1.637001077	0.00068486	0.002569956
ENSMMUG00000021095	desmoglein 2 [Source:VGNC Symbol;Acc:VGNC:72002]	1.892563958	0.005090955	0.015072643
ENSMMUG00000049366	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.786512804	0.011813078	0.031255656
ENSMMUG00000048746		1.033464841	0.001103454	0.003934654
ENSMMUG00000060604		0.762683597	0.016422667	0.041335395
ENSMMUG00000057475		2.030624625	9.53E-06	5.37E-05
ENSMMUG00000009669	cutaneous T cell lymphoma-associated antigen 1 [Source:NCBI gene;Acc:106994443]	2.024204887	1.43E-06	9.40E-06
ENSMMUG00000061690		-2.15461127	0.00039872	0.001588241
ENSMMUG00000010944	GATA binding protein 6 [Source:VGNC Symbol;Acc:VGNC:72891]	1.190285591	8.11E-06	4.63E-05
ENSMMUG00000064806		1.365907161	1.50E-06	9.88E-06
ENSMMUG00000004382	abhydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:69464]	1.641422513	0.004921188	0.014656439
ENSMMUG00000051922	small nuclear ribonucleoprotein D1 polypeptide [Source:NCBI gene;Acc:698965]	3.140219246	0.016090206	0.040615787
ENSMMUG00000003974	GREB1 like retinoic acid receptor coactivator [Source:NCBI gene;Acc:700655]	-2.09440017	0.014756068	0.037742754
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	1.646428751	8.70E-17	2.20E-15
ENSMMUG00000052605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.891520803	5.25E-06	3.11E-05
ENSMMUG00000005086	homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]	1.09105523	2.10E-05	0.00011103
ENSMMUG00000001471	DLG associated protein 1 [Source:NCBI gene;Acc:694049]	0.491164165	0.002017439	0.006706707
ENSMMUG00000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	2.282227873	3.37E-30	3.31E-28
ENSMMUG00000016302	L3MBTL histone methyl-lysine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:74133]	0.645687843	0.000248591	0.00103848
ENSMMUG00000015761	microtubule crosslinking factor 1 [Source:VGNC Symbol;Acc:VGNC:74852]	0.423308138	0.007188302	0.020320724
ENSMMUG00000053008		1.687874526	1.12E-08	1.05E-07
ENSMMUG00000049523	ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]	1.442087332	7.18E-07	5.00E-06
ENSMMUG00000023717	MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]	1.747596432	2.63E-16	6.33E-15
ENSMMUG00000059175		1.979589448	2.94E-10	3.48E-09
ENSMMUG00000053083	C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]	2.143086005	3.25E-06	2.00E-05

ENSMMUG00000045966	granzyme M [Source:NCBI gene;Acc:715031]	1.598164409	0.000838192	0.003070748
ENSMMUG00000012768	hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2 [Source:NCBI gene;Acc:100425114]	1.112424453	0.000677529	0.002543734
ENSMMUG00000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]	1.271709028	3.09E-19	9.85E-18
ENSMMUG00000055423	fibroblast growth factor 22 [Source:NCBI gene;Acc:702727]	0.409634749	0.002377663	0.007736012
ENSMMUG00000008672	ring finger protein 126 [Source:VGNC Symbol;Acc:VGNC:76791]	-0.80012517	9.82E-05	0.000449512
ENSMMUG00000056220	follistatin like 3 [Source:NCBI gene;Acc:721100]	0.886030266	0.013508947	0.035036644
ENSMMUG00000016450	polypyrimidine tract binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76462]	-0.39567465	0.016777938	0.042115238
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	2.394709832	1.31E-07	1.04E-06
ENSMMUG00000061589	proteinase 3 [Source:HGNC Symbol;Acc:HGNC:9495]	2.709654939	0.000694599	0.002600556
ENSMMUG00000009674	elastase, neutrophil expressed [Source:VGNC Symbol;Acc:VGNC:72199]	2.27379991	0.000557634	0.002141276
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	2.142057297	9.83E-24	5.28E-22
ENSMMUG00000009682	R3H domain containing 4 [Source:VGNC Symbol;Acc:VGNC:76554]	1.167845499	0.000320344	0.001304049
ENSMMUG00000002278	AT-rich interaction domain 3A [Source:VGNC Symbol;Acc:VGNC:69930]	1.585196714	1.74E-08	1.57E-07
ENSMMUG00000058621		1.685328636	1.72E-16	4.20E-15
ENSMMUG00000002638	WD repeat domain 18 [Source:VGNC Symbol;Acc:VGNC:79103]	-0.78222082	0.005053791	0.014986547
ENSMMUG00000048135	glutamate ionotropic receptor NMDA type subunit 3B [Source:NCBI gene;Acc:721155]	-0.4491836	0.002229314	0.007299784
ENSMMUG00000013577	transmembrane protein 259 [Source:NCBI gene;Acc:721161]	0.409311266	0.002021645	0.006717677
ENSMMUG00000015306	calponin 2 [Source:NCBI gene;Acc:721164]	1.069838583	5.73E-11	7.48E-10
ENSMMUG00000015303	ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]	0.940893037	1.19E-06	7.99E-06
ENSMMUG00000058856	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.114664975	0.003908152	0.011969825
ENSMMUG00000010886	strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]	1.822064931	3.46E-05	0.000174299
ENSMMUG00000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.832862446	7.10E-26	4.54E-24
ENSMMUG00000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	1.872699342	5.50E-30	5.29E-28
ENSMMUG00000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]	1.138224781	2.09E-12	3.31E-11
ENSMMUG00000003053	APC regulator of WNT signaling pathway 2 [Source:VGNC Symbol;Acc:VGNC:69888]	1.166509973	2.18E-05	0.00011467
ENSMMUG00000009014	methyl-CpG binding domain protein 3 [Source:VGNC Symbol;Acc:VGNC:81470]	0.786325865	0.00754172	0.021202598
ENSMMUG00000016539	abhydrolase domain containing 17A [Source:VGNC Symbol;Acc:VGNC:69543]	0.756219294	0.000701362	0.002621931
ENSMMUG00000013747	secretory carrier membrane protein 4 [Source:VGNC Symbol;Acc:VGNC:77135]	0.531804782	0.000165889	0.000718495
ENSMMUG00000006620	casein kinase 1 gamma 2 [Source:NCBI gene;Acc:709484]	0.783583571	0.000653213	0.002463043
ENSMMUG00000059725		0.864765303	0.009929867	0.026875954
ENSMMUG00000015660	IZUMO family member 4 [Source:VGNC Symbol;Acc:VGNC:73665]	0.923474883	0.017104669	0.042773913
ENSMMUG00000015663	adaptor related protein complex 3 subunit delta 1 [Source:VGNC Symbol;Acc:VGNC:69969]	0.928073218	2.10E-07	1.60E-06
ENSMMUG00000017949	ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]	0.850682096	1.55E-14	3.17E-13
ENSMMUG00000058241	leucine rich repeat and Ig domain containing 3 [Source:NCBI gene;Acc:721484]	1.029409134	0.000504224	0.001960063
ENSMMUG00000064612	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.067054517	0.000123876	0.00055267
ENSMMUG00000000452	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]	2.346436014	2.68E-06	1.68E-05
ENSMMUG00000055417		0.683931941	1.63E-05	8.83E-05
ENSMMUG00000003468	growth arrest and DNA damage inducible beta [Source:VGNC Symbol;Acc:VGNC:72864]	0.696077957	0.000558807	0.00214414
ENSMMUG00000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.868136246	1.35E-14	2.77E-13
ENSMMUG00000007268	thimet oligopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78347]	0.78257858	0.000552432	0.002125179

ENSMMUG0000007485	zinc finger protein 555 [Source:VGNC Symbol;Acc:VGNC:79705]	-	0.999617202	1.10E-05	6.11E-05
ENSMMUG0000002912	TLE family member 6, subcortical maternal complex member [Source:VGNC Symbol;Acc:VGNC:79879]	-	0.907865566	0.000209497	0.000889446
ENSMMUG0000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	-	1.470496668	2.59E-11	3.52E-10
ENSMMUG00000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	-	2.237269373	1.35E-17	3.75E-16
ENSMMUG00000015513	CUGBP Elav-like family member 5 [Source:NCBI gene;Acc:721694]	-	1.970445855	1.51E-06	9.91E-06
ENSMMUG00000060497		-	2.402763757	1.47E-09	1.57E-08
ENSMMUG00000003439	nuclear factor I C [Source:VGNC Symbol;Acc:VGNC:75336]	-	1.042787804	0.001002429	0.003610011
ENSMMUG00000018096	high mobility group 20B [Source:NCBI gene;Acc:721723]	-	1.556353833	0.00648836	0.018615278
ENSMMUG00000028931	cactin, spliceosome C complex subunit [Source:NCBI gene;Acc:721737]	-	0.739993536	0.004342793	0.013148963
ENSMMUG00000028930	tight junction protein 3 [Source:NCBI gene;Acc:721760]	-	-0.49221499	0.007035603	0.019958761
ENSMMUG00000001917	megakaryocyte-associated tyrosine kinase [Source:NCBI gene;Acc:100430078]	-	0.765372015	0.001832732	0.006168728
ENSMMUG00000039195	ATCAY kinesin light chain interacting caytaxin [Source:NCBI gene;Acc:721783]	-	0.906237036	0.001525811	0.005234163
ENSMMUG00000056147		-	1.428117436	1.61E-06	1.05E-05
ENSMMUG00000022767	eukaryotic translation elongation factor 2 [Source:NCBI gene;Acc:721806]	-	2.233711934	0.00772429	0.021662486
ENSMMUG00000019564	mitogen-activated protein kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81453]	-	0.543948109	2.56E-05	0.000132984
ENSMMUG00000028928	ankyrin repeat domain 24 [Source:NCBI gene;Acc:721829]	-	0.517791547	6.80E-05	0.000321035
ENSMMUG00000010100	YJU2 splicing factor homolog [Source:NCBI gene;Acc:718892]	-	0.986456967	0.012228603	0.032190001
ENSMMUG00000028925	HDGF like 2 [Source:NCBI gene;Acc:693476]	-	3.592375693	4.18E-09	4.16E-08
ENSMMUG00000022656	perilipin 4 [Source:NCBI gene;Acc:693610]	-	1.807005546	0.005074017	0.015039846
ENSMMUG00000021716	dipeptidyl peptidase 9 [Source:NCBI gene;Acc:695587]	-	0.479905375	0.016170174	0.040796815
ENSMMUG00000062995		-	0.94284257	3.25E-08	2.81E-07
ENSMMUG00000058275	arrestin domain containing 5 [Source:NCBI gene;Acc:697277]	-	0.877432799	0.000119376	0.000534041
ENSMMUG00000012677	lysine demethylase 4B [Source:VGNC Symbol;Acc:VGNC:73930]	-	1.103551549	4.79E-08	4.03E-07
ENSMMUG00000011962	protein tyrosine phosphatase receptor type 5 [Source:VGNC Symbol;Acc:VGNC:76622]	-	0.784407137	0.003266683	0.010244219
ENSMMUG00000050702	fucosyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:4016]	-	0.655458672	3.48E-05	0.000174981
ENSMMUG00000016665	NADH:ubiquinone oxidoreductase subunit A11 [Source:NCBI gene;Acc:697843]	-	1.535294641	2.59E-05	0.000134395
ENSMMUG00000011963	vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]	-	1.165578924	6.49E-16	1.50E-14
ENSMMUG00000011964	RAN binding protein 3 [Source:VGNC Symbol;Acc:VGNC:76655]	-	-0.7364733	4.83E-06	2.88E-05
ENSMMUG00000005697	MLLT1 super elongation complex subunit [Source:VGNC Symbol;Acc:VGNC:74881]	-	0.888173043	0.004712489	0.014126989
ENSMMUG00000063389		-	3.308077794	0.004300966	0.013040284
ENSMMUG00000005698	alkaline ceramidase 1 [Source:VGNC Symbol;Acc:VGNC:69460]	-	2.446167278	2.06E-06	1.32E-05
ENSMMUG00000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	-	2.386317941	1.54E-11	2.15E-10
ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]	-	2.184649176	0.000102536	0.000467735
ENSMMUG00000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]	-	2.217932423	6.35E-23	3.13E-21
ENSMMUG00000063988		-	1.954080385	2.10E-06	1.34E-05
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	-	1.390919727	9.03E-22	3.95E-20
ENSMMUG00000057682		-	1.471248779	6.86E-22	3.04E-20
ENSMMUG00000028907	insulin receptor [Source:NCBI gene;Acc:706009]	-	3.238525648	4.86E-21	1.93E-19
ENSMMUG00000028906	Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]	-	1.637634975	0.000602426	0.002290763

ENSMMUG00000011389	mucolipin 1 [Source:VGNC Symbol;Acc:VGNC:74503]	2.21366116	0.002380976	0.007743393
ENSMMUG00000009540	calmodulin regulated spectrin associated protein family member 3 [Source:VGNC Symbol;Acc:VGNC:70669]	0.563940096	5.44E-05	0.00026266
ENSMMUG00000009539	XPA binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78943]	-0.67196275	2.99E-05	0.000152971
ENSMMUG00000022463	C-type lectin CD209L2 [Source:NCBI gene;Acc:574373]	1.532493045	0.000426369	0.001686792
ENSMMUG00000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.909657972	2.63E-37	5.35E-35
ENSMMUG00000014032	proline rich 36 [Source:NCBI gene;Acc:710443]	5.711938376	4.68E-21	1.87E-19
ENSMMUG00000006540	small nuclear RNA activating complex polypeptide 2 [Source:VGNC Symbol;Acc:VGNC:77666]	0.509275018	0.001569852	0.005359323
ENSMMUG00000010614	C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]	3.321167446	0.000230517	0.000970632
ENSMMUG00000011178	ceramide synthase 4 [Source:VGNC Symbol;Acc:VGNC:71077]	0.418265108	0.015933151	0.040274603
ENSMMUG00000016695	CD320 molecule [Source:VGNC Symbol;Acc:VGNC:70763]	1.375305034	0.000134238	0.000594679
ENSMMUG00000064610	long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]	0.668176671	0.006713923	0.019162333
ENSMMUG00000049311	zinc finger protein 558 [Source:NCBI gene;Acc:712590]	0.484723215	0.000108127	0.000489475
ENSMMUG00000019965	methyl-CpG binding domain protein 3 like 1 [Source:VGNC Symbol;Acc:VGNC:74513]	2.186326807	2.78E-05	0.000142988
ENSMMUG00000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	2.183782562	1.60E-31	1.72E-29
ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	1.146948675	2.66E-10	3.18E-09
ENSMMUG00000028889	60S ribosomal protein L21 [Source:NCBI gene;Acc:711174]	0.778544065	0.008081016	0.022535062
ENSMMUG00000037639	complement C3 [Source:NCBI gene;Acc:714514]	0.5674685	0.010025283	0.027100794
ENSMMUG00000017211	peter pan homolog (Drosophila) [Source:NCBI gene;Acc:100533472]	1.734123536	0.01598077	0.040367028
ENSMMUG00000014897	ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]	0.709576574	0.000662826	0.002495484
ENSMMUG00000003110	tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:78680]	0.759396291	1.04E-05	5.81E-05
ENSMMUG00000003111	cell division cycle 37 [Source:NCBI gene;Acc:715390]	0.450581414	0.007266469	0.020502612
ENSMMUG00000005218	kelch like ECH associated protein 1 [Source:VGNC Symbol;Acc:VGNC:73891]	1.390976715	0.000823613	0.003023311
ENSMMUG00000011951	KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]	1.407903159	4.70E-06	2.81E-05
ENSMMUG00000016593	adaptor related protein complex 1 subunit mu 2 [Source:NCBI gene;Acc:720531]	1.671660683	0.005801515	0.016883445
ENSMMUG00000003744	solute carrier family 44 member 2 [Source:VGNC Symbol;Acc:VGNC:77498]	0.891197253	1.37E-07	1.08E-06
ENSMMUG00000014677	dynamamin 2 [Source:VGNC Symbol;Acc:VGNC:71957]	1.081940934	6.68E-05	0.000316224
ENSMMUG00000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	1.337259772	8.01E-12	1.16E-10
ENSMMUG00000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.799909186	2.96E-20	1.07E-18
ENSMMUG00000004400	Yip1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:79717]	-0.76199361	1.45E-05	7.91E-05
ENSMMUG00000003611	low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:74248]	1.047106865	0.001017465	0.003654397
ENSMMUG00000003612	SPC24 component of NDC80 kinetochore complex [Source:VGNC Symbol;Acc:VGNC:78002]	2.197349309	4.97E-06	2.96E-05
ENSMMUG00000023251	KN motif and ankyrin repeat domains 2 [Source:VGNC Symbol;Acc:VGNC:73938]	0.525512172	0.014031213	0.036156194
ENSMMUG00000009334	dedicator of cytokinesis 6 [Source:VGNC Symbol;Acc:VGNC:71863]	0.604401803	0.000581108	0.002220456
ENSMMUG00000043134	coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]	2.163345985	3.46E-10	4.05E-09
ENSMMUG00000022207	phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]	2.259015419	1.93E-11	2.66E-10
ENSMMUG00000010824	SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]	2.813383459	6.51E-21	2.54E-19
ENSMMUG00000038989	erythropoietin receptor [Source:NCBI gene;Acc:714546]	2.696836577	4.62E-11	6.11E-10
ENSMMUG00000010826	ral guanine nucleotide dissociation stimulator like 3 [Source:VGNC Symbol;Acc:VGNC:76869]	1.6260494	2.71E-07	2.03E-06
ENSMMUG00000016505	coiled-coil domain containing 151 [Source:VGNC Symbol;Acc:VGNC:70892]	1.213586219	0.016854823	0.042286759
ENSMMUG00000002974	acid phosphatase 5, tartrate resistant [Source:VGNC Symbol;Acc:VGNC:69384]	2.611371925	7.24E-05	0.000340102
ENSMMUG00000001715	zinc finger protein 627 [Source:VGNC Symbol;Acc:VGNC:79856]	1.166726549	3.12E-10	3.67E-09

ENSMMUG00000053329		1.75173683	3.00E-08	2.62E-07
ENSMMUG00000012587	zinc finger protein 69 [Source:NCBI gene;Acc:717030]	0.750950872	0.000433882	0.001712514
ENSMMUG00000054946	zinc finger protein 433 [Source:NCBI gene;Acc:106992362]	0.875651818	0.015282663	0.038861779
ENSMMUG00000005236	zinc finger protein 709 [Source:NCBI gene;Acc:717515]	1.486465832	2.44E-07	1.84E-06
ENSMMUG00000058614		2.145512905	0.000109513	0.000495145
ENSMMUG00000016860	zinc finger protein 490 [Source:NCBI gene;Acc:100426568]	0.971113455	0.001502446	0.005166072
ENSMMUG00000016862	zinc finger protein 791 [Source:VGNC Symbol;Acc:VGNC:79639]	0.866313721	0.015177264	0.038633509
ENSMMUG00000017971	nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]	1.883817421	1.31E-05	7.22E-05
ENSMMUG00000057038		1.386143009	0.000419533	0.001662661
ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	2.21488186	1.64E-32	2.09E-30
ENSMMUG00000003555	calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]	0.468067445	0.000119055	0.000532926
ENSMMUG00000058941	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.467669936	0.014843686	0.037921078
ENSMMUG00000014137	adhesion G protein-coupled receptor L1 [Source:VGNC Symbol;Acc:VGNC:69658]	0.360944308	0.003318317	0.010368868
ENSMMUG00000060000		1.707099053	0.0001971	0.000841391
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	-1.61438549	2.30E-16	5.58E-15
ENSMMUG00000005729	GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]	1.279829181	1.12E-12	1.83E-11
ENSMMUG00000017906	DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]	2.060606414	2.18E-06	1.39E-05
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	2.936077665	4.22E-26	2.82E-24
ENSMMUG00000060289		3.145402304	2.48E-34	3.91E-32
ENSMMUG00000053889	olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]	1.527757622	3.36E-06	2.05E-05
ENSMMUG00000064639	olfactory receptor 7A10-like [Source:NCBI gene;Acc:114674167]	1.697506569	0.019140396	0.047010944
ENSMMUG00000053457	caspase 14 [Source:NCBI gene;Acc:718049]	2.85472606	2.12E-16	5.15E-15
ENSMMUG00000053220	olfactory receptor 111 [Source:NCBI gene;Acc:719077]	1.787855416	0.00701423	0.019912142
ENSMMUG00000007726	synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]	3.00171754	2.45E-15	5.37E-14
ENSMMUG00000007729	ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]	2.413487833	1.43E-12	2.31E-11
ENSMMUG00000013637	notch receptor 3 [Source:NCBI gene;Acc:719119]	0.832259814	0.004023964	0.012299132
ENSMMUG00000028863	WIZ zinc finger [Source:VGNC Symbol;Acc:VGNC:79901]	0.783481645	0.004768211	0.014265195
ENSMMUG00000016996	cytochrome P450, family 4, subfamily F, polypeptide 22 [Source:NCBI gene;Acc:718303]	0.760529661	4.68E-05	0.000229381
ENSMMUG00000010734	cytochrome P450, family 4, subfamily F, polypeptide 8 [Source:NCBI gene;Acc:718335]	0.686132384	4.45E-07	3.20E-06
ENSMMUG00000056778		3.282818042	0.019743045	0.04832305
ENSMMUG00000057552	hematopoietic SH2 domain containing [Source:NCBI gene;Acc:719440]	3.873544797	3.79E-05	0.000188857
ENSMMUG00000004283	calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]	3.128520838	5.44E-17	1.40E-15
ENSMMUG00000000994	epidermal growth factor receptor pathway substrate 15 like 1 [Source:VGNC Symbol;Acc:VGNC:72100]	2.264069335	6.99E-07	4.88E-06
ENSMMUG00000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.834137379	4.56E-07	3.28E-06
ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]	0.719701033	3.39E-05	0.000170891
ENSMMUG00000018503	NACHT and WD repeat domain containing 1 [Source:NCBI gene;Acc:719640]	0.524445933	0.0007399	0.002743866
ENSMMUG00000057655		0.873891099	1.80E-05	9.69E-05
ENSMMUG00000011588	myosin IXB [Source:HGNC Symbol;Acc:HGNC:7609]	1.05174147	6.57E-09	6.34E-08
ENSMMUG00000013923	BRISC and BRCA1 A complex member 1 [Source:VGNC Symbol;Acc:VGNC:70126]	0.618599001	0.003093282	0.009747849
ENSMMUG00000016228	ankyrin repeat and LEM domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69715]	1.055696984	0.011948022	0.031556397
ENSMMUG00000016231	DET1 and DDB1 associated 1 [Source:VGNC Symbol;Acc:VGNC:71774]	0.942872625	0.016902334	0.042384445

ENSMMUG00000023403	GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]	2.945475906	1.86E-06	1.20E-05
ENSMMUG00000000194	solute carrier family 27 member 1 [Source:VGNC Symbol;Acc:VGNC:77438]	1.010016218	6.31E-09	6.11E-08
ENSMMUG00000000196	niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]	0.992653987	0.00049014	0.001910321
ENSMMUG000000059371		1.385967083	0.000451451	0.001773986
ENSMMUG00000000198	collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]	1.338430442	4.23E-19	1.33E-17
ENSMMUG00000015476	unc-13 homolog A [Source:NCBI gene;Acc:720000]	1.235924824	6.89E-14	1.31E-12
ENSMMUG000000057222	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.579979465	0.011235059	0.029934588
ENSMMUG000000038308	coiled-coil domain containing 124 [Source:NCBI gene;Acc:720072]	-0.59723477	0.009183057	0.02515418
		-		
ENSMMUG00000007398	potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]	1.466151613	1.30E-07	1.03E-06
ENSMMUG00000007401	arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]	1.468709467	1.58E-10	1.94E-09
ENSMMUG00000003161	microtubule associated serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:74533]	0.712057511	0.000285664	0.001172219
		-		
ENSMMUG000000057067	MPV17 mitochondrial inner membrane protein like 2 [Source:NCBI gene;Acc:719413]	1.546126384	0.006164496	0.017806678
		-		
ENSMMUG000000011317	RAB3D, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81542]	1.142200536	0.001246041	0.004383013
		-		
ENSMMUG000000061452		2.025822586	9.34E-05	0.000428946
		-		
ENSMMUG000000005028	phosphodiesterase 4C [Source:NCBI gene;Acc:720171]	0.998464603	4.84E-05	0.00023564
		-		
ENSMMUG000000065139	leucine-rich repeat extensin-like protein 5 [Source:NCBI gene;Acc:721121]	2.997256318	0.003597594	0.011126658
		-		
ENSMMUG000000016354	IQ motif containing N [Source:VGNC Symbol;Acc:VGNC:73683]	1.413337147	1.13E-14	2.34E-13
		-		
ENSMMUG000000038371	JunD proto-oncogene, AP-1 transcription factor subunit [Source:NCBI gene;Acc:720182]	1.361223156	1.98E-05	0.000105451
ENSMMUG000000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	1.188133877	7.74E-11	9.92E-10
ENSMMUG000000016085	KxDL motif containing 1 [Source:NCBI gene;Acc:720235]	1.210138573	2.22E-13	3.94E-12
ENSMMUG000000064485	ubiquitin A-52 residue ribosomal protein fusion product 1 [Source:NCBI gene;Acc:720243]	0.967446019	2.11E-07	1.61E-06
ENSMMUG000000054512		1.52567234	4.26E-07	3.07E-06
ENSMMUG000000009988	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	2.204133193	3.89E-31	4.06E-29
ENSMMUG000000064204	kelch like family member 26 [Source:NCBI gene;Acc:719583]	0.914990631	0.00112992	0.004020326
		-		
ENSMMUG000000006509	CREB regulated transcription coactivator 1 [Source:VGNC Symbol;Acc:VGNC:71418]	1.190843516	3.01E-05	0.000153813
ENSMMUG000000023286	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	2.806384748	2.88E-35	4.86E-33
ENSMMUG000000050739		2.070279334	1.09E-06	7.37E-06
ENSMMUG000000019668	armadillo repeat containing 6 [Source:VGNC Symbol;Acc:VGNC:69899]	0.917035223	0.000357328	0.001438078
		-		
ENSMMUG000000008578	hyaluronan and proteoglycan link protein 4 [Source:VGNC Symbol;Acc:VGNC:73261]	1.123067792	0.00032417	0.001317894
ENSMMUG000000008931	MAU2 sister chromatid cohesion factor [Source:NCBI gene;Acc:720347]	0.640150639	2.44E-08	2.16E-07
		-		
ENSMMUG000000003164	GATA zinc finger domain containing 2A [Source:NCBI gene;Acc:720361]	0.616183274	0.000370185	0.001485748
		-		
ENSMMUG000000011351	YjeF N-terminal domain containing 3 [Source:NCBI gene;Acc:721218]	0.437440522	0.002963442	0.009401585
		-		
ENSMMUG000000048108	PBX homeobox 4 [Source:NCBI gene;Acc:106994668]	2.369327438	0.005246184	0.015448951
		-		
ENSMMUG000000053470	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.126545855	0.001940895	0.006484226
ENSMMUG000000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	1.252333364	3.32E-11	4.46E-10
		-		
ENSMMUG000000056683		0.897039432	0.000396466	0.001580959
		-		
ENSMMUG000000061085		0.795399323	1.37E-07	1.08E-06

ENSMMUG00000062866		-	2.040814197	2.40E-07	1.81E-06
ENSMMUG00000015533	zinc finger protein 493 [Source:NCBI gene;Acc:693611]	-	1.176757306	0.000325686	0.001323267
ENSMMUG00000047027	zinc finger protein 100-like [Source:NCBI gene;Acc:693860]	-	0.983377017	0.000722273	0.002686558
ENSMMUG00000046906		-	0.806162044	5.26E-05	0.000254177
ENSMMUG00000061186		-	0.960537838	1.18E-05	6.53E-05
ENSMMUG00000040273	zinc finger protein 257 [Source:NCBI gene;Acc:694388]	-	1.195256747	0.000150845	0.00065989
ENSMMUG00000063815	zinc finger protein 208-like [Source:NCBI gene;Acc:721315]	-	0.956010442	0.001217345	0.004294296
ENSMMUG00000060408		-	1.503095567	1.99E-05	0.000105729
ENSMMUG00000037794	zinc finger protein 724 [Source:NCBI gene;Acc:698907]	-	0.811863718	0.01211605	0.031926266
ENSMMUG00000003688	zinc finger protein 91 [Source:HGNC Symbol;Acc:HGNC:13166]	-	1.231292667	0.000357338	0.001438078
ENSMMUG00000003645	zinc finger protein 726 [Source:HGNC Symbol;Acc:HGNC:32462]	-	1.942766559	8.46E-05	0.000392392
ENSMMUG00000052284	zinc finger protein 254 [Source:NCBI gene;Acc:114674197]	-	3.839134406	0.002741651	0.008777783
ENSMMUG00000059910		-	0.410209282	0.015355579	0.038980354
ENSMMUG00000051220		-	1.023403918	0.013893455	0.035901715
ENSMMUG00000058669		-	0.879636924	0.013383162	0.03474655
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	-	2.903072577	1.24E-44	6.12E-42
ENSMMUG00000063586	zinc finger protein 536 [Source:NCBI gene;Acc:713142]	-	1.890929012	2.39E-06	1.51E-05
ENSMMUG00000058740		-	-0.90897203	1.97E-07	1.51E-06
ENSMMUG00000057215		-	0.935291656	0.003904736	0.011961899
ENSMMUG00000050177		-	1.975053141	1.18E-08	1.09E-07
ENSMMUG00000060455		-	1.986684001	0.000643848	0.002433921
ENSMMUG00000010840	zinc finger protein 507 [Source:VGNC Symbol;Acc:VGNC:79410]	-	0.826486913	0.00250323	0.008086017
ENSMMUG00000008041	ankyrin repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:69693]	-	0.668811026	9.92E-06	5.57E-05
ENSMMUG00000015608	tudor domain containing 12 [Source:VGNC Symbol;Acc:VGNC:82254]	-	1.291306265	1.56E-06	1.03E-05
ENSMMUG00000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]	-	1.455136475	6.61E-09	6.38E-08
ENSMMUG00000018351	centrosomal protein 89 [Source:VGNC Symbol;Acc:VGNC:71105]	-	0.728134567	0.015201686	0.03867432
ENSMMUG00000017939	FA core complex associated protein 24 [Source:VGNC Symbol;Acc:VGNC:72388]	-	0.858684048	0.003361119	0.010489352
ENSMMUG00000028798	rhopilin Rho GTPase binding protein 2 [Source:NCBI gene;Acc:716602]	-	0.443110125	0.017162109	0.042869139
ENSMMUG00000011790	G-patch domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72996]	-	1.030186067	0.002254029	0.0073677
ENSMMUG00000064983		-	0.733233476	0.009755323	0.026486898
ENSMMUG00000061372		-	0.779371035	0.010765408	0.028802272

ENSMMUG00000006124	CCAAT enhancer binding protein alpha [Source:VGNC Symbol;Acc:VGNC:71000]	-	1.174740429	0.003397806	0.010590472
ENSMMUG000000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]	-	1.245882506	5.04E-05	0.000245021
ENSMMUG00000006128	peptidase D [Source:VGNC Symbol;Acc:VGNC:82205]	-	1.280279333	6.55E-06	3.81E-05
ENSMMUG000000011319	potassium channel tetramerization domain containing 15 [Source:VGNC Symbol;Acc:VGNC:73894]	-	0.800721095	3.06E-05	0.000155798
ENSMMUG000000005880	glucose-6-phosphate isomerase [Source:NCBI gene;Acc:717980]	-	1.322156312	0.006495709	0.018617237
ENSMMUG000000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]	-	2.621761428	3.67E-24	2.03E-22
ENSMMUG000000006440	zinc finger protein 599 [Source:VGNC Symbol;Acc:VGNC:79605]	-	1.97810027	0.002676908	0.008587183
ENSMMUG000000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]	-	0.933436447	1.66E-13	2.99E-12
ENSMMUG000000008313	zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]	-	-0.85438461	2.29E-10	2.76E-09
ENSMMUG000000001538	GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]	-	1.224289509	3.62E-17	9.55E-16
ENSMMUG000000004843	sodium voltage-gated channel beta subunit 1 [Source:VGNC Symbol;Acc:VGNC:76983]	-	1.175816878	1.06E-11	1.50E-10
ENSMMUG000000058405	dermokine [Source:NCBI gene;Acc:718709]	-	0.722205646	0.010481787	0.028160309
ENSMMUG000000018954	RNA binding motif protein 42 [Source:VGNC Symbol;Acc:VGNC:76553]	-	2.075510331	0.015424374	0.039128201
ENSMMUG000000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]	-	1.654663167	2.52E-16	6.07E-15
ENSMMUG000000065025		-	1.754440318	3.45E-21	1.40E-19
ENSMMUG000000002381	lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]	-	0.983121135	5.03E-17	1.31E-15
ENSMMUG000000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]	-	1.870644926	1.51E-19	4.97E-18
ENSMMUG000000048190	U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]	-	1.792660336	4.32E-06	2.60E-05
ENSMMUG000000002386	lin-37 DREAM MuvB core complex component [Source:NCBI gene;Acc:710495]	-	1.072846122	0.012541547	0.032872241
ENSMMUG000000019749	NPHS1 adhesion molecule, nephrin [Source:NCBI gene;Acc:718929]	-	0.903621267	0.000439788	0.001732287
ENSMMUG000000019756	NFKB inhibitor delta [Source:VGNC Symbol;Acc:VGNC:75179]	-	0.946239875	4.56E-06	2.74E-05
ENSMMUG000000008004	transmembrane immune signaling adaptor TYROBP [Source:NCBI gene;Acc:574207]	-	1.089180332	8.40E-12	1.22E-10
ENSMMUG000000062667	leucine rich repeat and fibronectin type III domain containing 3 [Source:NCBI gene;Acc:711565]	-	-0.84194567	0.001695539	0.005748707
ENSMMUG000000062586		-	1.240460561	0.008731164	0.024098858
ENSMMUG000000053233		-	0.873107975	0.004380954	0.013245575
ENSMMUG000000051879	CAP-Gly domain containing linker protein 3 [Source:NCBI gene;Acc:712058]	-	2.296685867	1.81E-05	9.72E-05
ENSMMUG000000019704	WD repeat domain 62 [Source:NCBI gene;Acc:719053]	-	3.776443094	0.00013179	0.000585165
ENSMMUG000000028785	zinc finger protein 146 [Source:VGNC Symbol;Acc:VGNC:78846]	-	2.933762389	1.55E-06	1.02E-05
ENSMMUG000000057189		-	3.025118273	0.001263994	0.004437745
ENSMMUG000000060977	ZFP14 zinc finger protein [Source:NCBI gene;Acc:719135]	-	1.471524719	0.008963544	0.024634795
ENSMMUG000000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]	-	0.967837669	1.09E-05	6.08E-05
ENSMMUG000000022793	zinc finger protein 529 [Source:VGNC Symbol;Acc:VGNC:79801]	-	0.842086529	0.000207092	0.000880243
ENSMMUG000000063196		-	1.058004788	0.007815018	0.02187556
ENSMMUG000000016449	zinc finger protein 382 [Source:VGNC Symbol;Acc:VGNC:79078]	-	0.815080836	0.000512269	0.001988728
ENSMMUG000000062165		-	0.741604947	0.001286663	0.00450986
ENSMMUG000000014214	zinc finger protein 420 [Source:VGNC Symbol;Acc:VGNC:82277]	-	0.576935281	0.000398096	0.001586179
ENSMMUG000000000107	zinc finger protein 585A [Source:NCBI gene;Acc:100424957]	-	0.523530874	0.000756028	0.00279738

ENSMMUG00000011092	zinc finger protein 540 [Source:VGNC Symbol;Acc:VGNC:79490]	-	1.922797404	0.007129734	0.020179525
ENSMMUG00000006820	WD repeat domain 87 [Source:NCBI gene;Acc:719441]	-	0.288753092	0.005711343	0.016653404
ENSMMUG00000028771	Yip1 interacting factor homolog B, membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:79852]	-	1.835273721	4.91E-10	5.64E-09
ENSMMUG00000062296	potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]	-	4.774375229	1.85E-08	1.66E-07
ENSMMUG00000056109	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	4.288944607	6.40E-06	3.73E-05
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	-	3.618635888	2.80E-13	4.90E-12
ENSMMUG00000038221	proteasome 26S subunit, non-ATPase 8 [Source:NCBI gene;Acc:721897]	-	0.638228023	0.000270151	0.001116688
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	-	2.969747519	9.78E-14	1.82E-12
ENSMMUG00000021630	mitogen-activated protein kinase kinase kinase 1 [Source:NCBI gene;Acc:694259]	-	1.901747998	0.011679898	0.030958515
ENSMMUG00000006431	calpain 12 [Source:VGNC Symbol;Acc:VGNC:70473]	-	0.948302755	0.007866067	0.022005377
ENSMMUG00000028766	galectin 4 [Source:VGNC Symbol;Acc:VGNC:74257]	-	1.045800117	0.000224753	0.000947439
ENSMMUG00000004877	heterogeneous nuclear ribonucleoprotein L [Source:VGNC Symbol;Acc:VGNC:81187]	-	0.797509591	0.003169299	0.009966222
ENSMMUG00000012787	acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]	-	1.3076313	0.000177553	0.000764772
ENSMMUG00000005552	PAF1 homolog, Paf1/RNA polymerase II complex component [Source:VGNC Symbol;Acc:VGNC:81492]	-	4.333199605	1.09E-08	1.02E-07
ENSMMUG00000005554	mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]	-	6.151843006	2.20E-83	3.27E-79
ENSMMUG00000038702	ZFP36 ring finger protein [Source:NCBI gene;Acc:722000]	-	6.263417616	4.19E-12	6.35E-11
ENSMMUG00000019369	pleckstrin homology and RhoGEF domain containing G2 [Source:VGNC Symbol;Acc:VGNC:76133]	-	5.598614979	2.68E-17	7.19E-16
ENSMMUG00000019093	delta like canonical Notch ligand 3 [Source:VGNC Symbol;Acc:VGNC:71925]	-	2.911530529	0.001005348	0.003617009
ENSMMUG00000048215		-	4.694008631	8.98E-36	1.62E-33
ENSMMUG00000022726	dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]	-	2.295411435	5.49E-07	3.90E-06
ENSMMUG00000022724		-	1.726145093	0.000275242	0.001135736
ENSMMUG00000051261		-	1.875268527	2.65E-09	2.72E-08
ENSMMUG00000017188	proteasome 26S subunit, ATPase 4 [Source:VGNC Symbol;Acc:VGNC:76448]	-	0.79000709	0.002533825	0.008179499
ENSMMUG00000017191	zinc finger protein 546 [Source:VGNC Symbol;Acc:VGNC:79732]	-	0.889522366	0.001556166	0.005324859
ENSMMUG00000041976	zinc finger protein 780B [Source:NCBI gene;Acc:701034]	-	0.800575318	2.34E-06	1.48E-05
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	-	1.222895469	7.08E-10	7.98E-09
ENSMMUG00000053624		-	1.225707835	1.33E-05	7.34E-05
ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	-	-0.94526901	3.46E-08	2.97E-07
ENSMMUG00000022625	periaxin [Source:VGNC Symbol;Acc:VGNC:76248]	-	1.773399152	7.50E-05	0.000350751
ENSMMUG00000051535		-	1.257945672	0.003356901	0.010480355
ENSMMUG00000063763	cytochrome P450 2A13-like [Source:NCBI gene;Acc:114674219]	-	1.200893675	0.000511713	0.001987612
ENSMMUG00000057008		-	0.637977239	0.016312753	0.041107583
ENSMMUG00000009145	AXL receptor tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:70200]	-	0.803156706	0.00031278	0.001275374
ENSMMUG00000014346	transmembrane protein 91 [Source:NCBI gene;Acc:100426021]	-	1.072057426	0.005793576	0.016866653
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	-	2.002603177	9.09E-26	5.76E-24
ENSMMUG00000022305	Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]	-	1.155063362	3.55E-07	2.60E-06
ENSMMUG00000022309	ETS repressor factor like [Source:NCBI gene;Acc:722195]	-	-1.14017057	0.005334508	0.015687241

ENSMMUG00000017427	ATPase Na ⁺ /K ⁺ transporting subunit alpha 3 [Source:NCBI gene;Acc:706513]	1.623621861	0.000744168	0.002757623
ENSMMUG00000017431	glutamate ionotropic receptor kainate type subunit 5 [Source:VGNC Symbol;Acc:VGNC:73280]	1.138255235	0.000215892	0.000913982
ENSMMUG00000013376	POU class 2 homeobox 2 [Source:NCBI gene;Acc:706835]	1.180454824	1.47E-11	2.06E-10
ENSMMUG00000012174	capicua transcriptional repressor [Source:NCBI gene;Acc:707463]	1.975033636	0.006673078	0.01906043
ENSMMUG00000050799		3.864292876	5.47E-05	0.000263559
ENSMMUG00000055813	pregnancy-specific beta-1-glycoprotein 5-like [Source:NCBI gene;Acc:114674020]	0.922819652	0.000664378	0.002500059
ENSMMUG00000064477	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.431167143	0.015190421	0.038660365
ENSMMUG00000019265	zinc finger protein 575 [Source:VGNC Symbol;Acc:VGNC:79667]	0.732132882	0.005081067	0.015052881
ENSMMUG00000004467	X-ray repair cross complementing 1 [Source:NCBI gene;Acc:711457]	-0.62126163	0.001150298	0.004084991
ENSMMUG00000004615	cell adhesion molecule 4 [Source:VGNC Symbol;Acc:VGNC:70681]	0.339778162	0.014607458	0.037414267
ENSMMUG00000014543	SMG9 nonsense mediated mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:77775]	1.512158804	0.003518783	0.010910212
ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	1.013759089	1.42E-12	2.29E-11
ENSMMUG00000064975	zinc finger protein 221 [Source:NCBI gene;Acc:100423743]	2.612432207	5.63E-10	6.41E-09
ENSMMUG00000047704	zinc finger protein 223 [Source:NCBI gene;Acc:711652]	1.940115199	0.020473972	0.049799739
ENSMMUG00000021469	zinc finger protein 284 [Source:NCBI gene;Acc:713143]	1.032259993	0.01912759	0.046987272
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	2.148206083	1.61E-21	6.80E-20
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	2.205608834	8.44E-32	9.48E-30
ENSMMUG00000012802	zinc finger protein 112 [Source:NCBI gene;Acc:713527]	0.533908513	0.002628094	0.008445207
ENSMMUG00000003273	basal cell adhesion molecule (Lutheran blood group) [Source:NCBI gene;Acc:714568]	0.785923669	5.62E-06	3.31E-05
ENSMMUG00000014303	translocase of outer mitochondrial membrane 40 [Source:VGNC Symbol;Acc:VGNC:78419]	2.918486953	0.001166599	0.004135945
ENSMMUG00000002472	CLPTM1 regulator of GABA type A receptor forward trafficking [Source:VGNC Symbol;Acc:VGNC:71265]	1.485129262	0.001065627	0.003810768
ENSMMUG00000014155	CLK4 associating serine/arginine rich protein [Source:VGNC Symbol;Acc:VGNC:71198]	1.709261101	0.000874944	0.003186498
ENSMMUG00000022931	NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]	1.348442619	1.97E-12	3.13E-11
ENSMMUG00000018879	exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]	0.861087739	2.13E-05	0.000112617
ENSMMUG00000018672	microtubule affinity regulating kinase 4 [Source:VGNC Symbol;Acc:VGNC:74508]	0.430535076	0.001329047	0.004641961
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	3.796175395	5.98E-32	6.87E-30
ENSMMUG00000014419	ERCC excision repair 2, TFIIH core complex helicase subunit [Source:VGNC Symbol;Acc:VGNC:72423]	0.464190843	0.001711578	0.005797784
ENSMMUG00000000715	protein phosphatase 1 regulatory subunit 13 like [Source:NCBI gene;Acc:714389]	0.530049987	8.55E-05	0.000396342
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	-1.5349333	5.98E-11	7.79E-10
ENSMMUG00000000718	ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]	1.108444053	1.72E-07	1.33E-06
ENSMMUG00000053242	outer mitochondrial membrane lipid metabolism regulator OPA3 [Source:NCBI gene;Acc:714806]	2.376749985	0.006051781	0.017518624
ENSMMUG00000019031	G protein-coupled receptor 4 [Source:VGNC Symbol;Acc:VGNC:73136]	3.006479804	0.013805057	0.035698168
ENSMMUG00000019032	EMAP like 2 [Source:NCBI gene;Acc:715009]	2.793378218	0.012652281	0.033133202
ENSMMUG00000006936	gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]	0.747955959	2.91E-05	0.00014907
ENSMMUG00000032809	mml-mir-642 [Source:miRBase;Acc:MI0007885]	0.695433093	0.001933689	0.006468893
ENSMMUG00000006937	small nuclear ribonucleoprotein D2 polypeptide [Source:NCBI gene;Acc:715183]	1.985268649	0.001177815	0.004171722
ENSMMUG00000006940	glutaminy-peptide cyclotransferase like [Source:VGNC Symbol;Acc:VGNC:76540]	1.266276445	3.65E-05	0.000182693

ENSMMUG00000021360	F-box protein 46 [Source:VGNC Symbol;Acc:VGNC:72570]	-	0.819833843	0.002595353	0.00835448
ENSMMUG00000049025	basic helix-loop-helix and HMG-box containing 1 [Source:NCBI gene;Acc:716325]	-	0.627450988	0.007211148	0.020376093
ENSMMUG00000051573	SIX homeobox 5 [Source:NCBI gene;Acc:715373]	-	0.616968575	0.000116657	0.000522823
ENSMMUG00000016457	DM1 protein kinase [Source:NCBI gene;Acc:715328]	-	0.967149274	0.000855552	0.003126623
ENSMMUG00000051115		-	1.745293763	0.000896134	0.00325408
ENSMMUG00000017927	protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]	-	1.884239122	0.005081235	0.015052881
ENSMMUG00000017930	striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]	-	2.501403977	0.004606377	0.013853695
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	-	3.920047098	1.37E-56	2.63E-53
ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.37688954	6.46E-31	6.65E-29
ENSMMUG00000011330	neuronal PAS domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75377]	-	1.26665441	4.85E-06	2.89E-05
ENSMMUG00000057454	transmembrane protein 160 [Source:NCBI gene;Acc:716996]	-	1.554042365	2.64E-06	1.66E-05
ENSMMUG00000014709	zinc finger CCCH-type containing 4 [Source:VGNC Symbol;Acc:VGNC:79094]	-	0.40587636	0.012005086	0.03168454
ENSMMUG00000009506	SUMO1 activating enzyme subunit 1 [Source:NCBI gene;Acc:717918]	-	0.34259136	0.003854894	0.011833592
ENSMMUG00000055893		-	1.373356784	6.86E-07	4.80E-06
ENSMMUG00000012466	BCL2 binding component 3 [Source:NCBI gene;Acc:717955]	-	1.053629393	1.60E-07	1.25E-06
ENSMMUG00000003075	coiled-coil domain containing 9 [Source:VGNC Symbol;Acc:VGNC:70851]	-	1.023858333	3.56E-08	3.05E-07
ENSMMUG00000014718	solute carrier family 8 member A2 [Source:VGNC Symbol;Acc:VGNC:77635]	-	0.344258313	0.005561696	0.016271444
ENSMMUG00000014727	NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]	-	1.186982987	2.53E-10	3.03E-09
ENSMMUG00000054090		-	1.018173582	0.005178295	0.015288497
ENSMMUG00000006857	epididymal sperm binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72046]	-	1.048759807	0.000738614	0.002739782
ENSMMUG00000059158	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.682863993	0.003526228	0.010928726
ENSMMUG00000063571	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.024604612	0.017855858	0.044357433
ENSMMUG00000055107		-	0.430519364	0.001578062	0.005383636
ENSMMUG00000042157	caspase recruitment domain-containing protein 8 [Source:NCBI gene;Acc:718594]	-	0.470847487	0.001322959	0.004621785
ENSMMUG00000022155	sulfotransferase family 2B member 1 [Source:NCBI gene;Acc:718739]	-	0.716406588	0.001114047	0.003970515
ENSMMUG00000064152	netrin 5 [Source:NCBI gene;Acc:718157]	-	0.439370065	0.012527341	0.032840811
ENSMMUG00000055036	MEF2 activating motif and SAP domain containing transcriptional regulator [Source:NCBI gene;Acc:718823]	-	0.548715046	0.001526131	0.005234163
ENSMMUG00000018415	Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]	-	-0.63396857	0.001882377	0.006317187
ENSMMUG00000004019	izumo sperm-egg fusion 1 [Source:VGNC Symbol;Acc:VGNC:73670]	-	1.059672521	0.00013574	0.000600006
ENSMMUG00000028736	hydroxysteroid 17-beta dehydrogenase 14 [Source:NCBI gene;Acc:106994816]	-	1.015671409	0.000134122	0.00059445
ENSMMUG00000009222	pleckstrin homology domain containing A4 [Source:VGNC Symbol;Acc:VGNC:76027]	-	1.107771212	0.005848629	0.017003563
ENSMMUG00000048854	TUB like protein 2 [Source:NCBI gene;Acc:718915]	-	1.480158915	0.000154023	0.000671616
ENSMMUG00000003904	nucleobindin 1 [Source:VGNC Symbol;Acc:VGNC:75548]	-	2.139671758	0.000418381	0.001658981
ENSMMUG00000003911	glycogen synthase 1 [Source:VGNC Symbol;Acc:VGNC:73334]	-	1.889812274	0.004157165	0.012661538
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	-	2.965592261	3.71E-34	5.73E-32
ENSMMUG00000061126	golgi associated olfactory signaling regulator [Source:NCBI gene;Acc:719194]	-	1.262862027	0.005174648	0.015283814
ENSMMUG00000022116	PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]	-	1.581674137	0.000502373	0.001953379

ENSMMUG00000051892	fms related receptor tyrosine kinase 3 ligand [Source:NCBI gene;Acc:719239]	1.515452423	0.000136092	0.000601206
ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]	2.294081051	2.74E-14	5.40E-13
ENSMMUG00000049747	proline rich and Gla domain 2 [Source:NCBI gene;Acc:719318]	0.476680168	0.001428009	0.004939904
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	3.686003646	9.65E-40	2.56E-37
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	3.084293363	1.17E-26	8.49E-25
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]	4.012898316	1.49E-07	1.17E-06
ENSMMUG00000003926	BCL2 like 12 [Source:NCBI gene;Acc:718981]	3.989111168	0.000132372	0.00058757
		-		
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	1.433547359	1.59E-08	1.44E-07
		-		
ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	1.645163377	1.23E-06	8.22E-06
ENSMMUG00000020175	mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]	-1.64594953	0.000114981	0.000516336
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	2.955709441	1.82E-20	6.77E-19
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	3.510078655	2.70E-82	2.00E-78
ENSMMUG00000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]	1.309666077	1.55E-10	1.91E-09
ENSMMUG00000050456	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.733117357	0.007302123	0.020595375
ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.182960904	1.20E-19	4.02E-18
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	3.571748087	2.20E-09	2.29E-08
ENSMMUG00000010837	VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]	2.935136464	1.05E-11	1.50E-10
ENSMMUG00000001427	myosin heavy chain 14 [Source:VGNC Symbol;Acc:VGNC:75006]	2.131037005	1.98E-19	6.41E-18
		-		
ENSMMUG00000055885	napsin-A [Source:NCBI gene;Acc:719235]	1.069257262	0.000290757	0.001190484
ENSMMUG00000023418	nuclear receptor subfamily 1 group H member 2 [Source:VGNC Symbol;Acc:VGNC:75504]	0.741197889	1.10E-05	6.14E-05
ENSMMUG00000006718	ER membrane protein complex subunit 10 [Source:NCBI gene;Acc:719285]	2.697215177	0.005567773	0.016286011
ENSMMUG00000021269	Josephin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73919]	3.298264768	0.006964425	0.019789696
ENSMMUG00000021059	leucine rich repeat containing 4B [Source:VGNC Symbol;Acc:VGNC:74350]	0.610934848	9.03E-05	0.000416172
ENSMMUG00000056558		0.716203259	2.94E-06	1.82E-05
ENSMMUG00000056529	synaptotagmin 3 [Source:NCBI gene;Acc:719650]	2.283648574	0.00025984	0.001080299
ENSMMUG00000046099	chromosome 19 C19orf81 homolog [Source:NCBI gene;Acc:719661]	3.244764979	8.07E-08	6.59E-07
ENSMMUG00000059087		4.310898689	9.51E-09	8.93E-08
ENSMMUG00000012841	kallikrein 3 [Source:NCBI gene;Acc:719444]	1.435458381	3.99E-07	2.89E-06
		-		
ENSMMUG00000065035	kallikrein-2 [Source:NCBI gene;Acc:719436]	0.735710862	0.000243068	0.001017415
ENSMMUG00000060764		0.547286736	1.42E-06	9.37E-06
		-		
ENSMMUG00000028729	kallikrein related peptidase 4 [Source:NCBI gene;Acc:719422]	0.940007552	0.003413021	0.010624498
		-		
ENSMMUG00000013597	kallikrein related peptidase 5 [Source:VGNC Symbol;Acc:VGNC:74191]	0.702623961	0.004898184	0.014601019
		-		
ENSMMUG00000061396	kallikrein related peptidase 6 [Source:NCBI gene;Acc:719776]	1.032995879	0.000112698	0.000507527
ENSMMUG00000015445	kallikrein related peptidase 8 [Source:VGNC Symbol;Acc:VGNC:74194]	-0.61172925	0.014661587	0.037533461
		-		
ENSMMUG00000028728	kallikrein related peptidase 9 [Source:NCBI gene;Acc:100424925]	0.993249958	0.007306714	0.020600487
ENSMMUG00000059154	kallikrein related peptidase 10 [Source:NCBI gene;Acc:106994828]	-1.73909128	0.011970143	0.031609192
		-		
ENSMMUG00000064856	kallikrein related peptidase 14 [Source:NCBI gene;Acc:722692]	1.008237922	0.010206114	0.027544435
		-		
ENSMMUG00000064898	cytosolic thiouridylase subunit 1 [Source:NCBI gene;Acc:719536]	0.973211128	0.000689714	0.002583596
		-		
ENSMMUG00000044243	sialic acid-binding Ig-like lectin 9 [Source:NCBI gene;Acc:719831]	1.142784405	0.005165959	0.015261189
		-		
ENSMMUG00000047370	IgLON family member 5 [Source:NCBI gene;Acc:719890]	1.293315846	0.000207309	0.000880897
		-		
ENSMMUG00000044652	sialic acid-binding Ig-like lectin 13 [Source:NCBI gene;Acc:719667]	0.547349932	0.004052324	0.012367969

ENSMMUG00000062017		-	2.379637277	7.43E-05	0.000348036
ENSMMUG00000012764	zinc finger protein 175 [Source:VGNC Symbol;Acc:VGNC:78856]	-	0.939428449	3.74E-05	0.000186376
ENSMMUG00000012761	sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]	-	-0.52601537	1.98E-05	0.000105451
ENSMMUG00000013053	sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]	-	1.579196074	1.23E-12	2.00E-11
ENSMMUG00000053150	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.134246757	0.015933317	0.040274603
ENSMMUG00000013049	formyl peptide receptor 1 [Source:NCBI gene;Acc:719782]	-	0.905890764	0.002385557	0.007753192
ENSMMUG00000051078		-	0.872677584	1.78E-05	9.58E-05
ENSMMUG00000002310	zinc finger protein 577 [Source:VGNC Symbol;Acc:VGNC:79733]	-	0.696347502	5.82E-06	3.42E-05
ENSMMUG00000023136	zinc finger protein 613 [Source:VGNC Symbol;Acc:VGNC:79548]	-	0.532024427	3.25E-05	0.000164792
ENSMMUG00000052090		-	0.479958404	0.000183438	0.000788061
ENSMMUG00000023137	zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]	-	1.565501091	3.62E-11	4.84E-10
ENSMMUG00000003712	zinc finger protein 615 [Source:VGNC Symbol;Acc:VGNC:79454]	-	-1.11829946	6.71E-05	0.000317334
ENSMMUG00000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	-	1.670876236	4.87E-09	4.79E-08
ENSMMUG00000038056	zinc finger protein 841 [Source:NCBI gene;Acc:720128]	-	-1.6717474	0.015066773	0.038404991
ENSMMUG00000001768	zinc finger protein 616 [Source:NCBI gene;Acc:719902]	-	0.640774861	0.000508227	0.001974589
ENSMMUG00000056763		-	3.083149396	0.003425842	0.010659933
ENSMMUG00000033290	mml-mir-643 [Source:miRBase;Acc:MI0007886]	-	0.781653647	0.000572054	0.002189306
ENSMMUG00000058137	zinc finger protein 816 [Source:NCBI gene;Acc:720058]	-	1.773045791	6.33E-08	5.26E-07
ENSMMUG00000046400	endogenous retrovirus group V, member 1 [Source:NCBI gene;Acc:100428948]	-	1.215100942	0.01154182	0.030636334
ENSMMUG00000064519		-	1.656030753	8.13E-05	0.000378145
ENSMMUG00000058242	zinc finger protein 160 [Source:NCBI gene;Acc:722722]	-	2.383592768	0.011900893	0.031448726
ENSMMUG00000057187		-	0.751722258	4.91E-06	2.93E-05
ENSMMUG00000060222		-	0.333058044	0.013151872	0.034211938
ENSMMUG00000007972	protein kinase C gamma [Source:VGNC Symbol;Acc:VGNC:76413]	-	0.528687267	0.000647054	0.002442925
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	-	1.14197823	3.57E-05	0.000179154
ENSMMUG00000038768	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.614915042	4.87E-05	0.000237302
ENSMMUG00000042225		-	0.521985593	0.001385643	0.004813559

SD 2 vs. Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG0000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]	5.183920678	7.52E-20	5.52E-18
ENSMMUG00000064799		1.711049402	0.001860073	0.007745598
ENSMMUG00000049101	olfactory receptor 2T10 [Source:NCBI gene;Acc:100431025]	0.594080452	0.006834955	0.023395275
		-		
ENSMMUG00000017368	olfactory receptor 2G6 [Source:NCBI gene;Acc:694380]	0.702042117	6.64E-05	0.000414917
ENSMMUG00000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	2.04559061	2.69E-24	2.99E-22
ENSMMUG00000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	0.874760839	5.47E-10	1.01E-08
ENSMMUG00000064763		0.693724414	0.005780996	0.020348267
ENSMMUG0000005949	olfactory receptor 2B11 [Source:NCBI gene;Acc:709256]	-1.29993007	0.005688274	0.020065624
ENSMMUG00000052686		1.16405897	0.005923475	0.020749292
		-		
ENSMMUG00000004566	zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]	3.327315437	0.001729649	0.007279647
		-		
ENSMMUG00000011380	consortin, connexin sorting protein [Source:VGNC Symbol;Acc:VGNC:71355]	4.720062773	3.99E-05	0.0002658
		-		
ENSMMUG00000059690		3.435285327	0.008241502	0.027516471
		-		
ENSMMUG00000000021	catsper channel auxiliary subunit epsilon [Source:VGNC Symbol;Acc:VGNC:70657]	2.945424687	0.000882106	0.004068247
		-		
ENSMMUG00000063991		1.616382556	0.009618613	0.031379213
ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	1.089881152	7.91E-06	6.18E-05
ENSMMUG00000005667	fumarate hydratase [Source:VGNC Symbol;Acc:VGNC:72659]	0.820123226	0.000138154	0.000796327
ENSMMUG00000064824	gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]	1.737101626	6.39E-06	5.09E-05
ENSMMUG00000061845		1.947801872	3.66E-07	3.93E-06
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	1.432684069	7.21E-35	2.76E-32
		-		
ENSMMUG00000015132	galectin 8 [Source:VGNC Symbol;Acc:VGNC:74258]	0.932771259	0.004967085	0.017872901
ENSMMUG00000052225		2.604956735	0.00450172	0.016393164
ENSMMUG00000046785		-1.7305501	0.000386705	0.001967994
		-		
ENSMMUG00000012615	pecanex 2 [Source:NCBI gene;Acc:712828]	1.230815593	0.00021918	0.001201441
ENSMMUG00000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	2.453232218	1.67E-10	3.36E-09
		-		
ENSMMUG00000040055		0.737719895	0.000836644	0.003886956
		-		
ENSMMUG00000061796		1.207922105	6.53E-05	0.000408993
ENSMMUG00000012068	signal induced proliferation associated 1 like 2 [Source:NCBI gene;Acc:100425123]	1.597630175	0.000492963	0.002440804
ENSMMUG00000064226		1.360885497	0.005789978	0.020370017
		-		
ENSMMUG00000016204	translin associated factor X [Source:NCBI gene;Acc:713347]	2.731539136	0.007443354	0.025304967
		-		
ENSMMUG00000005801	glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]	1.564660823	5.22E-12	1.37E-10
		-		
ENSMMUG00000005888	tetratricopeptide repeat domain 13 [Source:VGNC Symbol;Acc:VGNC:79588]	0.466041065	0.006382789	0.02209205
ENSMMUG00000009508	TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]	1.539030577	0.003967597	0.014747367
ENSMMUG00000005185	regulator of G protein signaling 4 [Source:VGNC Symbol;Acc:VGNC:76690]	2.909444243	0.00564514	0.019952199
ENSMMUG00000005186	regulator of G protein signaling 5 [Source:NCBI gene;Acc:693510]	0.770362216	0.012507851	0.038976769
		-		
ENSMMUG00000023462	immunoglobulin like domain containing receptor 2 [Source:VGNC Symbol;Acc:VGNC:73619]	1.880538726	0.001291078	0.005637851
		-		
ENSMMUG00000023463	maelstrom spermatogenic transposon silencer [Source:VGNC Symbol;Acc:VGNC:74362]	1.952309665	0.003611531	0.013640121

ENSMMUG00000063120	cellular repressor of E1A stimulated genes 1 [Source:NCBI gene;Acc:701021]	-	0.499265064	0.002039366	0.008407603
ENSMMUG00000023372	RCSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76850]	-	0.661381597	0.00126773	0.005550901
ENSMMUG00000009184	myelin protein zero like 1 [Source:NCBI gene;Acc:698437]	-	2.073877945	2.93E-08	3.88E-07
ENSMMUG00000060218	chemokine (C motif) ligand 1 [Source:NCBI gene;Acc:574367]	-	4.98232562	6.70E-08	8.32E-07
ENSMMUG00000056707		-	1.657810554	0.002098361	0.008614517
ENSMMUG00000059777		-	0.676296382	1.48E-05	0.000108536
ENSMMUG00000021078	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70176]	-	1.005717704	0.003905291	0.01454926
ENSMMUG00000021079	NME/NM23 family member 7 [Source:VGNC Symbol;Acc:VGNC:75221]	-	1.211340786	6.00E-05	0.000379955
ENSMMUG00000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]	-	1.275320581	4.74E-33	1.32E-30
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]	-	0.689988341	2.11E-08	2.86E-07
ENSMMUG00000013039	solute carrier family 19 member 2 [Source:VGNC Symbol;Acc:VGNC:81571]	-	0.566065915	7.32E-06	5.78E-05
ENSMMUG00000042510	coagulation factor V [Source:NCBI gene;Acc:704695]	-	0.913152943	4.75E-07	4.96E-06
ENSMMUG00000013044	selectin P [Source:VGNC Symbol;Acc:VGNC:77157]	-	1.206591521	5.55E-07	5.71E-06
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]	-	2.33408769	2.03E-26	3.01E-24
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]	-	2.441864301	1.13E-31	2.73E-29
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	-	1.373552403	2.69E-09	4.35E-08
ENSMMUG00000059773	methyltransferase like 11B [Source:NCBI gene;Acc:705503]	-	1.264920679	0.001646783	0.006979384
ENSMMUG00000063298		-	1.014461481	0.001067249	0.004781077
ENSMMUG00000014674	golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]	-	1.052454039	2.18E-08	2.95E-07
ENSMMUG00000007279	phosphatidylinositol glycan anchor biosynthesis class C [Source:VGNC Symbol;Acc:VGNC:75986]	-	0.712212069	0.000936191	0.004283731
ENSMMUG00000065134	Fas ligand [Source:NCBI gene;Acc:574159]	-	4.339549147	5.35E-06	4.35E-05
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]	-	0.449763852	8.28E-05	0.00050528
ENSMMUG00000000630	ring finger and CCCH-type domains 1 [Source:VGNC Symbol;Acc:VGNC:76861]	-	0.534929885	4.07E-06	3.40E-05
ENSMMUG00000064770		-	0.951425015	0.003158858	0.012154664
ENSMMUG00000000546	KIAA0040 ortholog [Source:NCBI gene;Acc:100423509]	-	-0.92251083	0.00029036	0.001532571
ENSMMUG00000015723	tenascin R [Source:VGNC Symbol;Acc:VGNC:78609]	-	0.893596724	0.011346257	0.035973946
ENSMMUG00000023216	astrotactin 1 [Source:VGNC Symbol;Acc:VGNC:70167]	-	-0.58678464	0.000874432	0.004039282
ENSMMUG00000022935	BMP/retinoic acid inducible neural specific 2 [Source:VGNC Symbol;Acc:VGNC:70303]	-	0.639030675	0.000853343	0.003955689
ENSMMUG00000020320	protein transport protein Sec16B [Source:NCBI gene;Acc:709635]	-	0.47265303	0.00537906	0.019132713
ENSMMUG00000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	-	2.349096963	9.06E-16	4.32E-14
ENSMMUG00000056058	C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]	-	2.994345656	2.21E-05	0.000156356
ENSMMUG00000054486	testis expressed 35 [Source:NCBI gene;Acc:717255]	-	2.311587114	0.001115804	0.004964934
ENSMMUG00000055256	family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]	-	1.185753197	8.35E-09	1.24E-07
ENSMMUG00000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	-	1.213282777	6.94E-10	1.26E-08
ENSMMUG00000053617	torsin 1A interacting protein 2 [Source:NCBI gene;Acc:716691]	-	0.463092292	0.009915493	0.032217597
ENSMMUG00000014873	torsin 1A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79810]	-	0.460977536	0.001219837	0.00536896
ENSMMUG00000054568		-	1.121160441	4.10E-06	3.42E-05
ENSMMUG00000061785		-	1.120064891	5.44E-19	3.75E-17
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	-	2.8836619	1.70E-07	1.97E-06
ENSMMUG00000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	-	1.307077169	7.14E-14	2.49E-12
ENSMMUG00000005634	ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]	-	1.053424566	6.46E-09	9.80E-08

ENSMMUG00000055481	regulator of G protein signaling 16 [Source:NCBI gene;Acc:715599]	0.706897883	0.000731881	0.003449805
ENSMMUG00000008990	regulator of G protein signaling 8 [Source:NCBI gene;Acc:720353]	2.553992504	0.001685435	0.007122435
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	1.886600245	2.70E-09	4.36E-08
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	3.398208368	5.72E-08	7.20E-07
ENSMMUG00000013878	ring finger protein 2 [Source:NCBI gene;Acc:717024]	1.062396609	0.000196023	0.001085145
ENSMMUG00000016857	prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]	1.022212515	1.32E-09	2.26E-08
ENSMMUG00000059986		1.015338042	1.56E-05	0.000113954
ENSMMUG00000062021		1.026832918	0.000963062	0.004385973
ENSMMUG00000022647	cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]	1.067165007	1.31E-06	1.23E-05
ENSMMUG00000021082	potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]	0.729079785	4.28E-08	5.50E-07
ENSMMUG00000045497	complement factor H [Source:NCBI gene;Acc:717346]	1.135734228	6.34E-05	0.000398565
ENSMMUG00000000244	coagulation factor XIII B chain [Source:VGNC Symbol;Acc:VGNC:72463]	0.628472069	0.001459785	0.006269097
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	3.023444452	4.35E-14	1.62E-12
ENSMMUG00000012218	calmodulin regulated spectrin associated protein family member 2 [Source:VGNC Symbol;Acc:VGNC:70666]	0.737470518	0.004014258	0.014883234
ENSMMUG00000017414	calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]	-1.60348404	5.94E-10	1.09E-08
ENSMMUG00000064915	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.990308797	3.58E-05	0.000240295
ENSMMUG00000050920	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.215378646	0.003672433	0.013834194
ENSMMUG00000021642	fibromodulin [Source:VGNC Symbol;Acc:VGNC:72686]	0.897366575	0.015735223	0.047068224
ENSMMUG00000055783		-1.83327105	2.07E-05	0.000146873
ENSMMUG00000064841	golgi transport 1A [Source:NCBI gene;Acc:700305]	-2.80726475	0.008651632	0.028727451
ENSMMUG00000017114	pleckstrin homology domain containing A6 [Source:VGNC Symbol;Acc:VGNC:76040]	-1.48342277	5.27E-05	0.000339208
ENSMMUG00000063658	leucine rich repeat neuronal 2 [Source:NCBI gene;Acc:100429709]	1.28493269	0.000432073	0.002179406
ENSMMUG00000054201	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-1.91671099	0.00520953	0.018602538
ENSMMUG00000001024	ETS transcription factor ELK4 [Source:VGNC Symbol;Acc:VGNC:72211]	-1.54053313	0.001262	0.005534146
ENSMMUG00000004116	solute carrier family 45 member 3 [Source:VGNC Symbol;Acc:VGNC:77817]	1.528332821	0.003208844	0.012317657
ENSMMUG00000055835	nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]	1.179456665	3.76E-07	4.02E-06
ENSMMUG00000023570	interleukin 19 [Source:NCBI gene;Acc:694806]	3.742371896	0.00089386	0.004114644
ENSMMUG00000011221	Fc fragment of IgA and IgM receptor [Source:VGNC Symbol;Acc:VGNC:72567]	1.084544549	0.009155177	0.030162714
ENSMMUG00000040888	complement C3b/C4b receptor 1 like [Source:HGNC Symbol;Acc:HGNC:2335]	0.983259927	1.83E-08	2.52E-07
ENSMMUG00000051230		0.695056689	0.001220269	0.00536896
ENSMMUG00000057560		0.846364771	1.26E-06	1.18E-05
ENSMMUG00000064202		1.122399821	0.000177148	0.000992751
ENSMMUG00000045482	G0/G1 switch 2 [Source:NCBI gene;Acc:717581]	0.450573241	5.14E-07	5.32E-06
ENSMMUG00000016099	hedgehog acyltransferase [Source:NCBI gene;Acc:712333]	1.315244432	0.001264179	0.005542029
ENSMMUG00000011914	prospero homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76427]	3.244098013	3.60E-05	0.000241744
ENSMMUG00000015634	centromere protein F [Source:VGNC Symbol;Acc:VGNC:71009]	-2.17105515	0.000299115	0.001569761
ENSMMUG00000058133		1.887606245	0.000225634	0.001229861

ENSMMUG00000017396	3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]	0.728338606	0.01041944	0.033525322
ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	0.974736505	8.90E-13	2.61E-11
ENSMMUG00000026897	mml-mir-215 [Source:miRBase;Acc:MI0003025]	1.305962497	0.011327861	0.035930409
ENSMMUG00000007784	RAB3 GTPase activating non-catalytic protein subunit 2 [Source:VGNC Symbol;Acc:VGNC:76499]	0.378715103	0.015350745	0.046136124
ENSMMUG00000022288	microtubule affinity regulating kinase 1 [Source:VGNC Symbol;Acc:VGNC:74658]	2.22378655	0.000336654	0.001742237
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	0.907935522	1.52E-10	3.09E-09
ENSMMUG00000008638	CDC42 binding protein kinase alpha [Source:VGNC Symbol;Acc:VGNC:70799]	0.472349166	5.86E-05	0.000372483
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	0.748571746	1.48E-12	4.19E-11
ENSMMUG00000019513	U2AF homology motif kinase 1 [Source:VGNC Symbol;Acc:VGNC:79198]	2.008942035	0.001400723	0.006054727
ENSMMUG00000042262	nitric oxide synthase 1 adaptor protein [Source:NCBI gene;Acc:720378]	0.991744039	0.00060953	0.0029421
ENSMMUG00000004790	spermatogenesis associated 46 [Source:VGNC Symbol;Acc:VGNC:78006]	3.362455509	0.015149634	0.045634112
ENSMMUG00000023042	olfactomedin like 2B [Source:VGNC Symbol;Acc:VGNC:75455]	0.472074233	0.000144886	0.000832166
ENSMMUG00000004049	activating transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:70171]	0.370354702	0.000577952	0.002806175
ENSMMUG00000004042	Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]	2.057239677	4.62E-06	3.80E-05
ENSMMUG00000054686		3.136689124	7.56E-24	7.79E-22
ENSMMUG00000008251	cilia and flagella associated protein 126 [Source:VGNC Symbol;Acc:VGNC:71150]	2.85443535	2.00E-05	0.000142637
ENSMMUG00000012411	succinate dehydrogenase complex subunit C [Source:VGNC Symbol;Acc:VGNC:77147]	2.072832034	0.004628515	0.016791794
ENSMMUG00000018128	nuclear receptor subfamily 1 group I member 3 [Source:NCBI gene;Acc:574249]	1.112355534	0.000441966	0.002224673
ENSMMUG00000060496	translocase of outer mitochondrial membrane 40 like [Source:NCBI gene;Acc:100426891]	1.236033472	9.74E-05	0.000582658
ENSMMUG00000004516	apolipoprotein A2 [Source:NCBI gene;Acc:719946]	1.303845284	0.002638909	0.010395347
ENSMMUG00000004512	Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]	1.569468957	3.84E-10	7.35E-09
ENSMMUG00000004520	NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]	1.230007433	2.53E-08	3.40E-07
ENSMMUG00000050419	ADAM metallopeptidase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]	1.416009281	1.11E-06	1.06E-05
ENSMMUG00000060555		1.364117462	6.32E-06	5.06E-05
ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]	1.247724069	6.38E-06	5.09E-05
ENSMMUG00000022631	ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]	1.210593004	0.000191073	0.001061442
ENSMMUG00000022632	ubiquitin-fold modifier conjugating enzyme 1 [Source:VGNC Symbol;Acc:VGNC:79643]	0.852538157	0.000678097	0.003234086
ENSMMUG00000002007	kelch domain containing 9 [Source:NCBI gene;Acc:719863]	0.802272785	0.006408398	0.022149044
ENSMMUG00000064337	nectin cell adhesion molecule 4 [Source:NCBI gene;Acc:719843]	0.681834512	0.000775745	0.003624493
ENSMMUG00000002005	Rho GTPase activating protein 30 [Source:NCBI gene;Acc:718236]	0.673790898	0.000755176	0.003544719
ENSMMUG00000002003	upstream transcription factor 1 [Source:NCBI gene;Acc:719835]	0.743572749	9.68E-05	0.000579822
ENSMMUG00000011335	Fc receptor like 6 [Source:VGNC Symbol;Acc:VGNC:72602]	0.646241805	1.09E-08	1.59E-07
ENSMMUG00000004492	absent in melanoma 2 [Source:NCBI gene;Acc:719260]	1.106692523	0.00049229	0.002438302
ENSMMUG00000060051	olfactory receptor 6N1-like [Source:NCBI gene;Acc:719970]	0.741277515	0.002280707	0.009230134
ENSMMUG00000010626	CD1c molecule [Source:VGNC Symbol;Acc:VGNC:70756]	1.475265489	0.002708237	0.010614623
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	1.196718292	4.88E-16	2.40E-14
ENSMMUG00000050541		0.650995103	0.016869909	0.049835826

ENSMMUG00000019835	CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]	1.158416134	6.30E-07	6.37E-06
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.164750556	1.03E-14	4.06E-13
ENSMMUG00000019830	Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]	1.153656	9.29E-08	1.12E-06
ENSMMUG00000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	1.264432255	6.94E-09	1.05E-07
ENSMMUG00000008973	Fc receptor like 4 [Source:VGNC Symbol;Acc:VGNC:72527]	1.151166464	0.006767524	0.023224621
		-		
ENSMMUG00000008974	Fc receptor like 5 [Source:NCBI gene;Acc:718771]	1.711097499	8.74E-12	2.20E-10
ENSMMUG00000042886	ETS variant transcription factor 3 [Source:NCBI gene;Acc:719741]	0.850900624	0.006833961	0.023395275
ENSMMUG00000064007	leucine rich repeat containing 71 [Source:NCBI gene;Acc:718714]	0.224112581	0.014915505	0.04505958
		-		
ENSMMUG00000000037	interferon stimulated exonuclease gene 20 like 2 [Source:NCBI gene;Acc:718621]	1.087062765	0.005133661	0.018369293
		-		
ENSMMUG00000060011	hyaluronan and proteoglycan link protein 2 [Source:NCBI gene;Acc:718500]	2.231799345	0.002044606	0.008422341
		-		
ENSMMUG00000004648	KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]	0.850627008	5.39E-07	5.55E-06
		-		
ENSMMUG00000009987	GON-4-like protein [Source:NCBI gene;Acc:719341]	0.689168648	0.015735817	0.047068224
ENSMMUG00000062397		1.062770273	3.28E-07	3.56E-06
ENSMMUG00000023146	ASH1 like histone lysine methyltransferase [Source:NCBI gene;Acc:717778]	1.096075564	0.006838276	0.023401133
		-		
ENSMMUG00000023145	RUN and SH3 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77036]	0.858252247	0.009441868	0.030924165
		-		
ENSMMUG00000023143	pyruvate kinase L/R [Source:VGNC Symbol;Acc:VGNC:76011]	2.182437857	0.002789472	0.010918296
		-		
ENSMMUG00000061381	hyperpolarization activated cyclic nucleotide gated potassium channel 3 [Source:NCBI gene;Acc:717719]	1.715132485	0.003438244	0.013080805
ENSMMUG00000023141	CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]	-1.02836651	0.000104516	0.00062065
ENSMMUG00000003902	thrombospondin 3 [Source:VGNC Symbol;Acc:VGNC:78345]	1.650910644	2.67E-06	2.32E-05
		-		
ENSMMUG00000010978	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]	0.803550213	5.12E-09	7.88E-08
		-		
ENSMMUG00000010979	S100 calcium binding protein A4 [Source:VGNC Symbol;Acc:VGNC:76958]	0.527962844	0.005091024	0.0182466
		-		
ENSMMUG00000010980	S100 calcium binding protein A5 [Source:VGNC Symbol;Acc:VGNC:76959]	1.095742065	0.002554672	0.010136873
		-		
ENSMMUG00000008917	S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]	0.773910023	1.84E-05	0.000131591
		-		
ENSMMUG00000040678	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.155181552	0.003439301	0.013081402
ENSMMUG00000051645		3.282140284	1.27E-06	1.20E-05
ENSMMUG00000061474		1.771065535	2.46E-05	0.000171881
ENSMMUG00000036441		2.841683229	0.010448232	0.033600545
ENSMMUG00000042618	involucrin [Source:NCBI gene;Acc:713728]	1.815114049	1.18E-05	8.94E-05
ENSMMUG00000017740	sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]	2.5524791	5.91E-08	7.41E-07
ENSMMUG00000055038		2.553580048	4.45E-09	6.91E-08
ENSMMUG00000054634	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]	2.602533034	0.003523995	0.013347659
ENSMMUG00000051719	late cornified envelope 1C [Source:HGNC Symbol;Acc:HGNC:29464]	2.665963207	2.60E-05	0.000180273
ENSMMUG00000058472	late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]	1.990828071	3.90E-06	3.28E-05
ENSMMUG00000056940	late cornified envelope protein 1C [Source:NCBI gene;Acc:713408]	2.700482829	2.08E-05	0.000147386
ENSMMUG00000055266	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]	2.688971816	8.89E-08	1.07E-06
ENSMMUG00000051816	keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]	2.128953349	6.59E-08	8.19E-07
ENSMMUG00000001966	chromosome 1 C1orf68 homolog [Source:VGNC Symbol;Acc:VGNC:70436]	1.799987177	0.006658559	0.02291017
ENSMMUG00000049843	late cornified envelope protein 2D [Source:NCBI gene;Acc:100424118]	3.849368225	1.04E-05	7.92E-05
ENSMMUG00000062996		2.63102025	2.61E-07	2.89E-06
ENSMMUG00000001967	late cornified envelope 5A [Source:VGNC Symbol;Acc:VGNC:74061]	2.537882644	0.005990007	0.020936941
ENSMMUG00000009040	cornulin [Source:VGNC Symbol;Acc:VGNC:71397]	2.517407335	2.35E-07	2.63E-06

ENSMMUG00000056511		2.324057821	5.87E-07	6.00E-06
ENSMMUG00000059472	filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]	1.853103173	1.53E-08	2.15E-07
		-		
ENSMMUG00000010067	MINDY lysine 48 deubiquitinase 1 [Source:VGNC Symbol;Acc:VGNC:74828]	2.028230077	0.015576972	0.046698791
ENSMMUG00000008218	ADAMTS like 4 [Source:VGNC Symbol;Acc:VGNC:69480]	1.07508721	1.05E-05	8.02E-05
		-		
ENSMMUG00000021388	circadian associated repressor of transcription [Source:VGNC Symbol;Acc:VGNC:71345]	0.531798248	0.014216043	0.043356122
		-		
ENSMMUG00000021387	chromosome 1 C1orf54 homolog [Source:VGNC Symbol;Acc:VGNC:70396]	0.703047939	0.007480613	0.025407866
		-		
ENSMMUG00000021385	carbonic anhydrase 14 [Source:VGNC Symbol;Acc:VGNC:70489]	0.440790478	0.001916782	0.007956672
		-		
ENSMMUG00000007244	OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]	1.101902983	2.14E-08	2.90E-07
		-		
ENSMMUG00000052282		1.360717906	7.43E-09	1.11E-07
		-		
ENSMMUG00000007246	myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]	1.099709032	1.47E-08	2.08E-07
ENSMMUG00000007256	splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]	-1.28255906	3.47E-09	5.50E-08
		-		
ENSMMUG00000007257	synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]	1.035907471	2.24E-11	5.20E-10
		-		
ENSMMUG00000061036	histone cluster 2, H2ab [Source:NCBI gene;Acc:705170]	1.457098258	0.001126874	0.005011124
		-		
ENSMMUG00000037540	histone cluster 2, H2ac [Source:NCBI gene;Acc:705054]	1.384507697	0.004233813	0.01556968
ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]	-1.42424592	9.29E-15	3.73E-13
		-		
ENSMMUG00000054615		1.136293764	7.56E-05	0.000467389
		-		
ENSMMUG00000051523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.082656899	0.002810838	0.010990089
		-		
ENSMMUG00000054078	histone H3 [Source:NCBI gene;Acc:114669830]	1.097540753	8.41E-05	0.000512441
		-		
ENSMMUG00000040506	H2B clustered histone 18 [Source:HGNC Symbol;Acc:HGNC:24700]	0.983165821	0.000354946	0.001825204
		-		
ENSMMUG00000004362	Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]	1.072411782	3.97E-06	3.32E-05
		-		
ENSMMUG00000062140		1.303918595	4.42E-07	4.66E-06
		-		
ENSMMUG00000024186	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.681000328	0.000100883	0.000600794
		-		
ENSMMUG00000036857	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.619839111	0.001993044	0.008244987
		-		
ENSMMUG00000064626	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.645098309	0.000762679	0.003576472
		-		
ENSMMUG00000061239		1.415493801	3.43E-12	9.20E-11
		-		
ENSMMUG00000054590		1.297549494	5.96E-09	9.09E-08
		-		
ENSMMUG00000054496	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.384076257	0.010772532	0.034447931
		-		
ENSMMUG00000048493	neuroblastoma breakpoint family member 6-like protein [Source:NCBI gene;Acc:711999]	2.764071741	0.009479176	0.031021789
		-		
ENSMMUG00000041725	60S ribosomal protein L6-like [Source:NCBI gene;Acc:710287]	1.912406978	0.009952705	0.032295193
		-		
ENSMMUG00000049105	NRAS proto-oncogene, GTPase [Source:NCBI gene;Acc:709089]	1.398108084	0.000715899	0.003384398
ENSMMUG00000001978	adenosine monophosphate deaminase 1 [Source:VGNC Symbol;Acc:VGNC:69806]	-0.68513364	1.67E-05	0.000120707

ENSMMUG00000021535	homeodomain interacting protein kinase 1 [Source:VGNC Symbol;Acc:VGNC:73420]	-	0.199488966	0.015604394	0.046771355
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	-	2.725579808	6.24E-79	9.06E-75
ENSMMUG00000019527	DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]	-	1.249162058	2.31E-05	0.000162733
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	-	1.167961683	4.94E-07	5.14E-06
ENSMMUG00000017819	putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]	-	1.062095441	7.26E-07	7.22E-06
ENSMMUG00000017817	membrane associated guanylate kinase, WW and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74400]	-	0.507907975	0.003193757	0.012266222
ENSMMUG00000007766	suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]	-	1.348813123	9.08E-09	1.34E-07
ENSMMUG00000007765	Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]	-	1.167163759	1.67E-12	4.72E-11
ENSMMUG000000037458	endoplasmic reticulum resident protein 29 [Source:NCBI gene;Acc:720396]	-	1.787614633	0.001332403	0.00579394
ENSMMUG00000050825	potassium voltage-gated channel subfamily D member 3 [Source:NCBI gene;Acc:641437]	-	0.569716516	5.02E-06	4.10E-05
ENSMMUG00000065322	ATP synthase peripheral stalk-membrane subunit b [Source:NCBI gene;Acc:704072]	-	0.611927237	1.02E-06	9.84E-06
ENSMMUG00000016056	potassium voltage-gated channel subfamily A member 10 [Source:VGNC Symbol;Acc:VGNC:73963]	-	0.498518317	0.000510423	0.002519531
ENSMMUG00000062177		-	0.533574065	1.04E-05	7.96E-05
ENSMMUG00000064173	prokineticin 1 [Source:NCBI gene;Acc:701766]	-	1.260828833	0.000400394	0.002030888
ENSMMUG00000022715	adenosylhomocysteinase like 1 [Source:VGNC Symbol;Acc:VGNC:81350]	-	0.463858396	0.004014388	0.014883234
ENSMMUG00000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	-	0.746945996	9.41E-13	2.74E-11
ENSMMUG00000005812	sortilin 1 [Source:VGNC Symbol;Acc:VGNC:77836]	-	0.363004825	3.31E-05	0.00022412
ENSMMUG00000008713	myosin binding protein H like [Source:NCBI gene;Acc:698183]	-	-1.12628142	1.61E-18	1.03E-16
ENSMMUG00000015380	proline and serine rich coiled-coil 1 [Source:VGNC Symbol;Acc:VGNC:76307]	-	0.883227875	1.77E-09	2.96E-08
ENSMMUG00000015375	cadherin EGF LAG seven-pass G-type receptor 2 [Source:VGNC Symbol;Acc:VGNC:71149]	-	-0.87139498	1.55E-10	3.16E-09
ENSMMUG00000021837	seryl-tRNA synthetase 1 [Source:NCBI gene;Acc:695046]	-	0.879207523	1.13E-05	8.58E-05
ENSMMUG00000017266	UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]	-	1.348248907	5.54E-07	5.69E-06
ENSMMUG00000010156	fibronectin type III domain containing 7 [Source:VGNC Symbol;Acc:VGNC:72582]	-	0.47542484	0.006812908	0.023336297
ENSMMUG00000042232	NBPF member 6 [Source:NCBI gene;Acc:698524]	-	0.304806945	0.000246842	0.001330492
ENSMMUG00000031785		-	0.951846644	0.001492675	0.006393344
ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]	-	1.376492012	0.000479245	0.002381806
ENSMMUG00000019714	vav guanine nucleotide exchange factor 3 [Source:VGNC Symbol;Acc:VGNC:78759]	-	1.500946894	0.003112986	0.012003576
ENSMMUG00000008197	netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]	-	2.097310805	1.52E-06	1.40E-05
ENSMMUG00000060795		-	1.767187763	2.36E-06	2.08E-05
ENSMMUG00000061766		-	1.587072229	0.004438644	0.016216276
ENSMMUG00000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	-	1.7937565	7.72E-45	8.63E-42
ENSMMUG00000060790		-	3.374574504	0.000522502	0.00256956
ENSMMUG00000022906	vascular cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:78761]	-	0.476521083	0.003341051	0.012761128
ENSMMUG00000062643		-	1.822981731	0.011216246	0.035616113
ENSMMUG00000055443	G protein-coupled receptor 88 [Source:NCBI gene;Acc:716520]	-	0.61948814	7.66E-07	7.57E-06
ENSMMUG00000019105	RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]	-	1.979246256	2.22E-06	1.96E-05
ENSMMUG00000007706	dihydrolipoamide branched chain transacylase E2 [Source:VGNC Symbol;Acc:VGNC:71744]	-	1.836457226	0.001860961	0.007747075

ENSMMUG0000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]	1.968350371	1.28E-06	1.20E-05
ENSMMUG00000021441	amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase [Source:VGNC Symbol;Acc:VGNC:69744]	0.417892166	0.006772856	0.023227606
ENSMMUG00000038667		1.062436923	0.0021725	0.008871248
ENSMMUG00000008518	phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]	1.774568889	2.22E-24	2.48E-22
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]	0.884740137	4.28E-08	5.50E-07
ENSMMUG00000049494		1.572890796	1.93E-07	2.20E-06
ENSMMUG00000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]	1.576897775	1.71E-15	7.84E-14
ENSMMUG00000049297		1.093513756	1.92E-09	3.18E-08
ENSMMUG00000050661		0.733726032	0.000253037	0.001358845
ENSMMUG00000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]	1.248483325	5.16E-10	9.59E-09
ENSMMUG00000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]	0.581093937	1.00E-06	9.68E-06
ENSMMUG00000032677	microRNA 760 [Source:HGNC Symbol;Acc:HGNC:33666]	0.622394921	0.002419172	0.009682681
ENSMMUG00000045959		0.879693885	2.92E-05	0.000199874
ENSMMUG00000015924	BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]	0.807770394	2.98E-06	2.57E-05
ENSMMUG00000015922	formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]	0.805251008	1.58E-08	2.20E-07
ENSMMUG00000016812	coiled-coil domain containing 18 [Source:VGNC Symbol;Acc:VGNC:70913]	-0.70987559	0.000728017	0.003434984
ENSMMUG00000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]	1.783753952	2.23E-16	1.12E-14
ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]	2.309640447	6.79E-06	5.40E-05
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]	-2.77788796	1.49E-31	3.55E-29
ENSMMUG00000051155	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	4.300439592	3.83E-05	0.000255695
ENSMMUG00000006819	helicase for meiosis 1 [Source:NCBI gene;Acc:704516]	0.756158276	0.000221966	0.001213055
ENSMMUG00000007635	zinc finger protein 644 [Source:VGNC Symbol;Acc:VGNC:79789]	1.366909039	0.009237313	0.030373855
ENSMMUG00000049678		2.257310028	4.01E-11	8.96E-10
ENSMMUG00000060600		0.818634893	0.000566276	0.002754085
ENSMMUG00000053737	BarH like homeobox 2 [Source:NCBI gene;Acc:696831]	0.987881951	1.45E-08	2.05E-07
ENSMMUG00000000663	guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]	1.116043142	1.29E-05	9.62E-05
ENSMMUG00000000662	guanylate-binding protein 1 [Source:NCBI gene;Acc:694538]	0.610570824	0.000218311	0.001197129
ENSMMUG00000037887	RBMX like 1 [Source:NCBI gene;Acc:100424767]	0.821784137	5.35E-06	4.35E-05
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	2.121769339	1.89E-37	9.49E-35
ENSMMUG00000020588	protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]	0.632525703	2.31E-07	2.59E-06
ENSMMUG00000065295		2.236989968	1.41E-12	3.99E-11
ENSMMUG00000006836	chloride channel accessory 1 [Source:NCBI gene;Acc:574295]	1.88692002	4.07E-10	7.75E-09
ENSMMUG00000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]	2.26454911	2.42E-05	0.000169301
ENSMMUG00000013203	zinc finger HIT-type containing 6 [Source:VGNC Symbol;Acc:VGNC:79576]	0.779236848	0.004422544	0.016165581
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	0.699514617	1.28E-11	3.11E-10
ENSMMUG00000005720	BCL10 immune signaling adaptor [Source:VGNC Symbol;Acc:VGNC:70240]	0.451606802	0.004307891	0.015822086
ENSMMUG00000010127	chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]	2.770253735	4.05E-11	9.02E-10
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	1.832091692	6.59E-18	3.93E-16
ENSMMUG00000059938		-1.21077825	0.000530654	0.00260278
ENSMMUG00000000404	uricase [Source:NCBI gene;Acc:714004]	1.425538297	0.006114777	0.021289917
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	1.208698077	8.30E-25	9.97E-23

ENSMMUG00000057763		-	1.348248024	0.000109275	0.000644955
ENSMMUG00000050832		-	2.971104451	0.002334942	0.00940072
ENSMMUG00000023345	adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]	-	1.022702398	0.009027368	0.029804871
ENSMMUG00000049326	GIPC PDZ domain containing family member 2 [Source:NCBI gene;Acc:707432]	-	0.577556135	0.00091748	0.004207382
ENSMMUG00000050425	DnaJ heat shock protein family (Hsp40) member B4 [Source:NCBI gene;Acc:707206]	-	0.486401602	0.001489572	0.006381936
ENSMMUG00000017312	zinc finger RANBP2-type containing 2 [Source:NCBI gene;Acc:703513]	-	0.763648064	1.93E-06	1.73E-05
ENSMMUG00000017309	prostaglandin E receptor 3 [Source:VGNC Symbol;Acc:VGNC:76469]	-	0.374329119	0.010185257	0.032917535
ENSMMUG00000041837	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.202936784	0.006178246	0.021470991
ENSMMUG00000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	-	1.678361949	4.33E-17	2.37E-15
ENSMMUG00000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]	-	0.876377471	2.28E-14	8.83E-13
ENSMMUG00000017259	DnaJ heat shock protein family (Hsp40) member C6 [Source:NCBI gene;Acc:698682]	-	0.695746574	0.011539899	0.036421083
ENSMMUG00000053254	adenylate kinase 4 [Source:NCBI gene;Acc:698560]	-	0.60136139	7.48E-06	5.89E-05
ENSMMUG00000053072		-	0.520851295	0.01141011	0.036136988
ENSMMUG00000018565	ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]	-	2.928197826	2.34E-07	2.62E-06
ENSMMUG00000012538	ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]	-	1.463286525	1.72E-09	2.89E-08
ENSMMUG00000056799		-	1.033629676	0.00131486	0.005734812
ENSMMUG00000004668	receptor tyrosine kinase like orphan receptor 1 [Source:VGNC Symbol;Acc:VGNC:76715]	-	1.210342797	5.99E-06	4.82E-05
ENSMMUG000000061816		-	1.321031262	5.16E-06	4.21E-05
ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]	-	0.681505292	1.58E-06	1.45E-05
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	-	-1.15649817	1.27E-07	1.51E-06
ENSMMUG00000010351	KN motif and ankyrin repeat domains 4 [Source:VGNC Symbol;Acc:VGNC:73916]	-	0.609211742	0.000895215	0.004119578
ENSMMUG00000055834		-	1.642409548	0.000775084	0.003622955
ENSMMUG00000011800	Myb like, SWIRM and MPN domains 1 [Source:VGNC Symbol;Acc:VGNC:75039]	-	0.643667554	4.46E-06	3.69E-05
ENSMMUG00000022762	OMA1 zinc metallopeptidase [Source:VGNC Symbol;Acc:VGNC:75485]	-	-2.04588	1.08E-12	3.12E-11
ENSMMUG000000049840		-	0.438848196	0.005687746	0.020065624
ENSMMUG00000010406	protein kinase AMP-activated catalytic subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:76400]	-	3.467024737	0.000752635	0.003533934
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]	-	1.556721606	5.28E-20	3.96E-18
ENSMMUG00000059612		-	0.453267962	6.82E-05	0.000424389
ENSMMUG00000032084	prolyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:75707]	-	0.560112119	0.00031422	0.001638972
ENSMMUG00000006754	tetratricopeptide repeat domain 4 [Source:VGNC Symbol;Acc:VGNC:78668]	-	0.788607016	0.000121892	0.000712485
ENSMMUG00000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	-	2.292821921	3.43E-15	1.49E-13
ENSMMUG00000015371	microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]	-	1.089162171	1.40E-05	0.000103634
ENSMMUG00000005986	Kruppel like factor 17 [Source:NCBI gene;Acc:702810]	-	1.361825298	0.000772534	0.003615673
ENSMMUG00000015555	ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]	-	2.474290606	2.60E-12	7.09E-11
ENSMMUG00000012479	lysine demethylase 4A [Source:NCBI gene;Acc:701272]	-	2.332541421	0.008790661	0.029135851
ENSMMUG00000053498		-	1.665386135	4.02E-05	0.000267454
ENSMMUG00000059313	small vasohibin binding protein [Source:NCBI gene;Acc:698308]	-	3.635977736	0.007491363	0.025426556
ENSMMUG00000016111	chromosome 1 C1orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70432]	-	2.502655377	0.000680296	0.003243512

ENSMMUG00000022381	prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]	2.209647193	0.000238559	0.001289193
ENSMMUG00000057076	claudin 19 [Source:NCBI gene;Acc:697807]	4.459521216	1.17E-05	8.85E-05
ENSMMUG00000013129	peptidylprolyl isomerase H [Source:NCBI gene;Acc:697669]	1.771355103	0.001951345	0.008086287
ENSMMUG00000013128	coiled-coil domain containing 30 [Source:VGNC Symbol;Acc:VGNC:70866]	0.535008661	0.00346255	0.013149188
ENSMMUG00000014138	forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]	1.696034915	4.99E-06	4.08E-05
ENSMMUG00000052046		0.46182866	0.001752469	0.007358647
ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]	1.043496692	7.61E-06	5.96E-05
ENSMMUG00000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	1.947085905	3.50E-17	1.94E-15
ENSMMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	0.899471093	3.92E-07	4.17E-06
ENSMMUG00000018664	collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]	1.168018519	2.31E-06	2.04E-05
ENSMMUG00000005992	zinc metalloproteinase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]	1.012026729	0.014106345	0.043089713
ENSMMUG00000009189	palmitoyl-protein thioesterase 1 [Source:VGNC Symbol;Acc:VGNC:76386]	0.492182604	1.46E-05	0.000107468
ENSMMUG00000009188	cyclase associated actin cytoskeleton regulatory protein 1 [Source:NCBI gene;Acc:693719]	0.324908743	0.002745087	0.010752761
ENSMMUG00000058881	bone morphogenetic protein 8b [Source:NCBI gene;Acc:100427030]	1.052316822	0.006313409	0.02189342
ENSMMUG00000008419	G protein nucleolar 2 [Source:VGNC Symbol;Acc:VGNC:73037]	-1.15382911	0.00098943	0.004487784
ENSMMUG00000059855	Smad nuclear interacting protein 1 [Source:NCBI gene;Acc:713733]	0.990384061	9.22E-05	0.000555077
ENSMMUG00000010323	zinc finger CCCH-type containing 12A [Source:VGNC Symbol;Acc:VGNC:79595]	0.627577482	0.002885542	0.011251911
ENSMMUG00000017338	LSM10, U7 small nuclear RNA associated [Source:VGNC Symbol;Acc:VGNC:74307]	1.170885795	0.000566192	0.002754085
ENSMMUG00000058709		1.127163841	0.012009501	0.037657919
ENSMMUG00000014622	thyroid hormone receptor associated protein 3 [Source:NCBI gene;Acc:713033]	0.468335099	0.007529136	0.025513893
ENSMMUG00000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	1.800142327	1.81E-19	1.29E-17
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	-1.49838142	3.23E-12	8.70E-11
ENSMMUG00000019815	transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]	2.637670525	3.68E-05	0.000246583
ENSMMUG00000002741	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]	4.557896224	2.13E-08	2.90E-07
ENSMMUG00000006389	zinc finger and SCAN domain containing 20 [Source:VGNC Symbol;Acc:VGNC:78895]	4.799198893	2.70E-07	2.98E-06
ENSMMUG00000062949		4.526453738	4.58E-05	0.000301179
ENSMMUG00000003269	polyhomeotic homolog 2 [Source:VGNC Symbol;Acc:VGNC:75903]	2.100635229	0.016899025	0.049860183
ENSMMUG00000003268	alpha 1,3-galactosyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:69550]	1.197826976	0.006687456	0.022993269
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	1.101527781	5.54E-07	5.69E-06
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	1.13419023	1.66E-08	2.31E-07
ENSMMUG00000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	1.228597584	7.82E-22	7.10E-20
ENSMMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]	1.238471348	6.87E-10	1.25E-08
ENSMMUG00000044265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.042634238	6.98E-07	7.00E-06
ENSMMUG00000054846	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.99681375	0.00370935	0.013951571
ENSMMUG00000055316		3.392343745	0.002080353	0.008550212
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]	3.718208506	3.55E-06	3.01E-05
ENSMMUG00000053323		2.870732302	0.00311865	0.012022228
ENSMMUG00000009951	MARCKS like 1 [Source:VGNC Symbol;Acc:VGNC:74723]	-3.58669018	0.00175323	0.007359717
ENSMMUG00000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	2.496469585	5.91E-16	2.85E-14
ENSMMUG00000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	2.122725576	6.32E-22	5.78E-20

ENSMMUG00000060894	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.660649812	0.006866139	0.023485425
ENSMMUG00000046901	protein tyrosine phosphatase 4A2 [Source:NCBI gene;Acc:706489]	-	0.848739548	0.000641708	0.003075672
ENSMMUG00000005466	SPOC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77997]	-	0.911876452	4.48E-06	3.71E-05
ENSMMUG00000023401	adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]	-	0.583323556	0.002974552	0.011540183
ENSMMUG00000023398	collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]	-	0.652516737	6.79E-05	0.000423202
ENSMMUG00000023397	penta-EF-hand domain containing 1 [Source:NCBI gene;Acc:706038]	-	0.793018756	9.92E-05	0.000592297
ENSMMUG00000060319	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.647259331	0.015765323	0.04714678
ENSMMUG00000013188	serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]	-	0.524521359	0.004241983	0.015595779
ENSMMUG00000049574	antizyme inhibitor 2-like [Source:NCBI gene;Acc:705256]	-	-0.5391386	0.000804552	0.003748643
ENSMMUG00000012156	zinc finger CCHC-type containing 17 [Source:VGNC Symbol;Acc:VGNC:79840]	-	0.410617195	0.008957167	0.029591648
ENSMMUG00000064353	fatty acid binding protein 3 [Source:NCBI gene;Acc:717237]	-	0.590033033	0.000489277	0.002425034
ENSMMUG00000063979		-	-0.71123276	2.81E-11	6.45E-10
ENSMMUG00000057452		-	0.716132916	0.00398478	0.014799886
ENSMMUG00000051008		-	2.291488115	0.005817157	0.020440902
ENSMMUG00000057173		-	2.453075287	0.00104301	0.004692737
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	-	1.977963053	1.09E-05	8.29E-05
ENSMMUG00000007110	serine and arginine rich splicing factor 4 [Source:NCBI gene;Acc:717401]	-	1.697809197	0.005787268	0.020365412
ENSMMUG00000016893	solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]	-	0.853657733	2.45E-06	2.15E-05
ENSMMUG00000015115	terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]	-	0.850747293	1.81E-05	0.000130153
ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	-	0.818150795	5.78E-06	4.67E-05
ENSMMUG00000050286		-	0.578021691	0.012770539	0.03960856
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	-	1.437678009	6.27E-08	7.82E-07
ENSMMUG00000012697	AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]	-	2.333545907	1.41E-18	9.12E-17
ENSMMUG00000056266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.69394658	1.64E-06	1.50E-05
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	-	2.107176517	9.71E-12	2.42E-10
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	-	2.141381501	8.51E-11	1.80E-09
ENSMMUG00000032217	transmembrane protein 50A [Source:VGNC Symbol;Acc:VGNC:79857]	-	0.426728345	0.001588458	0.006755824
ENSMMUG00000057953		-	0.80821742	0.002580447	0.010206767
ENSMMUG00000057675	non-compact myelin associated protein [Source:NCBI gene;Acc:712192]	-	0.882617512	0.005831092	0.020470076
ENSMMUG00000053036		-	1.227532406	4.55E-05	0.000299136
ENSMMUG00000022927	RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]	-	1.008114538	0.002559974	0.010148445
ENSMMUG00000004463	grainyhead like transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:73235]	-	0.587235085	0.006314859	0.02189342
ENSMMUG00000050770		-	1.214766852	1.99E-08	2.72E-07
ENSMMUG00000059931		-	0.531228002	0.001066696	0.004780072
ENSMMUG00000057438	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.203407407	0.002488737	0.009922865

ENSMMUG00000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]	1.844343068	4.36E-14	1.62E-12
ENSMMUG00000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	-1.89751663	4.60E-14	1.69E-12
ENSMMUG00000058332	testis expressed 46 [Source:NCBI gene;Acc:709002]	2.478569537	6.58E-07	6.62E-06
ENSMMUG00000041482	lactamase beta like 1 [Source:NCBI gene;Acc:718590]	1.089110603	0.000467307	0.002332871
ENSMMUG00000023382	EPH receptor B2 [Source:NCBI gene;Acc:718570]	0.402070329	0.009220396	0.030345685
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	1.48737092	2.25E-23	2.23E-21
ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	1.494647068	1.66E-20	1.33E-18
ENSMMUG00000002492	transmembrane and coiled-coil domains 4 [Source:VGNC Symbol;Acc:VGNC:79664]	2.21482983	0.016225039	0.048293078
ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]	0.834893408	1.33E-07	1.57E-06
ENSMMUG00000006669	ubiquitin protein ligase E3 component n-recognin 4 [Source:VGNC Symbol;Acc:VGNC:79845]	0.504923801	0.001813654	0.007580532
ENSMMUG00000004754	intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]	-0.95403352	2.67E-06	2.32E-05
ENSMMUG00000064850	kelch domain containing 7A [Source:NCBI gene;Acc:713771]	0.818124442	0.002845731	0.011105607
ENSMMUG00000010849	Rho guanine nucleotide exchange factor 10 like [Source:VGNC Symbol;Acc:VGNC:69908]	0.371068864	0.004016265	0.014886396
ENSMMUG00000022437	peptidyl arginine deiminase 6 [Source:VGNC Symbol;Acc:VGNC:75657]	2.790303792	0.001619787	0.006881016
ENSMMUG00000051619	peptidyl arginine deiminase 3 [Source:NCBI gene;Acc:700560]	0.482635238	0.004376882	0.016026886
ENSMMUG00000007315	ciliary rootlet coiled-coil, rootletin [Source:NCBI gene;Acc:710793]	0.51357763	0.000221884	0.001213055
ENSMMUG00000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	0.988855028	7.28E-07	7.24E-06
ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	0.90943284	1.42E-05	0.000104626
ENSMMUG00000018235	chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]	0.798014398	0.006935905	0.023712899
ENSMMUG00000001910	heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]	1.159446521	0.000785052	0.003662485
ENSMMUG00000001911	steroid receptor associated and regulated protein [Source:VGNC Symbol;Acc:VGNC:78008]	0.686387991	0.006886276	0.023548763
ENSMMUG00000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.167145113	2.05E-05	0.000145714
ENSMMUG00000002802	agmatinase [Source:NCBI gene;Acc:713190]	0.907149258	0.005988267	0.020936941
ENSMMUG00000032244	DnaJ heat shock protein family (Hsp40) member C16 [Source:NCBI gene;Acc:700894]	1.464714619	0.00020394	0.001123835
ENSMMUG00000018163	caspase 9 [Source:NCBI gene;Acc:694544]	2.522459533	0.000877397	0.004050403
ENSMMUG00000031821	chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]	1.985851401	3.07E-05	0.000209346
ENSMMUG00000053550		2.981859179	0.000171699	0.000964821
ENSMMUG00000060541		1.599770512	0.00367366	0.013835231
ENSMMUG00000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]	1.397452167	2.26E-05	0.000159416
ENSMMUG00000053824	leucine rich repeat containing 38 [Source:NCBI gene;Acc:722785]	0.807576804	0.000107366	0.000635495
ENSMMUG00000055233	PRAME family member 17-like [Source:NCBI gene;Acc:100427847]	0.758253515	2.05E-06	1.83E-05
ENSMMUG00000054309	PRAME family member 5 [Source:NCBI gene;Acc:722781]	1.429737927	0.003358748	0.012818619
ENSMMUG00000057550		0.670390402	0.005478933	0.01943564
ENSMMUG00000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	1.077447632	1.97E-20	1.56E-18
ENSMMUG00000064242		1.096753698	3.09E-06	2.66E-05
ENSMMUG00000063313	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	0.939365336	0.008335995	0.027787286
ENSMMUG00000021447	TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]	4.518816117	0.000102123	0.000607432

ENSMMUG00000023449	mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]	1.492974674	2.11E-05	0.000149318
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	1.19474072	3.19E-15	1.40E-13
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	0.89933786	2.75E-09	4.42E-08
ENSMMUG00000062316	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.114786139	1.36E-09	2.33E-08
ENSMMUG00000037413	U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]	1.061112791	7.91E-09	1.18E-07
ENSMMUG00000051669		0.83289674	2.87E-07	3.15E-06
ENSMMUG00000002261	F-box protein 2 [Source:VGNC Symbol;Acc:VGNC:72486]	-		
ENSMMUG00000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	1.879861522	0.00377904	0.014169693
ENSMMUG00000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	-		
ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	1.109810132	5.92E-15	2.47E-13
ENSMMUG00000053062	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.126090759	2.26E-16	1.13E-14
ENSMMUG00000006187	angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]	-		
ENSMMUG00000062294		1.426589293	1.29E-15	5.98E-14
ENSMMUG00000058771	PHD finger protein 13 [Source:NCBI gene;Acc:704846]	-		
ENSMMUG00000032281	zinc finger and BTB domain containing 48 [Source:VGNC Symbol;Acc:VGNC:79959]	2.149327511	0.000991719	0.004496763
ENSMMUG00000023681	nucleolar protein 9 [Source:VGNC Symbol;Acc:VGNC:75263]	-		
ENSMMUG00000023678	pleckstrin homology and RhoGEF domain containing G5 [Source:VGNC Symbol;Acc:VGNC:76130]	1.194313774	2.07E-09	3.41E-08
ENSMMUG00000023676	espin [Source:NCBI gene;Acc:722532]	4.096021279	5.02E-05	0.000325485
ENSMMUG00000016838	chromodomain helicase DNA binding protein 5 [Source:VGNC Symbol;Acc:VGNC:70959]	-		
ENSMMUG00000055126		1.165341029	0.001780466	0.007467579
ENSMMUG00000056383		-		
ENSMMUG00000054719		0.846871058	0.002279898	0.009229428
ENSMMUG00000032284	leucine rich repeat containing 47 [Source:VGNC Symbol;Acc:VGNC:74388]	0.853360071	0.009920858	0.03222655
ENSMMUG00000050239		1.107311428	4.42E-05	0.000291708
ENSMMUG00000014075	cilia and flagella associated protein 74 [Source:NCBI gene;Acc:709689]	-		
ENSMMUG00000010879	NAD kinase [Source:VGNC Symbol;Acc:VGNC:75047]	1.318336509	4.60E-14	1.69E-12
ENSMMUG00000005578	solute carrier family 35 member E2 [Source:VGNC Symbol;Acc:VGNC:77590]	-1.07298184	0.002113203	0.008663178
ENSMMUG0000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]	1.421902636	4.54E-05	0.000298676
ENSMMUG00000012961	mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]	0.790967036	0.012131783	0.037975824
ENSMMUG00000048805		-		
ENSMMUG00000040063	fibronectin type III domain containing 10 [Source:NCBI gene;Acc:106996973]	0.917892279	8.95E-05	0.00054158
ENSMMUG00000060167		3.534980101	0.00039589	0.002010147
ENSMMUG0000001551	SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]	-		
ENSMMUG00000051354		1.603780875	7.18E-08	8.86E-07
		-		
		1.025141874	0.009183685	0.030238557
		-		
		0.657126992	0.015728475	0.047065634
		-		
		0.931248863	0.002308891	0.009318252
		-		
		1.071523306	0.000173279	0.000972943
		-		
		0.697600506	0.0023025	0.009297621
		-		
		1.002515611	1.35E-05	0.0001007
		-1.0961752	0.004670551	0.016918965
		-		
		0.999794772	0.000107005	0.000633616
		-		
		1.010135373	4.61E-07	4.85E-06
		-		
		1.408906884	0.004096039	0.015128078

ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]	-	0.890824371	1.10E-09	1.90E-08
ENSMMUG000000064596	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674454]	-	1.105869022	0.000566837	0.002755887
ENSMMUG00000006904	cyclin L2 [Source:NCBI gene;Acc:114669744]	-	0.614920779	0.015263461	0.045910395
ENSMMUG000000032292	sodium channel epithelial 1 delta subunit [Source:VGNC Symbol;Acc:VGNC:76993]	-	1.270869162	0.001584573	0.006743247
ENSMMUG000000045769	tubulin tyrosine ligase like 10 [Source:NCBI gene;Acc:702662]	-	0.466182519	3.07E-06	2.64E-05
ENSMMUG000000056613		-	0.66122497	6.18E-07	6.26E-06
ENSMMUG00000000972	tyrosine kinase non receptor 2 [Source:VGNC Symbol;Acc:VGNC:79192]	-	2.737336207	3.45E-09	5.49E-08
ENSMMUG000000053601		-	1.794710264	0.007568232	0.025621655
ENSMMUG000000065323		-	2.828021491	0.010810971	0.034555648
ENSMMUG000000022562	interleukin 1 receptor accessory protein [Source:VGNC Symbol;Acc:VGNC:73718]	-	3.205877375	6.13E-05	0.000387055
ENSMMUG00000006596	CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]	-	1.20127459	4.10E-08	5.30E-07
ENSMMUG000000049551		-	1.453451417	1.39E-05	0.000103324
ENSMMUG000000055585		-	2.418540418	3.10E-13	9.70E-12
ENSMMUG000000000056	5-azacytidine induced 2 [Source:VGNC Symbol;Acc:VGNC:70115]	-	0.887826538	0.010770332	0.034447931
ENSMMUG000000051896		-	3.108348758	0.002903146	0.011308424
ENSMMUG000000060958	leucine rich repeat containing 3B [Source:NCBI gene;Acc:701323]	-	1.340063914	0.008233866	0.027497291
ENSMMUG000000051809		-	1.905199657	0.014761141	0.04470473
ENSMMUG000000009667	zinc finger protein 385D [Source:VGNC Symbol;Acc:VGNC:79587]	-	2.224899808	0.005621875	0.019903848
ENSMMUG000000051975		-	1.948170236	1.61E-09	2.72E-08
ENSMMUG000000020761	ELL associated factor 1 [Source:VGNC Symbol;Acc:VGNC:71874]	-	3.29018252	0.012897139	0.039958591
ENSMMUG000000020377	collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]	-	0.817967605	1.30E-05	9.72E-05
ENSMMUG000000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	-	2.807690425	2.59E-12	7.06E-11
ENSMMUG000000001154	U8 snoRNA-decapping enzyme-like [Source:NCBI gene;Acc:717946]	-	0.641900156	0.002556693	0.010140968
ENSMMUG000000024125	small nucleolar RNA, H/ACA box 58 [Source:HGNC Symbol;Acc:HGNC:32652]	-	4.015143316	0.000497708	0.002460107
ENSMMUG000000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	-	1.374895371	1.14E-08	1.65E-07
ENSMMUG000000056585		-	1.982805388	5.71E-05	0.000364289
ENSMMUG000000016004	acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]	-	1.295250873	4.67E-05	0.000306327
ENSMMUG000000016005	DnaJ heat shock protein family (Hsp40) member C13 [Source:VGNC Symbol;Acc:VGNC:84191]	-	0.382572623	3.89E-09	6.08E-08
ENSMMUG000000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	-	1.448324212	5.71E-12	1.49E-10
ENSMMUG000000019854	transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]	-	0.841449743	0.000936758	0.004284975
ENSMMUG000000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	-	0.872109689	0.000220312	0.001206583
ENSMMUG000000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]	-	0.776362505	0.006018612	0.02102176
ENSMMUG000000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	-	0.747955515	4.63E-05	0.000304098

ENSMMUG0000008916	transferrin [Source:VGNC Symbol;Acc:VGNC:82716]	-	0.642129151	0.000770898	0.003609195
ENSMMUG0000008918	SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]	-	0.601195027	0.006788112	0.023273297
ENSMMUG0000007760	centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]	-	0.501657688	0.001078081	0.00481977
ENSMMUG0000003051	COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]	-	0.694212648	1.91E-05	0.00013638
ENSMMUG00000062527		-	1.606476566	3.59E-09	5.67E-08
ENSMMUG00000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-	1.904818557	4.27E-11	9.46E-10
ENSMMUG00000053344	splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]	-	2.091268435	8.32E-06	6.45E-05
ENSMMUG00000057297		-	1.665986517	0.000493818	0.002444204
ENSMMUG00000056024		-	2.027563254	8.25E-24	8.44E-22
ENSMMUG00000063351	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.626115551	1.47E-09	2.49E-08
ENSMMUG0000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	-	2.537044139	4.56E-27	7.39E-25
ENSMMUG00000052474		-	2.75953418	2.78E-29	6.12E-27
ENSMMUG00000011134	transcription factor Dp-2 [Source:VGNC Symbol;Acc:VGNC:78324]	-	0.390590702	0.00509025	0.0182466
ENSMMUG00000012151	glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]	-	2.663397759	2.83E-06	2.44E-05
ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	-	4.109184164	1.62E-19	1.17E-17
ENSMMUG00000009694	solute carrier family 9 member A9 [Source:VGNC Symbol;Acc:VGNC:77747]	-	1.969409111	0.000357806	0.001837312
ENSMMUG00000017055	divergent protein kinase domain 2A [Source:VGNC Symbol;Acc:VGNC:71781]	-	0.861232467	0.00384095	0.014357214
ENSMMUG00000049859		-	-1.60907937	8.05E-11	1.72E-09
ENSMMUG00000062175	carboxypeptidase B1 [Source:NCBI gene;Acc:712639]	-	0.655774765	0.003073249	0.011872646
ENSMMUG00000005519	carboxypeptidase A3 [Source:VGNC Symbol;Acc:VGNC:71456]	-	0.803576286	2.62E-05	0.000181629
ENSMMUG00000059895		-	0.801930937	0.000514125	0.002535224
ENSMMUG00000005521	glycogenin 1 [Source:VGNC Symbol;Acc:VGNC:73332]	-	0.740913661	1.74E-06	1.58E-05
ENSMMUG00000005526	helicase like transcription factor [Source:VGNC Symbol;Acc:VGNC:73383]	-	0.625270132	0.003340252	0.012761128
ENSMMUG00000047621	transmembrane 4 L six family member 18 [Source:VGNC Symbol;Acc:VGNC:82713]	-	0.538455028	1.55E-08	2.17E-07
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]	-	2.155427891	7.21E-34	2.19E-31
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	2.483514479	3.10E-11	7.07E-10
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]	-	1.370442877	7.21E-07	7.17E-06
ENSMMUG00000059788		-	0.562639589	5.45E-05	0.000350385
ENSMMUG00000048232	MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]	-	0.737470669	0.000119488	0.000700122
ENSMMUG00000038998	purinergic receptor P2Y13 [Source:VGNC Symbol;Acc:VGNC:83950]	-	0.637175121	0.003074947	0.011872646
ENSMMUG00000001105	purinergic receptor P2Y12 [Source:VGNC Symbol;Acc:VGNC:75642]	-	0.406518026	0.012524535	0.039020395
ENSMMUG00000057501		-	1.929199575	2.50E-08	3.35E-07
ENSMMUG00000031537		-	2.156693835	0.016877598	0.049835826
ENSMMUG00000061194		-	1.291782148	1.23E-05	9.24E-05
ENSMMUG00000061684		-	1.221811259	3.20E-05	0.000217656
ENSMMUG00000053540		-	1.821461223	0.0027457	0.010752761
ENSMMUG00000031540	purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]	-	5.074248819	2.12E-06	1.88E-05
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]	-	0.853768026	4.54E-29	9.70E-27
ENSMMUG00000051847		-	1.002542335	0.016337709	0.048568769
ENSMMUG00000060572		-	0.834651987	4.49E-05	0.000295925
ENSMMUG00000056116		-	1.564527264	1.94E-10	3.88E-09

ENSMMUG00000009564	NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]	1.801708474	0.001132688	0.005029286
ENSMMUG000000063228		2.027353124	0.012249772	0.038290689
ENSMMUG000000042979		1.957337081	0.010108861	0.03269244
ENSMMUG000000055530	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.307553423	0.012111963	0.037930118
ENSMMUG00000001302	sucrase-isomaltase [Source:VGNC Symbol;Acc:VGNC:77213]	0.693978772	5.68E-09	8.71E-08
ENSMMUG000000023045	zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]	1.771006076	0.00037244	0.001901709
ENSMMUG000000005939	serpin family I member 1 [Source:VGNC Symbol;Acc:VGNC:77366]	0.872032162	0.014858854	0.044935128
ENSMMUG000000020734	golgi integral membrane protein 4 [Source:VGNC Symbol;Acc:VGNC:72945]	0.300068808	0.00764691	0.025868774
ENSMMUG000000051641		1.088676722	1.15E-05	8.70E-05
ENSMMUG000000063303	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.685231651	0.015786992	0.047192165
ENSMMUG000000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]	1.544066528	2.21E-11	5.17E-10
ENSMMUG000000056664	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.745920972	0.004024619	0.014913557
ENSMMUG000000023289	phospholipase D1 [Source:VGNC Symbol;Acc:VGNC:76171]	2.308120518	0.011551155	0.036440787
ENSMMUG000000040869	spermatogenesis associated 16 [Source:VGNC Symbol;Acc:VGNC:84073]	0.61354614	0.003432144	0.013066063
ENSMMUG000000045509	N-acetylated alpha-linked acidic dipeptidase like 2 [Source:VGNC Symbol;Acc:VGNC:83927]	1.359681292	0.002948726	0.011467531
ENSMMUG000000014426	potassium calcium-activated channel subfamily M regulatory beta subunit 2 [Source:VGNC Symbol;Acc:VGNC:84158]	1.445882024	0.004738559	0.017139693
ENSMMUG000000003216	zinc finger matrin-type 3 [Source:VGNC Symbol;Acc:VGNC:79831]	1.206526623	0.010686411	0.0342177
ENSMMUG000000003594	ubiquitin specific peptidase 13 [Source:VGNC Symbol;Acc:VGNC:78735]	0.782727604	1.70E-06	1.55E-05
ENSMMUG000000064088	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	0.512150157	0.00346424	0.01315217
ENSMMUG000000003595	peroxisomal biogenesis factor 5 like [Source:VGNC Symbol;Acc:VGNC:75889]	1.427219908	0.014138602	0.043158794
ENSMMUG000000001456	MCF.2 cell line derived transforming sequence-like 2 [Source:VGNC Symbol;Acc:VGNC:74624]	3.961844076	0.00069253	0.003292123
ENSMMUG000000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]	1.567559291	5.52E-35	2.17E-32
ENSMMUG000000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]	0.964776111	3.22E-09	5.13E-08
ENSMMUG000000013846	5-hydroxytryptamine receptor 3C [Source:VGNC Symbol;Acc:VGNC:84171]	0.631136254	0.00725663	0.024710619
ENSMMUG000000006553	dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]	1.227322264	1.88E-05	0.000134345
ENSMMUG000000018955	EEF1A lysine methyltransferase 4 [Source:NCBI gene;Acc:106996971]	0.300727774	0.005913059	0.020722793
ENSMMUG000000000800	proteasome 26S subunit, non-ATPase 2 [Source:VGNC Symbol;Acc:VGNC:84144]	0.434318004	0.000144771	0.000831988
ENSMMUG000000010934	eukaryotic translation initiation factor 4 gamma 1 [Source:VGNC Symbol;Acc:VGNC:72195]	0.431983049	0.000296756	0.001560897
ENSMMUG000000007503	family with sequence similarity 131 member A [Source:VGNC Symbol;Acc:VGNC:72385]	0.398728791	0.016870773	0.049835826
ENSMMUG000000007507	chloride voltage-gated channel 2 [Source:VGNC Symbol;Acc:VGNC:71235]	0.332796429	0.00101753	0.004592313
ENSMMUG000000007524	RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]	0.963509379	1.01E-05	7.71E-05
ENSMMUG000000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	2.47920114	2.70E-09	4.36E-08
ENSMMUG000000060581		1.963955378	3.98E-05	0.000265735

ENSMMUG0000000425	VPS8 subunit of CORVET complex [Source:VGNC Symbol;Acc:VGNC:79779]	-	0.421328829	0.005713747	0.020145706
ENSMMUG00000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	-	1.434984109	1.80E-18	1.15E-16
ENSMMUG00000052418		-	0.622200816	9.88E-06	7.56E-05
ENSMMUG00000018909	fetuin B [Source:VGNC Symbol;Acc:VGNC:72638]	-	0.508054516	0.000325617	0.00169295
ENSMMUG00000018910	histidine rich glycoprotein [Source:VGNC Symbol;Acc:VGNC:73521]	-	1.173695247	0.000195663	0.001083975
ENSMMUG00000022532	EPM2A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84184]	-	0.713580198	0.014534866	0.044120558
ENSMMUG00000022533	mutL homolog 1 [Source:VGNC Symbol;Acc:VGNC:74880]	-	-1.47907793	0.009845488	0.032011598
ENSMMUG00000022539	LRR binding FLII interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:74449]	-	0.403504193	0.001710328	0.007219231
ENSMMUG00000054175		-	0.593619607	1.61E-07	1.88E-06
ENSMMUG00000000987	DLEC1 cilia and flagella associated protein [Source:VGNC Symbol;Acc:VGNC:71808]	-	0.471353589	0.008620666	0.028650805
ENSMMUG00000004847	xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]	-	0.407234754	0.001129252	0.00501863
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	-	1.946447767	7.18E-15	2.93E-13
ENSMMUG00000015827	sodium voltage-gated channel alpha subunit 10 [Source:VGNC Symbol;Acc:VGNC:76980]	-	0.206814684	0.014065581	0.042983258
ENSMMUG00000020150	xin actin binding repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:78952]	-	-0.80117474	9.32E-08	1.12E-06
ENSMMUG00000051711		-	0.339750805	0.004861373	0.017527227
ENSMMUG00000051408	myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]	-	0.818989169	5.91E-05	0.00037486
ENSMMUG00000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	-	1.192080644	8.84E-13	2.60E-11
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	-	2.576694266	2.02E-10	4.02E-09
ENSMMUG00000013330	ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]	-	1.861162282	1.83E-11	4.38E-10
ENSMMUG00000009437	zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]	-	2.374194566	2.29E-05	0.000161038
ENSMMUG00000024178	U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]	-	2.678797187	0.005588988	0.019797055
ENSMMUG00000050991		-	0.551499015	0.013042785	0.04032927
ENSMMUG00000001074	unc-51 like kinase 4 [Source:VGNC Symbol;Acc:VGNC:82565]	-	0.526859834	0.006402536	0.022139313
ENSMMUG00000050275		-	0.598253906	0.016238262	0.048322541
ENSMMUG00000021242	natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]	-	2.957852501	0.000208707	0.001148364
ENSMMUG00000021244	kelch like family member 40 [Source:VGNC Symbol;Acc:VGNC:74165]	-	3.442174316	4.73E-05	0.000308784
ENSMMUG00000021246	hedgehog acyltransferase like [Source:NCBI gene;Acc:717333]	-	1.892940225	0.001803051	0.007549237
ENSMMUG00000031684	KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]	-	2.048605724	0.005843092	0.020505158
ENSMMUG00000056798		-	1.846377603	7.82E-05	0.000481082
ENSMMUG00000054286		-	1.265112509	3.97E-05	0.000265287
ENSMMUG00000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]	-	0.538511092	2.13E-06	1.89E-05
ENSMMUG00000040696	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.545042313	0.000265752	0.001421877
ENSMMUG00000051589		-	0.824959578	0.000598761	0.002895606
ENSMMUG00000019740	zinc finger DHHC-type palmitoyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:79143]	-	0.782987757	0.016505089	0.048996219
ENSMMUG00000004576	C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]	-	1.076373136	0.003916956	0.014579316
ENSMMUG00000062394	C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]	-	1.037885527	2.87E-05	0.000197076
ENSMMUG00000006454	kelch like family member 18 [Source:VGNC Symbol;Acc:VGNC:74154]	-	0.715330382	0.003764749	0.014130688
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	-	1.69735252	1.55E-10	3.16E-09
ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	-	2.312415354	4.34E-45	5.26E-42

ENSMMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]	1.157104289	4.75E-14	1.73E-12
ENSMMUG00000064458		-		
ENSMMUG00000003074	plexin B1 [Source:VGNC Symbol;Acc:VGNC:76187]	1.596992808	1.37E-06	1.28E-05
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	2.400711911	0.001801389	0.007544452
ENSMMUG00000043955	three prime repair exonuclease 1 [Source:VGNC Symbol;Acc:VGNC:82708]	0.798113367	4.56E-14	1.69E-12
ENSMMUG00000010062	shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]	0.721005635	0.000351437	0.00180972
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]	0.722788221	7.18E-07	7.15E-06
ENSMMUG00000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	0.730527411	1.50E-08	2.10E-07
ENSMMUG00000014699		2.160982405	6.18E-34	1.95E-31
ENSMMUG00000032659	mml-mir-711 [Source:miRBase;Acc:MI0012553]	1.714133404	4.84E-57	1.76E-53
ENSMMUG00000014707	cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]	1.951187721	6.20E-06	4.97E-05
ENSMMUG00000064174		1.552368587	0.002635451	0.010388166
ENSMMUG00000014720	NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]	1.597409778	0.003070345	0.011870912
ENSMMUG00000052238		1.79093758	1.90E-06	1.71E-05
ENSMMUG00000014537	bassoon presynaptic cytomatrix protein [Source:VGNC Symbol;Acc:VGNC:70284]	0.709224549	0.000279412	0.001486753
ENSMMUG00000014540	acylaminoacyl-peptide hydrolase [Source:VGNC Symbol;Acc:VGNC:69982]	0.502966646	0.00103962	0.004678936
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	-		
ENSMMUG00000014589	inositol hexakisphosphate kinase 1 [Source:VGNC Symbol;Acc:VGNC:73621]	0.767428257	0.002642465	0.010404528
ENSMMUG00000031794		-		
ENSMMUG00000020979	inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]	0.602754301	2.26E-09	3.70E-08
ENSMMUG00000020980	ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]	1.041686986	4.03E-05	0.00026821
ENSMMUG00000016476	TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]	1.316198083	1.89E-05	0.000135271
ENSMMUG00000016480	CaM kinase like vesicle associated [Source:VGNC Symbol;Acc:VGNC:70663]	1.55275752	1.93E-13	6.21E-12
ENSMMUG00000044412	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.529977418	3.77E-09	5.93E-08
ENSMMUG0000003353	macrophage stimulating 1 receptor [Source:VGNC Symbol;Acc:VGNC:74941]	1.351734802	1.44E-10	2.95E-09
ENSMMUG00000056280	G protein subunit alpha i2 [Source:NCBI gene;Acc:703780]	1.512892999	1.81E-10	3.64E-09
ENSMMUG00000020117	semaphorin 3B [Source:VGNC Symbol;Acc:VGNC:77160]	2.791237906	0.009684498	0.031572898
ENSMMUG0000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	4.658720531	5.64E-05	0.000360327
ENSMMUG0000004280	DDB1 and CUL4 associated factor 1 [Source:VGNC Symbol;Acc:VGNC:71819]	-		
ENSMMUG00000017351	stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]	0.734036929	2.48E-06	2.17E-05
ENSMMUG00000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	-		
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	1.176468416	3.62E-06	3.06E-05
ENSMMUG00000017370	signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]	1.308525493	6.09E-11	1.32E-09
ENSMMUG00000014433	transketolase [Source:VGNC Symbol;Acc:VGNC:78362]	1.552442617	5.79E-05	0.000368683
ENSMMUG00000011208	decapping mRNA 1A [Source:VGNC Symbol;Acc:VGNC:71668]	-		
ENSMMUG00000019266	choline dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71086]	0.784458658	6.54E-07	6.59E-06
ENSMMUG00000021620	ELKS/RAB6-interacting/CAST family member 2 [Source:VGNC Symbol;Acc:VGNC:72164]	1.317849888	2.23E-12	6.17E-11
ENSMMUG00000039085	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1 [Source:NCBI gene;Acc:100425753]	1.590424205	1.03E-15	4.87E-14
ENSMMUG00000021008	ankyrin repeat and SOCS box containing 14 [Source:VGNC Symbol;Acc:VGNC:84237]	1.411583889	0.00016557	0.000933991
ENSMMUG00000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.411472526	0.003868167	0.014440588
ENSMMUG00000024983	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-1.238408	0.011107918	0.035333875
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	-		
		0.937336057	2.55E-05	0.000177275
		-		
		0.641802241	1.20E-06	1.14E-05
		-		
		2.133407129	0.000685137	0.003263381
		-		
		2.479252166	0.001155599	0.005113832
		-		
		1.396773389	6.28E-10	1.15E-08
		-0.43031413	0.01294066	0.040076347
		2.449640852	2.36E-15	1.05E-13

ENSMMUG0000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]	1.78356702	3.79E-21	3.20E-19
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	2.239792093	1.49E-21	1.32E-19
ENSMMUG000000057539		2.638941141	3.44E-12	9.20E-11
		-		
ENSMMUG00000001531	leucine rich repeats and immunoglobulin like domains 1 [Source:VGNC Symbol;Acc:VGNC:84156]	0.617765065	0.000175597	0.00098444
		-		
ENSMMUG000000062338		1.032689962	0.000435132	0.002194071
		-		
ENSMMUG000000054412		0.709101511	0.000217563	0.001194377
ENSMMUG000000057486		0.470353576	0.000296153	0.001559845
ENSMMUG000000055556		3.899380953	0.000685012	0.003263381
		-		
ENSMMUG000000054043		1.668583468	0.01025944	0.033120471
ENSMMUG000000057543	MyoD family inhibitor domain containing 2 [Source:HGNC Symbol;Acc:HGNC:53442]	0.726227162	0.000533633	0.00261545
		-		
ENSMMUG00000009425	actin, cytoplasmic 2-like [Source:NCBI gene;Acc:705671]	0.471991652	0.015608381	0.046773661
ENSMMUG000000056158		1.536046576	7.86E-05	0.000482772
		-		
ENSMMUG000000054107		0.655982436	0.004290039	0.015760501
		-		
ENSMMUG00000001849	interleukin 5 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73731]	1.025467026	6.18E-07	6.26E-06
ENSMMUG00000017983	tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]	0.763646403	0.005510148	0.019536835
		-		
ENSMMUG000000060798		1.017288578	0.000158958	0.000901591
ENSMMUG000000057502		3.197844238	0.016279989	0.048426889
ENSMMUG00000018281	interleukin 17 receptor E [Source:VGNC Symbol;Acc:VGNC:73623]	-0.45822635	0.000959108	0.004372079
		-		
ENSMMUG00000018282	interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]	0.560473193	0.000775911	0.003624493
		-		
ENSMMUG00000018285	cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]	0.678834541	4.73E-05	0.000309009
		-		
ENSMMUG00000018289	proline rich transmembrane protein 3 [Source:VGNC Symbol;Acc:VGNC:76324]	0.541231384	0.001467533	0.00629887
		-		
ENSMMUG00000018290	ER membrane protein complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72091]	0.685945222	0.003365132	0.012836245
ENSMMUG00000019933	TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]	1.126872359	0.00055387	0.00270279
ENSMMUG00000007195	tRNA splicing endonuclease subunit 2 [Source:VGNC Symbol;Acc:VGNC:82707]	0.732092306	0.01082768	0.034601449
		-		
ENSMMUG00000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]	1.297500973	4.21E-08	5.42E-07
		-		
ENSMMUG00000023125	XPC complex subunit, DNA damage recognition and repair factor [Source:VGNC Symbol;Acc:VGNC:78809]	0.684325201	0.002836969	0.011077362
		-		
ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]	1.190714789	3.60E-11	8.14E-10
		-		
ENSMMUG00000006340	solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]	0.618980966	0.000190675	0.001060384
ENSMMUG000000044822	coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]	1.137491356	5.26E-12	1.38E-10
		-		
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]	1.251028495	1.81E-16	9.22E-15
		-		
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	1.493607456	1.36E-24	1.54E-22
ENSMMUG000000055571		2.333067503	0.008280666	0.027634537
		-		
ENSMMUG000000032031		1.284772417	0.000614633	0.002963489
ENSMMUG00000001943	GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]	0.7890243	0.002390347	0.009577743
		-		
ENSMMUG000000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]	0.741618715	9.52E-07	9.21E-06

ENSMMUG00000057363		1.039420262	0.005948183	0.02082079
ENSMMUG00000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]	1.762240016	3.58E-16	1.77E-14
ENSMMUG00000014876	nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]	1.81805811	4.90E-14	1.78E-12
ENSMMUG00000003199	CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]	1.424936853	0.00085032	0.003944193
ENSMMUG000000050558		0.592794381	0.008634929	0.028678539
ENSMMUG00000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]	2.088829729	0.001361623	0.005906869
		-		
ENSMMUG00000019977	myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]	1.169663934	3.61E-08	4.71E-07
ENSMMUG00000019978	HERV-H LTR-associating 2 [Source:VGNC Symbol;Acc:VGNC:73377]	-1.25097096	0.002955457	0.011490633
ENSMMUG00000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	3.405195342	1.14E-28	2.27E-26
ENSMMUG00000008787	BBX high mobility group box domain containing [Source:VGNC Symbol;Acc:VGNC:82110]	0.342929935	0.000589382	0.002854045
ENSMMUG000000055345	Y RNA [Source:RFAM;Acc:RF00019]	0.756539149	0.000221751	0.001213055
		-		
ENSMMUG00000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]	0.808743347	8.88E-09	1.32E-07
		-		
ENSMMUG00000026103	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.637305364	0.00107408	0.004805757
		-		
ENSMMUG000000060744		2.028866953	5.19E-11	1.13E-09
ENSMMUG000000063181		0.438774204	0.016934657	0.04994504
		-		
ENSMMUG000000059753		0.532165981	0.000626653	0.003011454
ENSMMUG00000021567	neurexophilin and PC-esterase domain family member 3 [Source:VGNC Symbol;Acc:VGNC:75476]	-0.36000764	0.006000674	0.020969182
ENSMMUG000000057768		-0.82333113	7.17E-06	5.67E-05
ENSMMUG000000038349	crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]	0.674126808	1.88E-07	2.15E-06
		-		
ENSMMUG000000043727	zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]	2.379488115	6.97E-07	6.98E-06
		-		
ENSMMUG000000047994	CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]	1.705485898	5.83E-08	7.32E-07
		-		
ENSMMUG000000033738	RNA, U6atac small nuclear 6, pseudogene [Source:HGNC Symbol;Acc:HGNC:46905]	0.955248698	3.59E-09	5.67E-08
		-		
ENSMMUG000000000519	vestigial like family member 3 [Source:VGNC Symbol;Acc:VGNC:79430]	0.891353606	0.006035174	0.021069484
		-		
ENSMMUG000000050994		1.433430727	0.001727606	0.007273155
ENSMMUG00000005096		1.144529051	2.27E-08	3.08E-07
ENSMMUG000000049913		1.288240432	0.00115504	0.005113832
		-		
ENSMMUG000000056687		1.721901746	2.05E-13	6.58E-12
ENSMMUG000000052831		0.821136896	2.15E-05	0.000152434
		-		
ENSMMUG000000032295	zinc finger protein 595 [Source:VGNC Symbol;Acc:VGNC:79655]	0.697802448	0.013942442	0.042660763
		-		
ENSMMUG000000047256	zinc finger protein 732 [Source:NCBI gene;Acc:716016]	1.079910452	0.012466086	0.03887481
		-		
ENSMMUG000000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.976551881	4.02E-14	1.50E-12
		-		
ENSMMUG000000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	1.647065303	1.96E-17	1.10E-15
		-		
ENSMMUG000000065084		0.426035684	0.001087287	0.004851411
		-		
ENSMMUG00000008323	C-terminal binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71539]	0.691035171	7.13E-09	1.07E-07
ENSMMUG00000008357	macrophage erythroblast attacher [Source:VGNC Symbol;Acc:VGNC:74282]	0.529521574	0.009931187	0.032246967
ENSMMUG000000032306	zinc finger FYVE-type containing 28 [Source:NCBI gene;Acc:720600]	-0.75193418	0.000108808	0.000642724
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	1.342809881	1.82E-08	2.51E-07

ENSMMUG0000008383	major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]	1.442792425	1.75E-09	2.94E-08
ENSMMUG0000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	1.183366308	6.99E-13	2.07E-11
		-		
ENSMMUG0000008392	huntingtin [Source:VGNC Symbol;Acc:VGNC:73468]	0.679382504	1.75E-06	1.58E-05
ENSMMUG0000006234	acyl-CoA oxidase 3, pristanoyl [Source:VGNC Symbol;Acc:VGNC:69382]	0.573384461	0.000329918	0.001711031
		-		
ENSMMUG00000030400	SH3 domain and tetratricopeptide repeats 1 [Source:NCBI gene;Acc:722649]	0.523543354	0.000275246	0.001467273
		-		
ENSMMUG00000015099	janus kinase and microtubule interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73662]	0.682782535	0.001534436	0.006547139
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	1.18065825	6.93E-14	2.43E-12
ENSMMUG00000057703		1.148921338	7.16E-06	5.67E-05
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	1.052181737	2.42E-07	2.70E-06
ENSMMUG00000016922	serine/threonine kinase 32B [Source:VGNC Symbol;Acc:VGNC:78114]	1.006022694	0.002335145	0.00940072
		-		
ENSMMUG00000060830		2.856043941	0.003029182	0.01172709
		-		
ENSMMUG00000023394	zinc finger and BTB domain containing 49 [Source:VGNC Symbol;Acc:VGNC:79207]	1.476378671	0.005119856	0.018327344
ENSMMUG00000023242	transmembrane protein 128 [Source:VGNC Symbol;Acc:VGNC:82257]	-0.70644516	0.000244594	0.001319927
ENSMMUG00000056982		0.379073573	0.001080737	0.004828111
ENSMMUG00000061061		3.803612535	0.001074001	0.004805757
ENSMMUG00000009388	F-box and leucine rich repeat protein 5 [Source:VGNC Symbol;Acc:VGNC:81408]	3.812499086	0.000540293	0.002642747
ENSMMUG00000061298		3.293296732	0.001737871	0.007303681
ENSMMUG00000015294	bone marrow stromal cell antigen 1 [Source:VGNC Symbol;Acc:VGNC:70285]	3.359659505	0.00625699	0.021713501
ENSMMUG00000015298	CD38 molecule [Source:VGNC Symbol;Acc:VGNC:70762]	1.373324039	0.000199134	0.001100273
ENSMMUG00000008162	fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]	1.228233571	1.91E-08	2.62E-07
ENSMMUG00000023116	LIM domain binding 2 [Source:VGNC Symbol;Acc:VGNC:74246]	-0.77753714	1.85E-06	1.66E-05
		-		
ENSMMUG00000018073	ligand dependent nuclear receptor corepressor like [Source:NCBI gene;Acc:715285]	0.552358877	0.003486575	0.013226603
ENSMMUG00000057338		-1.09568017	3.61E-07	3.88E-06
		-		
ENSMMUG00000060440	leucine rich repeat LGI family member 2 [Source:NCBI gene;Acc:693308]	0.428428657	7.80E-05	0.00047991
ENSMMUG00000003629	phosphatidylinositol 4-kinase type 2 beta [Source:NCBI gene;Acc:693561]	1.670950958	0.001276732	0.005585269
ENSMMUG00000049298	cholecystokinin A receptor [Source:NCBI gene;Acc:694742]	3.819873789	0.001623675	0.006893504
ENSMMUG00000057711		0.664448611	0.014116759	0.043112463
ENSMMUG00000009439	stromal interaction molecule 2 [Source:VGNC Symbol;Acc:VGNC:77965]	1.287979786	0.005964522	0.020867932
		-		
ENSMMUG00000051768		1.122503992	0.000281743	0.001497514
ENSMMUG00000055079		0.443753483	0.004333245	0.015887207
ENSMMUG00000004471	family with sequence similarity 114 member A1 [Source:VGNC Symbol;Acc:VGNC:72342]	1.034902005	0.011522636	0.036385652
		-		
ENSMMUG00000002755	kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]	3.493457254	1.82E-06	1.64E-05
		-		
ENSMMUG00000002756	WD repeat domain 19 [Source:VGNC Symbol;Acc:VGNC:79132]	0.361612711	0.011572657	0.036500697
ENSMMUG00000008834	klotho beta [Source:VGNC Symbol;Acc:VGNC:73835]	1.617283901	0.009798345	0.031901129
		-		
ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]	0.901169895	8.45E-05	0.000514294
		-		
ENSMMUG00000036851	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	0.530308285	0.01630325	0.048476241
		-		
ENSMMUG00000012036	RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]	0.816430005	1.35E-11	3.29E-10
		-		
ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]	0.967261032	3.69E-09	5.81E-08
ENSMMUG00000055441		1.628885361	2.45E-05	0.000171495

ENSMMUG00000051296	paired like homeobox 2B [Source:NCBI gene;Acc:701940]	1.646673279	0.000116484	0.000684174
ENSMMUG00000018625	NIPA like domain containing 1 [Source:NCBI gene;Acc:704998]	0.667168739	0.015909943	0.047501097
ENSMMUG00000018628	tec protein tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78305]	0.573483671	0.001365129	0.005920309
ENSMMUG00000006703	solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]	1.029045196	4.27E-05	0.000283001
ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]	1.276162498	5.91E-08	7.41E-07
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]	1.559116584	9.22E-09	1.35E-07
ENSMMUG000000063785		1.274971426	0.003011158	0.011666631
ENSMMUG00000058229	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.850155999	5.35E-06	4.35E-05
ENSMMUG00000008514	lin-54 DREAM MuvB core complex component [Source:VGNC Symbol;Acc:VGNC:74123]	1.014055355	0.016047232	0.047832401
ENSMMUG00000048621	enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]	1.565096037	2.18E-07	2.46E-06
ENSMMUG00000060484	heterogeneous nuclear ribonucleoprotein D [Source:NCBI gene;Acc:694867]	0.771522038	0.002385996	0.009563061
ENSMMUG00000052348		1.314923719	9.14E-07	8.87E-06
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	1.273754529	7.83E-09	1.17E-07
ENSMMUG00000007366		1.159477336	2.35E-06	2.07E-05
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]	1.104460486	6.73E-10	1.22E-08
ENSMMUG00000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	2.178654214	1.84E-16	9.29E-15
ENSMMUG00000018186	so sondowah ankyrin repeat domain family member B [Source:VGNC Symbol;Acc:VGNC:78033]	0.543925889	2.05E-07	2.33E-06
ENSMMUG00000020916	coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]	0.885044382	4.60E-09	7.12E-08
ENSMMUG00000020913	scavenger receptor class B member 2 [Source:VGNC Symbol;Acc:VGNC:77026]	0.930732588	0.000368272	0.001884398
ENSMMUG00000020910	nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]	1.389146452	1.26E-07	1.49E-06
ENSMMUG00000017503	SDA1 domain containing 1 [Source:NCBI gene;Acc:700863]	2.256825348	1.72E-05	0.000123888
ENSMMUG00000017501	N-acyl ethanolamine acid amidase [Source:VGNC Symbol;Acc:VGNC:75068]	2.080474916	2.07E-07	2.35E-06
ENSMMUG00000015716	protein phosphatase with EF-hand domain 2 [Source:VGNC Symbol;Acc:VGNC:76233]	1.454895555	0.007503764	0.02545676
ENSMMUG00000003833	Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]	2.38149905	4.83E-13	1.46E-11
ENSMMUG00000003830	alpha fetoprotein [Source:VGNC Symbol;Acc:VGNC:69741]	1.332844847	0.001060032	0.004757546
ENSMMUG00000003827	albumin [Source:VGNC Symbol;Acc:VGNC:69782]	1.151461408	3.32E-06	2.83E-05
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	3.297052449	2.09E-33	6.08E-31
ENSMMUG00000062248	follicular dendritic cell secreted protein [Source:NCBI gene;Acc:707784]	0.728828875	0.002007229	0.008296584
ENSMMUG00000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]	1.278361427	1.05E-07	1.25E-06
ENSMMUG00000048823		1.052871071	6.07E-08	7.58E-07
ENSMMUG00000004849	casein beta [Source:VGNC Symbol;Acc:VGNC:71523]	1.034584248	3.92E-07	4.17E-06
ENSMMUG00000047324	casein alpha s1 [Source:HGNC Symbol;Acc:HGNC:2445]	2.388205026	3.36E-05	0.000227328
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	0.996734876	1.23E-08	1.77E-07
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]	1.735317784	3.53E-07	3.81E-06
ENSMMUG00000010113	steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]	-1.46736104	7.63E-08	9.35E-07
ENSMMUG00000052882	RAS like family 11 member B [Source:NCBI gene;Acc:701397]	1.980432854	0.004622288	0.016773389
ENSMMUG00000018943	spermatogenesis associated 18 [Source:VGNC Symbol;Acc:VGNC:78013]	1.313449602	5.65E-06	4.57E-05
ENSMMUG00000018939	leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]	0.878825993	7.17E-05	0.000444463
ENSMMUG00000008579	defective in cullin neddylation 1 domain containing 4 [Source:VGNC Symbol;Acc:VGNC:71809]	0.901833004	0.006562792	0.022596708

ENSMMUG0000008341	Rho GTPase activating protein 24 [Source:VGNC Symbol;Acc:VGNC:69904]	1.123957264	9.69E-05	0.000580184
ENSMMUG0000003726	protein tyrosine phosphatase non-receptor type 13 [Source:VGNC Symbol;Acc:VGNC:76599]	0.905127124	3.69E-05	0.000247181
ENSMMUG00000014076	AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]	2.119988056	7.48E-09	1.12E-07
ENSMMUG00000051677		1.194453453	2.59E-08	3.47E-07
ENSMMUG00000014080	kelch like family member 8 [Source:VGNC Symbol;Acc:VGNC:74076]	0.760468546	0.001653405	0.007005407
ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]	0.710395882	2.95E-05	0.000201979
ENSMMUG00000019041	hydroxysteroid 17-beta dehydrogenase 11 [Source:VGNC Symbol;Acc:VGNC:73431]	0.729743895	0.004793881	0.01730965
ENSMMUG00000008795	polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]	1.232966391	6.71E-09	1.01E-07
ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]	-1.02677668	2.11E-09	3.47E-08
ENSMMUG00000028039	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.904010295	0.007037319	0.024020078
ENSMMUG00000010314	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:VGNC Symbol;Acc:VGNC:73238]	1.942034514	1.05E-10	2.18E-09
ENSMMUG00000010316	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]	4.055313155	1.04E-34	3.86E-32
ENSMMUG00000010318	phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]	4.574840584	2.67E-34	9.24E-32
ENSMMUG00000010138	HECT and RLD domain containing E3 ubiquitin protein ligase 3 [Source:VGNC Symbol;Acc:VGNC:73365]	0.768180663	1.06E-06	1.02E-05
ENSMMUG00000058544	nucleosome assembly protein 1 like 5 [Source:NCBI gene;Acc:703223]	0.925129468	1.35E-08	1.92E-07
ENSMMUG00000010141	family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]	1.023716382	1.75E-20	1.40E-18
ENSMMUG00000032793	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.719161887	0.016760396	0.049622379
ENSMMUG00000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]	1.787527945	6.08E-17	3.24E-15
ENSMMUG00000049396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.669589195	0.000467646	0.002333737
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]	2.672010342	3.05E-15	1.34E-13
ENSMMUG00000022246	PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]	1.290825183	1.83E-08	2.52E-07
ENSMMUG00000060760		1.572125298	2.45E-09	3.99E-08
ENSMMUG00000006702	bone morphogenetic protein receptor type 1B [Source:VGNC Symbol;Acc:VGNC:70267]	0.978635117	0.015946538	0.047581039
ENSMMUG00000006309	unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]	-2.58220348	7.96E-06	6.20E-05
ENSMMUG00000011702	tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]	1.336280355	2.77E-06	2.40E-05
ENSMMUG00000063972		0.833163083	0.000159562	0.000904663
ENSMMUG00000040764	alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]	0.880497641	0.00014912	0.000851769
ENSMMUG00000018738	alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]	0.700168449	0.000290447	0.001532571
ENSMMUG00000061366		0.617376197	0.000479594	0.002382727
ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]	2.916957847	3.36E-13	1.04E-11
ENSMMUG00000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-2.27895057	6.26E-08	7.81E-07
ENSMMUG00000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	3.127979639	8.08E-12	2.04E-10
ENSMMUG00000003739	mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]	1.459121637	0.000855615	0.003961173
ENSMMUG00000011206	solute carrier family 9 member B1 [Source:NCBI gene;Acc:710949]	0.696650138	5.70E-05	0.000363809
ENSMMUG00000019083	solute carrier family 9 member B2 [Source:VGNC Symbol;Acc:VGNC:77773]	0.676671875	0.015219345	0.045823847
ENSMMUG00000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	1.276413571	1.63E-16	8.33E-15
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	1.326133048	2.14E-14	8.30E-13
ENSMMUG00000049998	tachykinin receptor 3 [Source:NCBI gene;Acc:653013]	0.839148856	0.012253106	0.038290689

ENSMMUG00000010941	Rho guanine nucleotide exchange factor 38 [Source:VGNC Symbol;Acc:VGNC:82087]	-	0.418729772	0.000243323	0.00131396
ENSMMUG00000060432		-	0.841570265	0.015931064	0.047544628
ENSMMUG00000052609	ribosomal protein L34 [Source:NCBI gene;Acc:696636]	-	1.851415166	1.35E-06	1.26E-05
ENSMMUG00000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	-	1.963755811	1.76E-09	2.94E-08
ENSMMUG00000055759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.631003815	3.10E-07	3.38E-06
ENSMMUG00000062794		-	3.365378096	4.05E-26	5.77E-24
ENSMMUG00000009816	exosome component 9 [Source:VGNC Symbol;Acc:VGNC:72477]	-	1.625746618	0.000230431	0.001252251
ENSMMUG00000061098		-	1.846271043	4.59E-35	1.85E-32
ENSMMUG00000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	-	1.562603104	2.11E-10	4.16E-09
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	-	1.27405504	9.12E-10	1.60E-08
ENSMMUG00000011810	FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]	-	-1.45024355	0.000748498	0.003519052
ENSMMUG00000057895		-	1.792758938	0.011046822	0.035176231
ENSMMUG00000010444	ring finger protein 150 [Source:VGNC Symbol;Acc:VGNC:76805]	-	3.077753714	0.001402267	0.006054727
ENSMMUG00000060157	zinc finger protein 330 [Source:NCBI gene;Acc:699364]	-	0.702746992	7.10E-05	0.000440501
ENSMMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]	-	1.241368181	2.43E-07	2.71E-06
ENSMMUG00000000827	ubiquitin specific peptidase 38 [Source:VGNC Symbol;Acc:VGNC:79224]	-	2.444190498	1.01E-05	7.72E-05
ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]	-	2.211029901	4.27E-17	2.35E-15
ENSMMUG00000014173		-	1.040387498	0.001852314	0.007719922
ENSMMUG00000007968	hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]	-	1.329791198	1.93E-08	2.65E-07
ENSMMUG00000005380	zinc finger protein 827 [Source:NCBI gene;Acc:706018]	-	1.399200456	3.37E-08	4.43E-07
ENSMMUG00000014955	nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]	-	1.163084768	0.002469734	0.009860622
ENSMMUG00000002211	doublecortin like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71670]	-	1.012959807	0.000110352	0.000650788
ENSMMUG00000002212	LPS responsive beige-like anchor protein [Source:NCBI gene;Acc:693823]	-	1.263859166	0.000763777	0.003580465
ENSMMUG00000059101		-	1.854871676	6.23E-06	4.99E-05
ENSMMUG00000063665		-	1.376345091	0.001955028	0.008099242
ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]	-	1.030813958	2.82E-08	3.75E-07
ENSMMUG00000018493	FH2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72598]	-	0.685454708	0.011231217	0.035655863
ENSMMUG00000039869		-	0.480260402	0.001351078	0.005866372
ENSMMUG00000009001	transmembrane 131 like [Source:VGNC Symbol;Acc:VGNC:79781]	-	0.904889421	0.000981434	0.004454296
ENSMMUG00000057643		-	0.471795867	0.001435956	0.00617954
ENSMMUG00000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	-	0.753322015	7.41E-12	1.89E-10
ENSMMUG00000064074		-	0.717187597	2.45E-05	0.000171392
ENSMMUG00000021147	RNA binding motif protein 46 [Source:VGNC Symbol;Acc:VGNC:76555]	-	0.598793108	0.000686444	0.003267464
ENSMMUG00000005447	guanylate cyclase 1 soluble subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73328]	-	0.538573139	0.001505911	0.006442444
ENSMMUG00000057700	acid sensing ion channel subunit family member 5 [Source:NCBI gene;Acc:699617]	-	0.566330269	4.97E-06	4.07E-05
ENSMMUG00000022018	tryptophan 2,3-dioxygenase [Source:VGNC Symbol;Acc:VGNC:78298]	-	0.467147124	0.001499091	0.006415155

ENSMMUG00000064707		1.888075508	2.98E-10	5.75E-09
ENSMMUG00000053790		3.278098565	5.69E-33	1.56E-30
ENSMMUG00000045101		0.550778122	0.012755851	0.039571448
ENSMMUG0000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	4.536340072	4.18E-32	1.06E-29
ENSMMUG0000001879	annexin A10 [Source:VGNC Symbol;Acc:VGNC:69945]	0.569359608	0.009383092	0.030769683
ENSMMUG0000001880	DExD/H-box helicase 60 [Source:VGNC Symbol;Acc:VGNC:71711]	0.583477427	5.61E-05	0.000358413
ENSMMUG0000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]	-1.16152306	2.49E-05	0.000173749
ENSMMUG00000013730	WD repeat domain 17 [Source:NCBI gene;Acc:700546]	0.40122529	0.000513671	0.002533843
ENSMMUG00000064304		-0.36647425	0.012896971	0.039958591
ENSMMUG00000065183		4.346353576	0.000211982	0.001165502
		-		
ENSMMUG00000058974		0.965632697	0.008595204	0.02857925
		-		
ENSMMUG00000049670		3.408237567	0.005115903	0.018317704
ENSMMUG00000011633	kallikrein B1 [Source:VGNC Symbol;Acc:VGNC:74195]	2.470932962	2.54E-05	0.000176608
ENSMMUG00000011634	coagulation factor XI [Source:VGNC Symbol;Acc:VGNC:72460]	2.554529593	0.000366491	0.001877267
		-		
ENSMMUG00000018051	FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]	0.690877682	1.65E-07	1.92E-06
ENSMMUG00000050600		2.288480069	0.01476645	0.044711496
ENSMMUG00000058448		0.58340838	0.011969924	0.037558122
ENSMMUG00000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	1.781333042	9.88E-08	1.18E-06
		-		
ENSMMUG00000054799		1.576588698	0.003806631	0.014247422
		-		
ENSMMUG00000064721		1.922160385	0.001418029	0.006113252
ENSMMUG00000052287		-2.16087261	2.32E-05	0.000163368
		-		
ENSMMUG00000044628		1.901026572	0.000119695	0.000701052
		-		
ENSMMUG00000012914	pericentrin [Source:VGNC Symbol;Acc:VGNC:75619]	0.435106361	0.007712822	0.02603234
		-		
ENSMMUG00000022324	formimidoyltransferase cyclodeaminase [Source:VGNC Symbol;Acc:VGNC:72825]	1.168387133	0.007386476	0.025129229
ENSMMUG00000062496		3.09963699	0.011419037	0.036155036
ENSMMUG00000000544	collagen type VI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:82084]	2.50631676	0.00595668	0.020845512
ENSMMUG00000052777		1.60889575	7.49E-06	5.89E-05
ENSMMUG00000004477	solute carrier family 19 member 1 [Source:VGNC Symbol;Acc:VGNC:77408]	0.917991238	0.014873649	0.044970514
		-		
ENSMMUG00000010695	adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]	1.465167035	9.45E-07	9.15E-06
ENSMMUG00000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]	0.910214701	0.000148182	0.000847749
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]	2.130753094	2.82E-28	5.32E-26
ENSMMUG00000046352	PTTG1 interacting protein [Source:VGNC Symbol;Acc:VGNC:81748]	0.905469987	0.010273741	0.033159276
ENSMMUG00000049755	leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]	2.62017454	1.08E-06	1.03E-05
ENSMMUG00000004175	transient receptor potential cation channel subfamily M member 2 [Source:VGNC Symbol;Acc:VGNC:78655]	0.611619612	0.015011221	0.045310352
		-		
ENSMMUG00000049578	cilia and flagella associated protein 410 [Source:NCBI gene;Acc:722168]	0.311680433	0.010957678	0.034947733
		-		
ENSMMUG00000004173	phosphofructokinase, liver type [Source:VGNC Symbol;Acc:VGNC:81737]	0.707266283	4.70E-05	0.000307313
		-		
ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]	1.830604819	5.53E-12	1.44E-10
ENSMMUG00000045179	1-acylglycerol-3-phosphate O-acyltransferase 3 [Source:NCBI gene;Acc:713301]	0.63785221	0.000514653	0.002536965
		-		
ENSMMUG00000012304	ribosomal RNA processing 1 [Source:VGNC Symbol;Acc:VGNC:77050]	0.648521538	0.001368538	0.005931554
ENSMMUG00000012303	cystatin B [Source:VGNC Symbol;Acc:VGNC:71534]	1.3002282	0.006556355	0.022579896

ENSMMUG00000062457	pyridoxal kinase [Source:NCBI gene;Acc:713564]	-	0.623068076	0.003358106	0.012818619
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]	-	1.293506259	1.14E-13	3.84E-12
ENSMMUG00000022791	heat shock transcription factor 2 binding protein [Source:VGNC Symbol;Acc:VGNC:73532]	-	0.939818908	0.01193312	0.037458813
ENSMMUG00000020050	salt inducible kinase 1 [Source:NCBI gene;Acc:722303]	-	1.793733845	0.000172199	0.000967253
ENSMMUG00000022107	phosphodiesterase 9A [Source:VGNC Symbol;Acc:VGNC:75925]	-	2.368473587	0.008131836	0.0272003
ENSMMUG00000018081	ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]	-	1.043939615	1.55E-05	0.000113096
ENSMMUG00000018079	transmembrane serine protease 3 [Source:VGNC Symbol;Acc:VGNC:78576]	-	1.254535986	3.12E-07	3.40E-06
ENSMMUG00000018058	ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]	-	1.740903701	1.10E-11	2.72E-10
ENSMMUG00000018057	uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]	-	-1.3255404	3.77E-06	3.18E-05
ENSMMUG00000018053	zinc finger and BTB domain containing 21 [Source:VGNC Symbol;Acc:VGNC:78892]	-	0.517937995	0.000310102	0.001622151
ENSMMUG00000015329	MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]	-	3.499816257	5.89E-23	5.63E-21
ENSMMUG00000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]	-	4.166778446	1.11E-37	6.00E-35
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]	-	3.312260182	2.65E-32	6.89E-30
ENSMMUG00000008498	proteasome assembly chaperone 1 [Source:VGNC Symbol;Acc:VGNC:76347]	-	0.398362331	0.005777288	0.020340139
ENSMMUG000000058004		-	1.087911484	0.013612963	0.041828713
ENSMMUG000000056593		-	2.959946836	0.000163587	0.000923878
ENSMMUG00000017505	tetratricopeptide repeat domain 3 [Source:VGNC Symbol;Acc:VGNC:81785]	-	0.669398536	2.93E-08	3.88E-07
ENSMMUG00000062048		-	0.808952337	8.98E-10	1.59E-08
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	-	0.835896479	7.75E-07	7.64E-06
ENSMMUG00000064897		-	1.119067811	0.002569994	0.010182611
ENSMMUG00000001649	RUNX family transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:76946]	-	0.443783264	0.015675964	0.046947044
ENSMMUG000000054417		-	0.693730557	8.82E-06	6.80E-05
ENSMMUG00000005511	SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]	-	1.42692995	2.70E-07	2.99E-06
ENSMMUG00000022702	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase [Source:VGNC Symbol;Acc:VGNC:72882]	-	0.968933832	0.006543521	0.022541035
ENSMMUG00000003956	interferon alpha and beta receptor subunit 2 [Source:VGNC Symbol;Acc:VGNC:81330]	-	0.756581015	4.50E-06	3.72E-05
ENSMMUG00000065005	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.322453794	1.29E-06	1.21E-05
ENSMMUG000000052780		-	1.579944161	1.86E-17	1.05E-15
ENSMMUG00000027541	Small nucleolar RNA SNORA70 [Source:RFAM;Acc:RF00156]	-	2.341020462	0.013444304	0.041406746
ENSMMUG00000004624	synaptojanin 1 [Source:VGNC Symbol;Acc:VGNC:78071]	-	-0.54802112	0.000558561	0.002723852
ENSMMUG00000010304	cilia and flagella associated protein 298 [Source:NCBI gene;Acc:700721]	-	0.510340639	6.03E-07	6.16E-06
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	-	1.280064746	2.09E-18	1.32E-16
ENSMMUG00000010295	URB1 ribosome biogenesis homolog [Source:VGNC Symbol;Acc:VGNC:79074]	-	1.697381934	0.005203624	0.018586015
ENSMMUG000000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	-	2.037682515	3.66E-07	3.93E-06
ENSMMUG00000064916		-	1.752822524	0.010794278	0.034509879
ENSMMUG000000056363		-	2.176306104	8.34E-07	8.16E-06
ENSMMUG00000004886	glutamate ionotropic receptor kainate type subunit 1 [Source:VGNC Symbol;Acc:VGNC:73277]	-	3.28301989	0.000622108	0.002993573

ENSMMUG00000011095	BTB domain and CNC homolog 1 [Source:VGNC Symbol;Acc:VGNC:70217]	2.562498721	8.89E-06	6.85E-05
ENSMMUG00000033200	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	3.200848834	0.000650788	0.003117135
ENSMMUG00000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	1.569707065	1.68E-26	2.56E-24
ENSMMUG00000003020	ubiquitin specific peptidase 16 [Source:VGNC Symbol;Acc:VGNC:78738]	3.313515926	0.006095272	0.021248672
ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	1.501887242	4.60E-14	1.69E-12
ENSMMUG00000018743	ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]	4.13637004	5.24E-07	5.42E-06
ENSMMUG00000052195		2.682782055	0.001810827	0.007573069
ENSMMUG00000060808		2.92346994	4.75E-05	0.000310071
ENSMMUG00000058750	nuclear receptor interacting protein 1 [Source:NCBI gene;Acc:693866]	1.047037535	9.66E-05	0.000578635
		-		
ENSMMUG00000020090	ATP-binding cassette transporter 13 [Source:NCBI gene;Acc:574326]	0.445427564	0.006092545	0.02124426
ENSMMUG00000060576		1.539963907	4.74E-17	2.55E-15
ENSMMUG00000057702		1.393817571	4.26E-18	2.60E-16
		-		
ENSMMUG00000060168		0.581704771	0.006116961	0.021289917
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	2.042517672	9.07E-05	0.000547712
ENSMMUG00000007206	chromosome 3 C7orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70609]	2.375089032	0.000148799	0.000850608
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]	0.860151902	1.58E-06	1.45E-05
		-		
ENSMMUG00000022624	putative speedy protein E16 [Source:NCBI gene;Acc:718058]	1.082669231	3.08E-06	2.65E-05
ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	1.050613813	3.91E-15	1.68E-13
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	1.372732528	6.49E-10	1.19E-08
		-		
ENSMMUG00000030422	radial spoke head 10 homolog B [Source:NCBI gene;Acc:100424218]	0.541301957	1.67E-05	0.000120638
ENSMMUG00000007970	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]	1.156596152	3.31E-06	2.81E-05
ENSMMUG00000015477	lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]	0.698271239	4.92E-06	4.04E-05
ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	1.251439647	1.91E-25	2.50E-23
ENSMMUG00000049558	brain protein I3 [Source:NCBI gene;Acc:706525]	-0.75894613	0.00058156	0.002821807
		-		
ENSMMUG00000013276	BAR/IMD domain containing adaptor protein 2 like 1 [Source:VGNC Symbol;Acc:VGNC:70109]	0.693793619	5.46E-05	0.000350935
ENSMMUG00000023318	transformation/transcription domain associated protein [Source:VGNC Symbol;Acc:VGNC:78657]	0.639269213	1.03E-11	2.55E-10
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]	2.344491663	1.18E-13	3.96E-12
ENSMMUG00000055483	transmembrane protein 225B [Source:NCBI gene;Acc:718838]	1.99432172	0.003879809	0.014472872
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]	1.409976231	3.21E-07	3.49E-06
ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]	0.98304652	2.80E-12	7.57E-11
		-		
ENSMMUG00000050824		1.411925187	0.009160632	0.030169485
		-		
ENSMMUG00000022490	cytochrome P450, family 3, subfamily A, polypeptide 43 [Source:NCBI gene;Acc:709770]	0.549505922	3.37E-05	0.000227537
		-		
ENSMMUG00000063929	olfactory receptor 2AE1 [Source:NCBI gene;Acc:106997573]	0.563922549	0.013800776	0.04229852
ENSMMUG00000022504	alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]	0.568667456	0.0019165	0.007956672
		-		
ENSMMUG00000004021	zinc finger protein 3 [Source:VGNC Symbol;Acc:VGNC:81889]	1.533619161	0.013466931	0.04145887
ENSMMUG00000013440	COP9 signalosome subunit 6 [Source:VGNC Symbol;Acc:VGNC:71286]	0.407477751	0.011939786	0.037471648
ENSMMUG00000013442	minichromosome maintenance complex component 7 [Source:VGNC Symbol;Acc:VGNC:74686]	0.458033826	0.005315111	0.018933049
ENSMMUG00000013447	adaptor related protein complex 4 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69974]	1.042024996	0.000890458	0.004101581
ENSMMUG00000013450	TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]	2.279094251	5.69E-08	7.17E-07
ENSMMUG00000013452	canopy FGF signaling regulator 4 [Source:VGNC Symbol;Acc:VGNC:71364]	1.819164475	0.000772779	0.003615673
		-		
ENSMMUG00000046663	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.810324243	6.33E-05	0.000398239
		-		
ENSMMUG00000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]	0.984757097	6.53E-13	1.94E-11

ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]	-	0.985504845	4.68E-16	2.31E-14
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]	-	1.152037079	1.21E-15	5.68E-14
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]	-	1.122064868	8.17E-18	4.77E-16
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]	-	1.828666007	2.73E-09	4.40E-08
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]	-	1.803463348	3.12E-16	1.55E-14
ENSMMUG00000004082	GRB10 interacting GYF protein 1 [Source:VGNC Symbol;Acc:VGNC:73158]	-	1.727091192	1.10E-05	8.37E-05
ENSMMUG00000022840	zonadhesin [Source:VGNC Symbol;Acc:VGNC:81797]	-	1.019732601	2.96E-06	2.55E-05
ENSMMUG00000052734		-	2.36817862	0.000820933	0.003817628
ENSMMUG00000060459		-	0.414519638	0.005425034	0.01927266
ENSMMUG00000063570	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-3.52758075	0.000866957	0.004009848
ENSMMUG00000011367	BUD23 rRNA methyltransferase and ribosome maturation factor [Source:VGNC Symbol;Acc:VGNC:70325]	-	3.067968306	0.001807912	0.007563057
ENSMMUG00000050132		-	0.918596358	0.000349432	0.001801946
ENSMMUG00000056980		-	2.304754466	0.000232987	0.00126378
ENSMMUG00000001225	calneuron 1 [Source:VGNC Symbol;Acc:VGNC:82078]	-	1.734915655	2.04E-06	1.82E-05
ENSMMUG00000052019		-	1.236854018	9.50E-05	0.000569678
ENSMMUG00000061002		-	1.086674775	5.93E-05	0.000375858
ENSMMUG00000021235	vitamin K epoxide reductase complex subunit 1 like 1 [Source:VGNC Symbol;Acc:VGNC:79322]	-	0.979747368	0.005677347	0.020041671
ENSMMUG00000049696		-	-0.42900857	0.000110844	0.000653424
ENSMMUG00000060757		-	0.356930253	0.010503024	0.033719626
ENSMMUG00000051107		-	1.416999367	2.24E-05	0.000158161
ENSMMUG00000060184	SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]	-	3.435603128	1.84E-06	1.66E-05
ENSMMUG00000019992	growth factor receptor bound protein 10 [Source:VGNC Symbol;Acc:VGNC:73157]	-	-1.64564313	0.007203903	0.024542569
ENSMMUG00000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	-	1.083001976	3.85E-25	4.88E-23
ENSMMUG00000049620		-	0.825816955	0.014882484	0.044986689
ENSMMUG00000000505	fidgetin like 1 [Source:VGNC Symbol;Acc:VGNC:72483]	-	0.990336895	0.004701203	0.01701728
ENSMMUG00000000504	IKAROS family zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:73585]	-	1.162806343	0.003634395	0.013719345
ENSMMUG00000044759		-	1.299129306	1.77E-15	8.07E-14
ENSMMUG00000043922	spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]	-	0.861165366	2.44E-06	2.14E-05
ENSMMUG00000016191	ATP binding cassette subfamily A member 13 [Source:VGNC Symbol;Acc:VGNC:69402]	-	1.534013009	0.014424271	0.043858111
ENSMMUG00000019393	tensin 3 [Source:VGNC Symbol;Acc:VGNC:79324]	-	1.977736529	0.015114243	0.045555825
ENSMMUG00000050300		-	0.816484283	0.0088175	0.029191529
ENSMMUG00000000962	H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]	-	0.833510851	0.000746067	0.003508757
ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]	-	2.112175165	7.55E-08	9.27E-07
ENSMMUG00000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]	-	2.35817135	3.94E-09	6.14E-08
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	-	1.547504795	1.39E-16	7.15E-15

ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	1.799234068	2.97E-23	2.90E-21
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	1.586769913	1.25E-15	5.83E-14
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.591533334	4.03E-13	1.24E-11
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	1.668949354	2.73E-10	5.29E-09
ENSMMUG00000002421	DNA polymerase mu [Source:VGNC Symbol;Acc:VGNC:81742]	3.104434053	0.010858791	0.034670382
ENSMMUG00000064860	phosphoglycerate mutase 2 [Source:NCBI gene;Acc:720615]	2.785823721	0.001836385	0.007660121
ENSMMUG00000019023	cytochrome c oxidase assembly factor 1 homolog [Source:VGNC Symbol;Acc:VGNC:81290]	0.57610904	0.002559379	0.010148445
ENSMMUG00000017382	biliverdin reductase A [Source:VGNC Symbol;Acc:VGNC:70256]	0.605661513	4.63E-07	4.86E-06
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	0.674399137	4.38E-07	4.62E-06
ENSMMUG00000019015	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73217]	0.514189788	0.000351714	0.001810503
ENSMMUG00000024428	Y RNA [Source:RFAM;Acc:RF00019]	1.56869783	0.01667086	0.049417678
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	2.114001403	1.10E-13	3.72E-12
ENSMMUG00000022451	proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]	1.734007916	1.73E-06	1.57E-05
ENSMMUG00000052530		1.124354702	0.012223599	0.038230306
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]	1.763749965	2.42E-17	1.35E-15
		-		
ENSMMUG00000065307		0.999748946	0.002541144	0.010098582
ENSMMUG00000006980	septin 7 [Source:VGNC Symbol;Acc:VGNC:81759]	2.601972521	0.001155349	0.005113832
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	2.056316704	5.26E-12	1.38E-10
ENSMMUG00000058423		2.485389745	1.34E-12	3.83E-11
		-		
ENSMMUG00000009865	probable C-mannosyltransferase DPY19L2 [Source:NCBI gene;Acc:699789]	0.506279935	0.0115962	0.036559088
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]	1.751676293	1.05E-14	4.15E-13
		-		
ENSMMUG00000050858	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.948523755	0.002390977	0.009577743
		-		
ENSMMUG00000022484	ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]	4.058894996	1.60E-06	1.47E-05
ENSMMUG00000055809		-3.71139405	5.65E-13	1.70E-11
ENSMMUG00000062454		2.228753222	1.69E-22	1.58E-20
ENSMMUG00000039009		1.481455821	0.000286196	0.001516743
ENSMMUG00000012529	pleckstrin homology domain containing A8 [Source:VGNC Symbol;Acc:VGNC:81741]	0.761320984	0.010449753	0.033600545
		-		
ENSMMUG00000032973	mml-mir-550 [Source:miRBase;Acc:MI0007826]	1.070535673	0.000519411	0.002556504
		-		
ENSMMUG00000020184	carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]	1.494672118	1.52E-05	0.000111275
		-		
ENSMMUG00000039317	cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]	2.239487331	3.20E-05	0.000217449
		-		
ENSMMUG00000055193		3.057972642	0.004277979	0.015720168
		-		
ENSMMUG00000001562	kelch like family member 7 [Source:VGNC Symbol;Acc:VGNC:74050]	1.732711108	0.010412838	0.033522908
		-		
ENSMMUG00000065311	translocase of outer mitochondrial membrane 7 [Source:NCBI gene;Acc:705701]	1.611535872	0.010508311	0.033729148
ENSMMUG00000042472	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.836324942	0.000509441	0.002515537
		-		
ENSMMUG00000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	2.536472269	6.10E-25	7.52E-23
		-		
ENSMMUG00000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	2.833659112	1.04E-28	2.11E-26
		-		
ENSMMUG00000052574		1.156337821	3.18E-15	1.40E-13
		-		
ENSMMUG00000020418	diacylglycerol kinase beta [Source:VGNC Symbol;Acc:VGNC:71782]	0.923185766	0.000221872	0.001213055
		-		
ENSMMUG00000008632	myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]	1.446347632	0.000296585	0.001560897

ENSMMUG00000012694	thrombospondin type 1 domain containing 7A [Source:VGNC Symbol;Acc:VGNC:79347]	-	1.256174153	0.005404608	0.019214181
ENSMMUG00000041616	G protein subunit gamma 11 [Source:VGNC Symbol;Acc:VGNC:81319]	-	2.712597128	0.011980104	0.037581953
ENSMMUG00000045513		-	1.815286368	8.81E-08	1.07E-06
ENSMMUG00000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	-	1.397303065	1.31E-13	4.34E-12
ENSMMUG00000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	-	1.032587404	7.83E-10	1.40E-08
ENSMMUG00000006766	RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]	-	1.739015241	1.14E-10	2.36E-09
ENSMMUG00000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	-	0.635178083	2.75E-05	0.000189408
ENSMMUG00000022513	glutamate metabotropic receptor 3 [Source:VGNC Symbol;Acc:VGNC:73287]	-	1.036700006	0.001280986	0.005598823
ENSMMUG00000001979	semaphorin 3E [Source:VGNC Symbol;Acc:VGNC:77163]	-	1.555123845	0.002355747	0.009470545
ENSMMUG00000018652	hepatocyte growth factor [Source:VGNC Symbol;Acc:VGNC:73373]	-	0.395090742	0.003513166	0.013313199
ENSMMUG00000053516		-	1.709069846	5.12E-09	7.88E-08
ENSMMUG00000001801	membrane associated guanylate kinase, WW and PDZ domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74312]	-	0.80899395	1.39E-05	0.000103322
ENSMMUG00000049939		-	1.006330339	2.05E-17	1.15E-15
ENSMMUG00000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]	-	0.730913791	4.70E-07	4.93E-06
ENSMMUG00000012427	F-box and leucine rich repeat protein 13 [Source:VGNC Symbol;Acc:VGNC:81312]	-	0.578746087	0.000161325	0.000913235
ENSMMUG00000012066	origin recognition complex subunit 5 [Source:VGNC Symbol;Acc:VGNC:75717]	-	0.439112551	0.016730509	0.049554077
ENSMMUG00000022727	lysine methyltransferase 2E [Source:VGNC Symbol;Acc:VGNC:74073]	-	2.849586257	0.000267485	0.001429044
ENSMMUG00000022732	SRSF protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:81764]	-	0.628723398	0.000415889	0.00210361
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	-	1.042982798	2.42E-10	4.72E-09
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	-	2.154948598	1.19E-18	7.82E-17
ENSMMUG00000011385	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma [Source:VGNC Symbol;Acc:VGNC:75998]	-	-0.36553151	0.010416478	0.033523211
ENSMMUG00000030218	B cell receptor associated protein 29 [Source:VGNC Symbol;Acc:VGNC:70119]	-	0.285954662	0.005630303	0.019919133
ENSMMUG00000019125	solute carrier family 26 member 4 [Source:VGNC Symbol;Acc:VGNC:77595]	-	0.344005789	0.00266816	0.010485819
ENSMMUG00000015535	inner mitochondrial membrane peptidase subunit 2 [Source:VGNC Symbol;Acc:VGNC:73596]	-	0.586655901	0.008109484	0.027138021
ENSMMUG00000062092		-	4.069166555	8.72E-06	6.74E-05
ENSMMUG00000058817		-	3.618111111	7.95E-32	1.99E-29
ENSMMUG00000002894	dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]	-	0.857912195	0.001138326	0.005048154
ENSMMUG00000011269	CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]	-	0.787396892	0.000133457	0.000773548
ENSMMUG00000023310	tetraspanin 12 [Source:VGNC Symbol;Acc:VGNC:79328]	-	2.735808696	0.006273282	0.021764845
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]	-	1.269011964	6.38E-05	0.000401022
ENSMMUG00000015240	glutamate metabotropic receptor 8 [Source:VGNC Symbol;Acc:VGNC:73292]	-	0.747382027	0.001328318	0.005779633
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]	-	0.652248933	0.000198781	0.001098737
ENSMMUG00000015427	fascin actin-bundling protein 3 [Source:VGNC Symbol;Acc:VGNC:72821]	-	0.712364491	0.007707769	0.026021326
ENSMMUG00000015432	staphylococcal nuclease and tudor domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77798]	-	0.858080665	2.19E-05	0.000155055
ENSMMUG00000007250	RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]	-	0.979427324	1.72E-05	0.000123751
ENSMMUG00000037001	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	-	2.093413598	0.007623794	0.025797742
ENSMMUG00000037473	proline rich transmembrane protein 4 [Source:VGNC Symbol;Acc:VGNC:81746]	-	0.428690901	0.004980658	0.01791287

ENSMMUG00000012110	smoothened, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	1.694079149	2.53E-11	5.82E-10
ENSMMUG00000017542	ubiquitin conjugating enzyme E2 H [Source:VGNC Symbol;Acc:VGNC:78696]	0.526489972	0.009138584	0.030131003
ENSMMUG00000006155	zinc finger C3HC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79827]	0.991706949	0.006447484	0.022268254
ENSMMUG00000010060	serine rich single-pass membrane protein 1 [Source:VGNC Symbol;Acc:VGNC:78014]	0.952485199	0.002352139	0.009458657
ENSMMUG00000009494	carboxypeptidase A5 [Source:VGNC Symbol;Acc:VGNC:71410]	0.818317239	0.000652465	0.003124137
ENSMMUG00000009495	carboxypeptidase A1 [Source:VGNC Symbol;Acc:VGNC:71455]	1.126276432	5.05E-05	0.000327086
ENSMMUG00000009496	centrosomal protein 41 [Source:VGNC Symbol;Acc:VGNC:70937]	0.819048496	0.001351614	0.005866949
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	3.692427911	1.70E-25	2.24E-23
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	3.627287638	4.24E-27	7.01E-25
ENSMMUG00000001671	coiled-coil-helix-coiled-coil-helix domain containing 3 [Source:VGNC Symbol;Acc:VGNC:80860]	1.106544362	0.002140448	0.008760047
ENSMMUG00000000916	solute carrier family 35 member B4 [Source:VGNC Symbol;Acc:VGNC:77528]	1.447646936	0.010447172	0.033600545
ENSMMUG00000000917	aldo-keto reductase family 1 member B [Source:NCBI gene;Acc:705957]	1.342093596	0.011927402	0.037457041
ENSMMUG00000004598	bisphosphoglycerate mutase [Source:VGNC Symbol;Acc:VGNC:70275]	2.159041031	0.01150098	0.036345598
ENSMMUG000000037485		3.647042753	7.78E-05	0.000479301
ENSMMUG000000054821		2.432122408	0.002132362	0.008734334
ENSMMUG00000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	1.227917196	6.51E-17	3.45E-15
ENSMMUG000000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.492103667	1.37E-13	4.54E-12
ENSMMUG000000062419		2.361358229	0.000137315	0.000792436
ENSMMUG00000002318	stimulated by retinoic acid 8 [Source:VGNC Symbol;Acc:VGNC:78250]	0.978869697	0.003865153	0.014436726
ENSMMUG00000016384	nucleoporin 205 [Source:VGNC Symbol;Acc:VGNC:75432]	0.802153338	0.000193082	0.001071722
ENSMMUG000000064014		2.723491174	0.013566363	0.041711975
ENSMMUG00000002995	tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]	0.658043831	0.00013369	0.000774591
ENSMMUG000000050262		1.363530667	0.010592451	0.033954237
ENSMMUG000000021676	SVOP like [Source:VGNC Symbol;Acc:VGNC:78224]	0.712403516	0.000236046	0.001277513
ENSMMUG00000006547	ATPase H+ transporting V0 subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]	2.508191205	0.001198098	0.005285811
ENSMMUG00000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	-3.15985624	2.36E-08	3.19E-07
ENSMMUG00000006549	zinc finger CCCH-type containing, antiviral 1 like [Source:VGNC Symbol;Acc:VGNC:79356]	0.612305345	0.000459085	0.002298457
ENSMMUG00000006550	zinc finger CCCH-type containing, antiviral 1 [Source:VGNC Symbol;Acc:VGNC:79408]	0.456377604	0.003830468	0.014325576
ENSMMUG00000006770	putative RNA-binding protein Luc7-like 2 [Source:NCBI gene;Acc:711104]	0.649654959	0.008174249	0.027317024
ENSMMUG00000004222	thromboxane A synthase 1 [Source:VGNC Symbol;Acc:VGNC:78278]	1.563580974	1.01E-11	2.50E-10
ENSMMUG000000052228	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.866450835	0.00145106	0.006235312
ENSMMUG00000004224	poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]	0.968320242	2.45E-12	6.70E-11
ENSMMUG000000056175		0.696878373	2.49E-05	0.000173698
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	0.798304116	5.33E-08	6.76E-07
ENSMMUG000000042299	DENN domain containing 2A [Source:VGNC Symbol;Acc:VGNC:81302]	2.483014641	0.004476618	0.016314011
ENSMMUG00000015282	aarF domain containing kinase 2 [Source:VGNC Symbol;Acc:VGNC:69473]	0.491048554	0.000132656	0.000769828
ENSMMUG000000060893		1.779762169	1.34E-05	0.00010002
ENSMMUG000000064529		1.418311071	8.79E-11	1.86E-09

ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	0.950692159	1.04E-06	1.00E-05
ENSMMUG00000022442	single stranded DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:77886]	0.626409425	5.86E-05	0.000372483
ENSMMUG00000055710	taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]	2.006416512	1.74E-06	1.57E-05
ENSMMUG00000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	2.049662282	4.67E-18	2.84E-16
ENSMMUG00000019937	maltase-glucoamylase 2 (putative) [Source:VGNC Symbol;Acc:VGNC:81720]	2.126130268	0.000634095	0.00304219
ENSMMUG00000049575	T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]	0.978395991	0.001076176	0.004813651
ENSMMUG00000051385		1.114005984	0.000623744	0.00299946
ENSMMUG00000050984	T cell receptor beta variable 5-4 [Source:HGNC Symbol;Acc:HGNC:12221]	1.310683818	0.016643906	0.049347839
ENSMMUG00000048246		2.679858928	0.005644927	0.019952199
ENSMMUG00000057494	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]	1.870071109	1.21E-06	1.15E-05
ENSMMUG00000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	2.080040063	3.37E-11	7.63E-10
ENSMMUG00000016286	protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]	1.414836121	8.54E-08	1.03E-06
ENSMMUG00000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	2.382828545	1.27E-27	2.25E-25
ENSMMUG00000052682		-2.37345361	6.52E-09	9.87E-08
ENSMMUG00000059019		2.613450187	1.14E-13	3.84E-12
ENSMMUG00000058459		2.290800131	0.001401866	0.006054727
ENSMMUG00000055756		3.620313768	0.004108774	0.015167406
ENSMMUG00000043809	caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]	0.943445855	4.70E-07	4.93E-06
ENSMMUG00000045428	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.758703216	0.012501438	0.038965138
ENSMMUG00000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	1.784071368	8.65E-21	7.10E-19
ENSMMUG00000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	1.473447153	8.55E-21	7.06E-19
ENSMMUG00000058370	taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]	4.019660077	9.87E-07	9.53E-06
ENSMMUG00000042798		1.136083909	2.38E-08	3.21E-07
ENSMMUG00000063823	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.725992714	0.000249235	0.001341403
ENSMMUG00000046165	chromosome 3 C7orf33 homolog [Source:NCBI gene;Acc:710503]	0.918606806	0.007511851	0.02547825
ENSMMUG00000017541	cullin 1 [Source:VGNC Symbol;Acc:VGNC:71565]	3.003887888	0.015552366	0.046644264
ENSMMUG00000057973		1.378850937	0.000795843	0.003710447
ENSMMUG00000049864		1.765261317	0.013067704	0.040392349
ENSMMUG00000018549	zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]	2.600572245	2.04E-07	2.32E-06
ENSMMUG00000002497	zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]	-1.09570947	3.15E-06	2.70E-05
ENSMMUG00000051020	zinc finger protein 467 [Source:NCBI gene;Acc:712106]	1.116699708	5.09E-05	0.000329873
ENSMMUG00000048892	SCO-spondin [Source:VGNC Symbol;Acc:VGNC:81765]	0.890939567	0.000223073	0.001217727
ENSMMUG00000022633	replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]	1.320293303	0.000145591	0.000835881
ENSMMUG00000062696		-0.95632336	0.001918639	0.007962107

ENSMMUG00000022636	GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]	-	1.221996329	7.44E-05	0.000460026
ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	-	1.907709772	3.00E-24	3.31E-22
ENSMMUG00000052830		-	1.704892727	1.61E-08	2.24E-07
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	-	1.083729551	5.02E-10	9.36E-09
ENSMMUG00000049295	GTPase, IMAP family member 5 [Source:NCBI gene;Acc:713835]	-	0.667090224	0.002069867	0.008514335
ENSMMUG00000020436	potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]	-	0.746005909	1.82E-07	2.08E-06
ENSMMUG00000006682	chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]	-	1.795620914	4.95E-05	0.000321577
ENSMMUG00000038898	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.525156572	0.008633759	0.028678539
ENSMMUG00000010943	protein kinase AMP-activated non-catalytic subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:81745]	-	1.009285899	8.01E-05	0.000491086
ENSMMUG00000012238	polypeptide N-acetylgalactosaminyltransferase 11 [Source:VGNC Symbol;Acc:VGNC:72749]	-	0.806796185	0.002360777	0.009482902
ENSMMUG00000007212	lysine methyltransferase 2C [Source:VGNC Symbol;Acc:VGNC:74043]	-	0.414802871	0.0089183	0.029478245
ENSMMUG00000027964	5S ribosomal RNA [Source:RFAM;Acc:RF00001]	-	1.500454297	0.010456543	0.033607511
ENSMMUG00000002878	X-ray repair cross complementing 2 [Source:VGNC Symbol;Acc:VGNC:78813]	-	0.717023032	0.001972494	0.008164621
ENSMMUG00000007770	canopy FGF signaling regulator 1 [Source:VGNC Symbol;Acc:VGNC:71363]	-	1.770460123	0.013903395	0.042556848
ENSMMUG00000008733	ubiquitin protein ligase E3C [Source:VGNC Symbol;Acc:VGNC:79049]	-	-0.78745791	3.02E-05	0.000206233
ENSMMUG00000009611	vasoactive intestinal peptide receptor 2 [Source:VGNC Symbol;Acc:VGNC:78772]	-	-1.16678054	2.72E-05	0.000187528
ENSMMUG00000052713	leucine rich repeat containing 14B [Source:NCBI gene;Acc:723071]	-	0.456184221	0.013759625	0.042207989
ENSMMUG00000003791	centrosomal protein 72 [Source:VGNC Symbol;Acc:VGNC:71099]	-	1.625994971	0.004456801	0.016258096
ENSMMUG00000052291		-	1.660367053	0.000469768	0.002342717
ENSMMUG00000061096	tubulin polymerization promoting protein [Source:NCBI gene;Acc:708834]	-	1.699256469	0.008741709	0.029013292
ENSMMUG00000014738	bromodomain containing 9 [Source:VGNC Symbol;Acc:VGNC:70386]	-	3.899518932	0.001207993	0.005323006
ENSMMUG00000019441	solute carrier family 12 member 7 [Source:VGNC Symbol;Acc:VGNC:77390]	-	1.030112786	4.86E-05	0.00031684
ENSMMUG00000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	-	0.924462732	1.04E-12	3.02E-11
ENSMMUG00000058051		-	0.636984985	0.009297539	0.03054351
ENSMMUG00000061176		-	0.408639086	0.000230734	0.001253267
ENSMMUG00000002561	NOP2/Sun RNA methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75466]	-	2.036879537	0.004074706	0.01506945
ENSMMUG00000018745	chromosome 6 C5orf49 homolog [Source:VGNC Symbol;Acc:VGNC:70646]	-	1.171455213	0.004329397	0.015887207
ENSMMUG00000018746	FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]	-	-1.2939426	9.96E-12	2.48E-10
ENSMMUG00000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]	-	1.363451039	1.04E-09	1.80E-08
ENSMMUG00000061922		-	0.327952633	0.00092861	0.004253057
ENSMMUG00000065128	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.841403693	4.21E-05	0.000279431
ENSMMUG00000055028		-	1.704561074	0.007784399	0.026208764
ENSMMUG00000009574	solute carrier family 45 member 2 [Source:VGNC Symbol;Acc:VGNC:82240]	-	0.669578037	0.011575547	0.036501894
ENSMMUG00000018739	sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]	-	4.324503009	1.21E-06	1.15E-05

ENSMMUG0000006202	solute carrier family 1 member 3 [Source:VGNC Symbol;Acc:VGNC:77411]	-	0.306567235	0.004448719	0.016240832
ENSMMUG00000052836		-	0.467133556	0.002813712	0.010998369
ENSMMUG00000018963	glial cell derived neurotrophic factor [Source:VGNC Symbol;Acc:VGNC:72912]	-	1.435202015	0.004984981	0.017919355
ENSMMUG00000017163	EGF like, fibronectin type III and laminin G domains [Source:VGNC Symbol;Acc:VGNC:72122]	-	0.508946995	0.005804477	0.020401277
ENSMMUG00000061318		-	3.810805387	0.000612497	0.002954171
ENSMMUG0000004774	maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]	-	2.514195307	1.97E-08	2.69E-07
ENSMMUG00000021034	complement C6 [Source:VGNC Symbol;Acc:VGNC:70477]	-	0.898759311	0.002341889	0.009422653
ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]	-	3.562905712	1.31E-24	1.51E-22
ENSMMUG00000055022	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	4.167093575	2.36E-06	2.08E-05
ENSMMUG00000011734	nicotinamide nucleotide transhydrogenase [Source:VGNC Symbol;Acc:VGNC:75363]	-	1.202358112	0.007730402	0.026061422
ENSMMUG00000047162	fibroblast growth factor 10 [Source:VGNC Symbol;Acc:VGNC:84378]	-	0.738732544	0.002856504	0.011141669
ENSMMUG00000016149	embigin [Source:VGNC Symbol;Acc:VGNC:72144]	-	4.108568188	8.25E-05	0.000504129
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]	-	1.912506005	9.15E-25	1.08E-22
ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]	-	2.098762126	1.72E-16	8.79E-15
ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]	-	1.553741375	2.21E-11	5.17E-10
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	-	2.639574851	9.26E-12	2.32E-10
ENSMMUG00000061973		-	2.654855604	1.35E-27	2.37E-25
ENSMMUG00000010466	solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]	-	2.446959474	1.18E-16	6.10E-15
ENSMMUG00000049885		-	0.547964427	0.008410307	0.027990071
ENSMMUG00000051661		-	1.150172816	0.001091654	0.004866413
ENSMMUG00000005181	RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]	-	1.582966434	1.94E-06	1.74E-05
ENSMMUG00000021812	ERCC excision repair 8, CSA ubiquitin ligase complex subunit [Source:VGNC Symbol;Acc:VGNC:72425]	-	0.848856836	1.85E-14	7.24E-13
ENSMMUG00000060505		-	1.169691931	0.000853649	0.003955786
ENSMMUG00000021131	regulator of G protein signaling 7 binding protein [Source:VGNC Symbol;Acc:VGNC:76808]	-	1.100975931	0.002575493	0.010196062
ENSMMUG00000015041	CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]	-	2.497624917	4.26E-06	3.54E-05
ENSMMUG00000051169		-	2.189053856	8.35E-05	0.000509461
ENSMMUG00000018100	ADAM metalloproteinase with thrombospondin type 1 motif 6 [Source:VGNC Symbol;Acc:VGNC:69500]	-	0.53351718	0.010017566	0.032491154
ENSMMUG00000016522	neurolysin [Source:VGNC Symbol;Acc:VGNC:75183]	-	0.621555683	8.94E-07	8.68E-06
ENSMMUG00000049935		-	1.173807164	1.38E-05	0.000102208
ENSMMUG00000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]	-	1.036435786	2.70E-10	5.23E-09
ENSMMUG00000009158	MARVEL domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74592]	-	0.437708603	0.003933819	0.014629299
ENSMMUG00000040485	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.653233561	0.000250702	0.0013478
ENSMMUG00000006217	general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]	-	0.864454464	0.00391737	0.014579316
ENSMMUG00000054237	Y RNA [Source:RFAM;Acc:RF00019]	-	1.691687752	0.001155577	0.005113832

ENSMMUG00000059671		1.299412961	1.57E-08	2.20E-07
ENSMMUG00000063792		0.652462554	9.10E-06	7.00E-05
		-		
ENSMMUG00000064344	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.154078756	0.003337103	0.012756107
ENSMMUG00000011061	ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]	0.771180063	2.56E-07	2.85E-06
ENSMMUG00000006139	3-hydroxy-3-methylglutaryl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:73484]	0.690274758	1.06E-08	1.54E-07
ENSMMUG00000006141	ceramide transporter 1 [Source:VGNC Symbol;Acc:VGNC:71298]	0.653550896	6.94E-06	5.51E-05
		-		
ENSMMUG00000019887	synaptic vesicle glycoprotein 2C [Source:VGNC Symbol;Acc:VGNC:78252]	0.689140318	0.011652721	0.036713278
		-		
ENSMMUG00000022982	IQ motif containing GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:73756]	1.484648186	0.001127417	0.005012006
		-		
ENSMMUG00000021354	corticotropin releasing hormone binding protein [Source:VGNC Symbol;Acc:VGNC:71491]	1.613066629	0.004486247	0.016345006
ENSMMUG00000021357	zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]	2.145755364	0.000107749	0.000637246
ENSMMUG00000006792	arylsulfatase B [Source:VGNC Symbol;Acc:VGNC:70023]	1.228880406	0.004150047	0.015296459
ENSMMUG00000036820	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	0.977869758	0.000119277	0.000699168
		-		
ENSMMUG00000051429		2.034961558	0.000333281	0.001726624
		-		
ENSMMUG00000018283	dihydrofolate reductase [Source:NCBI gene;Acc:711268]	1.511043913	0.003166484	0.012177559
		-		
ENSMMUG00000018284	mutS homolog 3 [Source:VGNC Symbol;Acc:VGNC:74932]	0.883945442	1.37E-06	1.28E-05
		-		
ENSMMUG00000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	1.759849587	1.28E-08	1.84E-07
		-		
ENSMMUG00000006932	creatine kinase, mitochondrial 2 [Source:VGNC Symbol;Acc:VGNC:71231]	1.155827364	0.00258971	0.010235621
		-		
ENSMMUG00000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	1.057053536	3.55E-08	4.64E-07
ENSMMUG00000046560	transmembrane protein 167A [Source:VGNC Symbol;Acc:VGNC:84513]	0.891691581	0.005770539	0.0203213
ENSMMUG00000064265	X-ray repair cross complementing 4 [Source:NCBI gene;Acc:712291]	0.829814246	0.000374504	0.001910904
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	2.080918382	4.75E-20	3.62E-18
ENSMMUG00000061282	hyaluronan and proteoglycan link protein 1 [Source:NCBI gene;Acc:712501]	3.809768072	0.00413241	0.015243047
		-		
ENSMMUG00000009319	transmembrane protein 161B [Source:VGNC Symbol;Acc:VGNC:84508]	1.373262113	4.37E-05	0.000288739
		-		
ENSMMUG00000019836	myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]	1.157606862	9.05E-05	0.000546734
		-		
ENSMMUG00000055392		1.211415308	0.000147593	0.000845375
		-		
ENSMMUG00000056790		2.958675732	0.006027871	0.02104904
		-		
ENSMMUG00000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	1.716648979	3.13E-34	1.06E-31
		-		
ENSMMUG00000055271		1.710969897	1.91E-07	2.18E-06
		-		
ENSMMUG00000018976	adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]	1.259469061	0.000305778	0.001602415
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	1.557752037	6.97E-13	2.07E-11
ENSMMUG00000010632	family with sequence similarity 81 member B [Source:VGNC Symbol;Acc:VGNC:72365]	2.650154998	0.006773117	0.023227606
		-		
ENSMMUG00000001209	arylsulfatase family member K [Source:VGNC Symbol;Acc:VGNC:84280]	0.872430006	0.002277016	0.009220775
		-		
ENSMMUG00000001211	G protein-coupled receptor 150 [Source:VGNC Symbol;Acc:VGNC:72988]	1.061550785	0.011021115	0.035103846
		-		
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	1.046702893	8.26E-20	6.03E-18

ENSMMUG0000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]	-	1.250356389	1.60E-09	2.71E-08
ENSMMUG00000011043	endoplasmic reticulum aminopeptidase 2 [Source:VGNC Symbol;Acc:VGNC:72141]	-	0.914273205	5.27E-21	4.40E-19
ENSMMUG00000065221		-	1.069285359	5.86E-12	1.52E-10
ENSMMUG00000000307	RIO kinase 2 [Source:VGNC Symbol;Acc:VGNC:76774]	-	0.350225887	2.33E-05	0.00016349
ENSMMUG00000054789	family with sequence similarity 174 member A [Source:NCBI gene;Acc:702300]	-	0.740296991	1.30E-06	1.22E-05
ENSMMUG00000007773	solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]	-	2.670159951	1.68E-06	1.53E-05
ENSMMUG00000029885	solute carrier organic anion transporter family member 6A1 [Source:VGNC Symbol;Acc:VGNC:77765]	-	2.578072119	0.005549032	0.01966511
ENSMMUG00000007787	diphosphoinositol pentakisphosphate kinase 2 [Source:VGNC Symbol;Acc:VGNC:76128]	-	0.546085561	0.00370543	0.013940434
ENSMMUG00000013183	F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]	-	-0.62006569	6.70E-05	0.000418157
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]	-	0.676638214	1.35E-08	1.92E-07
ENSMMUG00000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]	-	1.061711049	2.86E-07	3.15E-06
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	-	2.104088315	1.40E-13	4.62E-12
ENSMMUG00000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	-	2.184922297	2.57E-39	1.49E-36
ENSMMUG00000002768	neuronal regeneration related protein [Source:VGNC Symbol;Acc:VGNC:84454]	-	-2.5712845	0.010041224	0.032536177
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	-	1.395145911	4.26E-11	9.45E-10
ENSMMUG00000042951	signal recognition particle 19 [Source:NCBI gene;Acc:693829]	-	0.942939848	6.20E-06	4.97E-05
ENSMMUG00000020488	receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]	-	0.777519121	1.72E-07	1.99E-06
ENSMMUG00000005018	protein geranylgeranyltransferase type I subunit beta [Source:VGNC Symbol;Acc:VGNC:75965]	-	2.43301244	0.005046073	0.018107816
ENSMMUG00000015114	toll like receptor adaptor molecule 2 [Source:NCBI gene;Acc:100426353]	-	0.563919278	1.49E-09	2.53E-08
ENSMMUG00000060812	autophagy related 12 [Source:NCBI gene;Acc:696765]	-	1.193941908	5.96E-12	1.54E-10
ENSMMUG00000015288	adaptor related protein complex 3 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:69867]	-	0.940740358	7.11E-06	5.63E-05
ENSMMUG00000022192		-	0.908702737	0.001186696	0.005241874
ENSMMUG00000037127	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.281259231	0.007573127	0.025632258
ENSMMUG00000018640	Dmx like 1 [Source:VGNC Symbol;Acc:VGNC:71935]	-	0.649770079	0.014394689	0.043804813
ENSMMUG00000063474		-	0.577061195	1.57E-07	1.84E-06
ENSMMUG00000017685	hydroxysteroid 17-beta dehydrogenase 4 [Source:VGNC Symbol;Acc:VGNC:73530]	-	0.371875249	7.43E-06	5.85E-05
ENSMMUG00000059145		-	0.966201166	0.005825658	0.020460017
ENSMMUG00000018764		-	1.211295582	0.000665551	0.003179464
ENSMMUG00000063354		-	1.415990164	0.000922416	0.004228687
ENSMMUG00000053794		-	0.598245225	0.010028889	0.032513371
ENSMMUG00000021006	zinc finger protein 474 [Source:VGNC Symbol;Acc:VGNC:81617]	-	1.241329627	0.000547802	0.002677674
ENSMMUG00000046428		-	0.894561138	0.00217535	0.008880387
ENSMMUG00000023598	sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]	-	2.051992698	0.000288676	0.001525992
ENSMMUG00000006646	casein kinase 1 gamma 3 [Source:VGNC Symbol;Acc:VGNC:81384]	-	-0.49179035	0.014069411	0.042985924
ENSMMUG00000016683	phosphorylated adaptor for RNA export [Source:NCBI gene;Acc:702980]	-	1.513677645	0.000689294	0.003278881
ENSMMUG00000037806	chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]	-	-1.88325838	0.007981657	0.026747198

ENSMMUG00000011214	solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]	1.158538841	1.45E-05	0.000106655
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	-1.27220853	3.73E-13	1.15E-11
ENSMMUG00000058082		0.43343424	0.000297628	0.001563821
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	0.790547537	2.30E-06	2.04E-05
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	1.681339245	1.27E-13	4.23E-12
ENSMMUG00000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]	1.924434556	4.15E-08	5.37E-07
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	1.712351938	2.36E-22	2.20E-20
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	1.522883489	6.65E-10	1.21E-08
ENSMMUG00000010309	septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]	1.605314216	3.28E-06	2.80E-05
ENSMMUG00000039781	sosondowah ankyrin repeat domain family member A [Source:VGNC Symbol;Acc:VGNC:84498]	0.933118756	0.002561522	0.010151813
ENSMMUG00000010312	shroom family member 1 [Source:VGNC Symbol;Acc:VGNC:77299]	0.772662175	6.48E-05	0.00040619
ENSMMUG00000060221	growth differentiation factor 9 [Source:NCBI gene;Acc:712792]	0.902456954	8.21E-07	8.05E-06
ENSMMUG00000015640	AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]	0.835746748	4.82E-05	0.000314334
ENSMMUG00000026029	Y RNA [Source:RFAM;Acc:RF00019]	1.298084951	0.004000486	0.014847696
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	2.289146658	8.84E-32	2.18E-29
ENSMMUG00000053384		1.938495005	6.20E-20	4.60E-18
ENSMMUG00000004417	secretion associated Ras related GTPase 1B [Source:VGNC Symbol;Acc:VGNC:76970]	0.754012564	4.23E-11	9.40E-10
ENSMMUG00000012463	DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]	0.959122046	1.01E-06	9.77E-06
ENSMMUG00000060605		0.66389867	0.003426514	0.013049837
ENSMMUG00000000342	transient receptor potential cation channel subfamily C member 7 [Source:VGNC Symbol;Acc:VGNC:79280]	1.546921856	0.008696343	0.028869317
ENSMMUG00000016357	polycystin 2 like 2, transient receptor potential cation channel [Source:VGNC Symbol;Acc:VGNC:76009]	1.983482112	0.000412244	0.002088082
ENSMMUG00000008009	family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]	1.728026644	1.24E-10	2.55E-09
ENSMMUG00000005871	eukaryotic translation termination factor 1 [Source:VGNC Symbol;Acc:VGNC:84370]	0.430642083	0.005308612	0.018914531
ENSMMUG00000017985	catenin alpha 1 [Source:VGNC Symbol;Acc:VGNC:84291]	0.523334183	1.89E-05	0.000135196
ENSMMUG00000058902	leucine rich repeat transmembrane neuronal 2 [Source:NCBI gene;Acc:714713]	0.410923323	0.013091352	0.040450557
ENSMMUG00000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]	0.647097703	1.80E-12	5.02E-11
ENSMMUG00000014636	pleckstrin and Sec7 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76286]	0.730864214	0.002301871	0.009297621
ENSMMUG00000028372	Y RNA [Source:RFAM;Acc:RF00019]	2.918138888	0.000435946	0.002197415
ENSMMUG00000019582	ankyrin repeat and KH domain-containing protein 1 [Source:NCBI gene;Acc:698045]	0.316203123	0.002494436	0.009940135
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]	1.896315944	9.64E-26	1.30E-23
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	1.791623092	9.89E-10	1.72E-08
ENSMMUG00000062326		1.925508118	1.36E-12	3.87E-11
ENSMMUG00000024537		2.708993706	1.39E-06	1.30E-05
ENSMMUG00000010007	CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]	1.685393516	6.99E-07	7.00E-06
ENSMMUG00000060632		1.212193751	0.015123931	0.045575578
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]	1.312650093	8.69E-15	3.51E-13
ENSMMUG00000056796	NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]	1.652699485	0.001088492	0.004855295
ENSMMUG00000010008	IK cytokine [Source:VGNC Symbol;Acc:VGNC:73703]	1.424896038	5.55E-06	4.49E-05

ENSMMUG00000014571	protocadherin alpha-C2 [Source:NCBI gene;Acc:698874]	0.429686921	0.00047763	0.002375405
ENSMMUG00000008710	protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]	1.400291146	3.20E-06	2.74E-05
ENSMMUG00000006287	DAP3 binding cell death enhancer 1 [Source:VGNC Symbol;Acc:VGNC:71806]	0.591431183	7.67E-06	6.01E-05
ENSMMUG00000006291	protocadherin 12 [Source:VGNC Symbol;Acc:VGNC:75776]	0.943513075	1.66E-06	1.52E-05
ENSMMUG00000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]	0.692746345	1.27E-08	1.83E-07
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]	1.689788282	4.00E-10	7.62E-09
ENSMMUG000000050405		1.726132992	2.22E-10	4.38E-09
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]	1.485615596	2.25E-13	7.16E-12
ENSMMUG000000035921	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	1.497418994	0.005247863	0.018721027
ENSMMUG000000063348		0.701228899	0.000194387	0.001078142
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	0.661728269	7.94E-06	6.20E-05
ENSMMUG000000056140	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.143733643	0.004878864	0.017581569
ENSMMUG00000017714	Rho guanine nucleotide exchange factor 37 [Source:VGNC Symbol;Acc:VGNC:69941]	-0.79243498	0.011785839	0.037052495
ENSMMUG00000004749	PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]	2.831009667	2.30E-05	0.000161532
ENSMMUG00000011557	platelet derived growth factor receptor beta [Source:VGNC Symbol;Acc:VGNC:75929]	0.334505584	2.31E-08	3.13E-07
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	-0.89650272	1.04E-12	3.02E-11
ENSMMUG000000051062		0.697646161	0.004788325	0.01729818
ENSMMUG00000020679	myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]	1.485905659	4.37E-08	5.60E-07
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	2.174811329	9.73E-14	3.34E-12
ENSMMUG00000019764	dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]	1.725692699	6.10E-07	6.21E-06
ENSMMUG00000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]	1.087731326	2.05E-06	1.83E-05
ENSMMUG00000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]	1.094268975	5.14E-07	5.32E-06
ENSMMUG000000053656		0.844125997	6.02E-06	4.84E-05
ENSMMUG00000003499	solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]	0.834793553	0.000969746	0.004405376
ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]	0.791831866	6.05E-07	6.17E-06
ENSMMUG000000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	1.246704861	1.83E-15	8.27E-14
ENSMMUG000000054302	antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]	1.313819136	5.93E-06	4.78E-05
ENSMMUG000000056369	SAP30 like [Source:NCBI gene;Acc:714400]	3.200117149	0.005175469	0.018503638
ENSMMUG000000021228	gem nuclear organelle associated protein 5 [Source:VGNC Symbol;Acc:VGNC:72751]	0.609627852	0.000104975	0.000623123
ENSMMUG000000062861		0.953994463	0.000734199	0.003457417
ENSMMUG000000059241		5.626830117	3.28E-13	1.02E-11
ENSMMUG000000050043	adrenoceptor alpha 1B [Source:NCBI gene;Acc:695106]	1.014833606	0.01143658	0.036197161
ENSMMUG00000011472	PWWP domain containing 2A [Source:VGNC Symbol;Acc:VGNC:76564]	1.146999002	0.007898781	0.026524503
ENSMMUG00000015840	RAN binding protein 17 [Source:VGNC Symbol;Acc:VGNC:84485]	0.480493865	0.001012582	0.004573301
ENSMMUG00000003067	endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]	0.576480112	2.47E-06	2.17E-05
ENSMMUG00000019926	cytoplasmic polyadenylation element binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71450]	0.740792795	7.85E-06	6.13E-05
ENSMMUG000000053691	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.022997732	0.004497687	0.01638258
ENSMMUG00000009059	Fas associated factor family member 2 [Source:VGNC Symbol;Acc:VGNC:72332]	-1.62095802	0.000331224	0.001717192
ENSMMUG00000013283	cadherin related family member 2 [Source:NCBI gene;Acc:697249]	2.481973673	1.33E-08	1.90E-07
ENSMMUG00000013284	G protein regulated inducer of neurite outgrowth 1 [Source:VGNC Symbol;Acc:VGNC:72998]	2.402040368	0.002307151	0.009313819
ENSMMUG00000000137	synuclein beta [Source:VGNC Symbol;Acc:VGNC:77670]	3.713369238	0.000327389	0.001700342

ENSMMUG0000002649	unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]	-	2.278889958	0.001009843	0.004564703
ENSMMUG0000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	-	0.979812631	2.23E-10	4.39E-09
ENSMMUG00000009041	nuclear receptor binding SET domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75401]	-	1.012842464	0.001695947	0.007160612
ENSMMUG00000009045	RAB24, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81524]	-	1.571954101	0.000628767	0.003019619
ENSMMUG00000016192	lectin, mannose binding 2 [Source:VGNC Symbol;Acc:VGNC:74302]	-	0.418421234	0.012533189	0.039038991
ENSMMUG00000019807	regulator of G protein signaling 14 [Source:VGNC Symbol;Acc:VGNC:76918]	-	0.593947942	2.56E-07	2.84E-06
ENSMMUG00000016911	DEAD-box helicase 41 [Source:VGNC Symbol;Acc:VGNC:71660]	-	0.612641342	0.011275429	0.035772788
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	-	1.392730482	7.09E-25	8.59E-23
ENSMMUG00000041519	zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]	-	1.92874639	0.000127108	0.000739997
ENSMMUG00000049557		-	1.237048182	0.005263595	0.018767937
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	-	1.215215549	8.31E-10	1.48E-08
ENSMMUG000000054010		-	0.526229274	0.003412347	0.012999288
ENSMMUG000000031833	butyrophilin like 9 [Source:NCBI gene;Acc:106996463]	-	0.692501277	0.008221906	0.027468782
ENSMMUG000000062522		-	1.444025665	3.47E-10	6.67E-09
ENSMMUG000000059428	olfactory receptor 2V2 [Source:NCBI gene;Acc:707790]	-	0.863098076	0.013240111	0.040838423
ENSMMUG000000061151		-	1.594771943	4.55E-08	5.82E-07
ENSMMUG000000054414		-	1.859353651	1.26E-13	4.21E-12
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	-	1.401063891	4.50E-13	1.38E-11
ENSMMUG000000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	-	1.448986181	1.32E-18	8.60E-17
ENSMMUG000000057577		-	3.231209729	0.001568931	0.006684511
ENSMMUG000000039829		-	0.962720091	0.00039468	0.002005406
ENSMMUG00000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	-	0.866590501	2.17E-13	6.92E-12
ENSMMUG00000021044	afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]	-	0.83304979	5.55E-08	7.01E-07
ENSMMUG000000064719		-	1.392205451	0.003021731	0.011704478
ENSMMUG000000053990		-	0.996308087	0.002514806	0.010015817
ENSMMUG000000055611		-	0.669773166	0.006341274	0.021958813
ENSMMUG000000055168		-	0.613539014	0.000285375	0.001513496
ENSMMUG000000062443		-	1.394073384	4.44E-08	5.69E-07
ENSMMUG000000057859		-	-2.57714128	3.91E-08	5.08E-07
ENSMMUG00000029352	T-complex protein 10A homolog 2 [Source:NCBI gene;Acc:693619]	-	3.455014603	0.000459711	0.002300453
ENSMMUG00000005680	tubulin tyrosine ligase like 2 [Source:VGNC Symbol;Acc:VGNC:78421]	-	2.500171365	0.009115158	0.030060584
ENSMMUG00000008228	unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]	-	2.474410402	5.64E-07	5.79E-06
ENSMMUG000000057983		-	3.25035592	9.95E-05	0.000593623
ENSMMUG000000054834		-	0.513718634	7.95E-06	6.20E-05
ENSMMUG00000020412	parkin coregulated [Source:VGNC Symbol;Acc:VGNC:75646]	-	0.553571186	0.001000418	0.004528086
ENSMMUG00000004181	PARN like, ribonuclease domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76089]	-	1.350109358	0.007523677	0.025512407

ENSMMUG00000057544		-	0.894117154	0.000813691	0.003788105
ENSMMUG00000000500	fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72546]		0.363497364	0.014828755	0.044879489
ENSMMUG00000011994	T cell activation RhoGTPase activating protein [Source:VGNC Symbol;Acc:VGNC:78126]		0.760383888	0.000109045	0.000643861
ENSMMUG00000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]		2.018828029	2.55E-14	9.81E-13
ENSMMUG00000007010	coiled-coil domain-containing protein 162-like [Source:NCBI gene;Acc:700544]		1.691365366	0.001021311	0.004606516
ENSMMUG00000021534	solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]		1.856050594	0.000101123	0.000601978
ENSMMUG00000013782	laminin subunit alpha 4 [Source:VGNC Symbol;Acc:VGNC:74227]		0.367338136	0.003177436	0.012213216
ENSMMUG00000061031			2.902559441	4.50E-17	2.44E-15
ENSMMUG00000058557			1.566338212	3.57E-07	3.84E-06
ENSMMUG00000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]		1.953369901	6.89E-12	1.77E-10
ENSMMUG00000059327	NUS1 dehydrodolichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]		0.810219754	5.82E-09	8.89E-08
ENSMMUG00000008525	minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]		2.628111913	2.54E-05	0.000176694
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]		3.700903797	4.30E-08	5.52E-07
ENSMMUG00000005225	gap junction protein alpha 1 [Source:VGNC Symbol;Acc:VGNC:73055]		0.728076201	0.000130669	0.000759209
ENSMMUG00000061165			0.588774258	1.58E-05	0.000115009
ENSMMUG00000051170			0.817997184	0.008752283	0.029041759
ENSMMUG00000060822			0.783988289	2.37E-08	3.20E-07
ENSMMUG00000018176	clavesin 2 [Source:VGNC Symbol;Acc:VGNC:71322]		0.894344844	1.03E-06	9.92E-06
ENSMMUG00000009725	triadin [Source:HGNC Symbol;Acc:HGNC:12261]		0.8255173	1.33E-09	2.28E-08
ENSMMUG00000065276			0.551308894	0.001020092	0.004602445
ENSMMUG00000003134	ring finger protein 217 [Source:VGNC Symbol;Acc:VGNC:76801]		0.902407725	0.000170232	0.000957318
ENSMMUG00000062110	TPD52 like 1 [Source:NCBI gene;Acc:716568]		0.896947486	0.001202236	0.005300851
ENSMMUG00000060901			1.465879711	1.99E-21	1.73E-19
ENSMMUG00000015355	R-spondin 3 [Source:VGNC Symbol;Acc:VGNC:77066]		2.054307168	0.001188934	0.005250162
ENSMMUG00000048882	KIAA0408 ortholog [Source:NCBI gene;Acc:100429459]		0.575066584	4.01E-06	3.35E-05
ENSMMUG00000029421	protein tyrosine phosphatase receptor type K [Source:VGNC Symbol;Acc:VGNC:83453]		1.116712864	0.005356405	0.019061458
ENSMMUG00000058574			0.943004315	1.07E-05	8.17E-05
ENSMMUG00000022136	laminin subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:74225]		0.474863328	8.50E-05	0.000517524
ENSMMUG00000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]		1.170097766	2.85E-11	6.53E-10
ENSMMUG00000021499	sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]		0.803606133	0.000189706	0.001056208
ENSMMUG00000059338	Y RNA [Source:RFAM;Acc:RF00019]		1.316529761	0.002072376	0.008521744
ENSMMUG00000065212			1.197230635	1.81E-07	2.08E-06
ENSMMUG00000059491			0.696713301	0.000162421	0.000917733
ENSMMUG00000017549	ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]		0.890415681	9.56E-06	7.34E-05
ENSMMUG00000004996	monooxygenase DBH like 1 [Source:VGNC Symbol;Acc:VGNC:74800]		0.53750627	0.003682751	0.013862285
ENSMMUG00000004988	trace amine-associated receptor 3 [Source:NCBI gene;Acc:709130]		0.859304246	0.000917379	0.004207382
ENSMMUG00000004987	trace amine associated receptor 2 [Source:VGNC Symbol;Acc:VGNC:83475]		0.819033151	0.004041179	0.014967292

ENSMMUG00000013236	solute carrier family 18 member B1 [Source:VGNC Symbol;Acc:VGNC:77549]	-	0.621759864	0.008796001	0.029146903
ENSMMUG00000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	-	1.026870452	4.60E-09	7.12E-08
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	-	3.629336473	4.78E-40	3.66E-37
ENSMMUG000000061787		-	2.287999067	0.006359115	0.02201535
ENSMMUG000000053927		-	0.642069599	0.007028345	0.023995079
ENSMMUG00000018166	MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]	-	0.938593906	8.91E-09	1.32E-07
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	-	0.690146966	8.11E-06	6.30E-05
ENSMMUG00000044284	40S ribosomal protein S11-like [Source:NCBI gene;Acc:706532]	-	0.755158201	0.002072841	0.008521744
ENSMMUG000000053936		-	0.527967156	0.011717423	0.03688527
ENSMMUG00000016376	mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]	-	0.890271641	0.001552274	0.006617421
ENSMMUG00000048283	mml-mir-3145 [Source:miRBase;Acc:MI0020897]	-	1.168292104	0.009320983	0.03058671
ENSMMUG00000000224	RALBP1 associated Eps domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76738]	-	1.381831793	0.012083882	0.037858489
ENSMMUG00000019136	taxilin beta [Source:VGNC Symbol;Acc:VGNC:79325]	-	0.541933274	1.40E-06	1.30E-05
ENSMMUG00000046765		-	0.738979189	0.012628748	0.039252537
ENSMMUG000000058187		-	1.151468791	1.16E-14	4.56E-13
ENSMMUG00000023012	vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]	-	1.368038641	7.88E-05	0.000483301
ENSMMUG00000044958	adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]	-	1.181551298	1.03E-09	1.80E-08
ENSMMUG00000064366		-	0.919805463	0.012401759	0.03872087
ENSMMUG00000061117		-	1.113643964	3.61E-07	3.88E-06
ENSMMUG00000007998	HIVEP zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:83427]	-	0.616839797	0.003355612	0.012813377
ENSMMUG00000006430	androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:69667]	-	0.834082258	0.011873367	0.037303466
ENSMMUG00000005348	LTV1 ribosome biogenesis factor [Source:VGNC Symbol;Acc:VGNC:83430]	-	2.478969127	0.002439469	0.009753181
ENSMMUG00000003750	PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]	-	1.772681584	2.54E-06	2.21E-05
ENSMMUG00000019443	syntaxin 11 [Source:VGNC Symbol;Acc:VGNC:78041]	-	3.717963443	0.000101813	0.000605833
ENSMMUG00000019438	utrophin [Source:VGNC Symbol;Acc:VGNC:78749]	-	0.889723518	0.002839804	0.011085456
ENSMMUG00000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	-	2.167627463	1.03E-11	2.55E-10
ENSMMUG00000060839		-	3.306930311	0.005656335	0.019986907
ENSMMUG00000029475	zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]	-	2.090996737	3.91E-06	3.28E-05
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	-	2.480412823	2.42E-13	7.68E-12
ENSMMUG00000060940	acidic residue methyltransferase 1 [Source:NCBI gene;Acc:704570]	-	1.914933217	0.00049997	0.002470451
ENSMMUG00000059807	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.199359398	0.005190893	0.018549657
ENSMMUG00000018346	coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]	-	2.165343702	2.69E-07	2.98E-06
ENSMMUG00000025949	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	3.076627053	0.002960998	0.011506023
ENSMMUG00000019045	estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]	-	1.252534443	7.52E-07	7.44E-06
ENSMMUG00000013483	prolyl endopeptidase [Source:VGNC Symbol;Acc:VGNC:76396]	-	0.646679691	0.002202715	0.008976976
ENSMMUG00000055978		-	0.673146822	0.000452566	0.002271737
ENSMMUG00000057697		-	1.304101648	6.33E-07	6.39E-06

ENSMMUG00000051522	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.454432688	0.001060835	0.004758212
ENSMMUG00000051271		3.354112294	3.75E-21	3.18E-19
ENSMMUG00000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	1.108107386	1.94E-23	1.95E-21
ENSMMUG00000050740	coenzyme Q3, methyltransferase [Source:NCBI gene;Acc:694215]	1.051031414	0.010960997	0.03495065
ENSMMUG00000005923	failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]	0.887553122	0.007694296	0.025987913
ENSMMUG00000037890		1.091449987	0.003070415	0.011870912
ENSMMUG00000003464	midasin AAA ATPase 1 [Source:VGNC Symbol;Acc:VGNC:74530]	0.257537713	0.004768056	0.017229241
ENSMMUG00000003462	ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]	0.519719131	2.63E-05	0.000182054
ENSMMUG00000060841		-0.96862728	0.002852121	0.01112756
ENSMMUG00000002824	akirin 2 [Source:VGNC Symbol;Acc:VGNC:69665]	0.717241081	0.013726582	0.042115519
ENSMMUG00000002821	origin recognition complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:75715]	0.633452256	0.009197847	0.03027833
ENSMMUG00000045108	cilia and flagella associated protein 206 [Source:NCBI gene;Acc:700665]	3.289681266	0.009596325	0.03132056
ENSMMUG00000064804		-1.38493253	1.58E-07	1.84E-06
ENSMMUG00000005442	5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]	1.532775347	7.23E-10	1.30E-08
ENSMMUG00000061590		2.247659464	8.55E-05	0.000519465
ENSMMUG00000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	-1.86226433	2.36E-09	3.85E-08
ENSMMUG00000004491	SUMO specific peptidase 6 [Source:VGNC Symbol;Acc:VGNC:77287]	0.295048622	0.002937125	0.011428529
ENSMMUG00000017806	CD109 molecule [Source:VGNC Symbol;Acc:VGNC:70834]	0.668193435	4.16E-08	5.37E-07
ENSMMUG00000008133	solute carrier family 17 member 5 [Source:VGNC Symbol;Acc:VGNC:77405]	0.706919489	3.02E-08	3.99E-07
ENSMMUG00000053928		0.586550331	0.00390939	0.014560801
ENSMMUG00000041338	eyes shut homolog [Source:HGNC Symbol;Acc:HGNC:21555]	0.332215318	0.003892512	0.01450537
ENSMMUG00000017160	PHD finger protein 3 [Source:VGNC Symbol;Acc:VGNC:75975]	0.475952161	0.011123823	0.035368114
ENSMMUG00000062339	endogenous retrovirus group K member 25 Env polyprotein-like [Source:NCBI gene;Acc:114677579]	0.615404807	0.007939491	0.026642748
ENSMMUG00000002777	protein tyrosine phosphatase 4A1 [Source:VGNC Symbol;Acc:VGNC:83452]	0.379129995	0.007730301	0.026061422
ENSMMUG00000050075		3.112874736	0.006773187	0.023227606
ENSMMUG00000001399	3-hydroxymethyl-3-methylglutaryl-CoA lyase like 1 [Source:VGNC Symbol;Acc:VGNC:73429]	0.506645071	0.002256453	0.009152359
ENSMMUG00000001395	hypocretin receptor 2 [Source:VGNC Symbol;Acc:VGNC:73357]	3.181019451	0.002275483	0.009219259
ENSMMUG00000036060	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.08320977	0.000369638	0.001889752
ENSMMUG00000012784	tubulointerstitial nephritis antigen [Source:VGNC Symbol;Acc:VGNC:78382]	1.854770316	0.00127318	0.005572853
ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	2.193480894	1.72E-11	4.12E-10
ENSMMUG00000011049	leucine rich repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:81087]	1.672020069	1.14E-06	1.09E-05
ENSMMUG00000006422	ELOVL fatty acid elongase 5 [Source:VGNC Symbol;Acc:VGNC:72083]	1.196526057	0.016479329	0.048939736
ENSMMUG00000013718	translocation associated membrane protein 2 [Source:VGNC Symbol;Acc:VGNC:83515]	0.815946998	3.86E-06	3.25E-05

ENSMMUG00000013716	EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72052]	-	0.568857221	0.000698933	0.003318222
ENSMMUG00000052626	progesterone and adiponectin receptor family member 8 [Source:NCBI gene;Acc:708418]	-	0.616937731	4.27E-06	3.54E-05
ENSMMUG00000026975	mml-mir-206 [Source:miRBase;Acc:MI0007667]	-	5.348939206	1.99E-05	0.000142025
ENSMMUG00000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	-	2.454963506	4.83E-13	1.46E-11
ENSMMUG00000038096	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.326475478	0.01018774	0.032918243
ENSMMUG00000053984		-	3.421991607	7.64E-11	1.63E-09
ENSMMUG00000056168		-	4.298842591	1.62E-05	0.000117471
ENSMMUG00000055199	cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]	-	2.631586218	1.71E-10	3.45E-09
ENSMMUG00000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	-	2.102460491	9.08E-10	1.60E-08
ENSMMUG00000042260	ectonucleotide pyrophosphatase/phosphodiesterase 4 [Source:VGNC Symbol;Acc:VGNC:81066]	-	2.008611431	0.014449706	0.043908914
ENSMMUG00000003511	chloride intracellular channel 5 [Source:VGNC Symbol;Acc:VGNC:71171]	-	0.526299643	0.005038355	0.01808905
ENSMMUG00000051732		-	2.424970167	0.011492085	0.036327922
ENSMMUG00000021377	SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]	-	1.004886269	3.25E-07	3.53E-06
ENSMMUG00000060503	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.802882383	0.008756088	0.029047753
ENSMMUG00000063288		-	-0.61786748	0.000154112	0.000877184
ENSMMUG00000013920	triggering receptor expressed on myeloid cells 2 [Source:VGNC Symbol;Acc:VGNC:79089]	-	1.031837886	8.26E-05	0.000504573
ENSMMUG00000062538	adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]	-	0.972310907	0.00011134	0.000655546
ENSMMUG00000021173	nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]	-	0.878546667	2.22E-12	6.15E-11
ENSMMUG00000021169	translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]	-	0.778241054	6.17E-05	0.00038918
ENSMMUG00000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	-	0.901196247	3.28E-12	8.83E-11
ENSMMUG00000013651	kinesin family member 6 [Source:VGNC Symbol;Acc:VGNC:73873]	-	3.449495401	0.000182659	0.001019704
ENSMMUG00000013648	potassium two pore domain channel subfamily K member 16 [Source:VGNC Symbol;Acc:VGNC:73827]	-	2.986214934	0.002169553	0.008869178
ENSMMUG00000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	-	2.29522587	1.07E-11	2.65E-10
ENSMMUG00000023381	dynein axonemal heavy chain 8 [Source:VGNC Symbol;Acc:VGNC:71943]	-	0.570275453	1.63E-06	1.49E-05
ENSMMUG00000062055	glyoxalase I [Source:NCBI gene;Acc:719518]	-	0.779267563	2.19E-10	4.32E-09
ENSMMUG00000011575	coiled-coil domain containing 167 [Source:VGNC Symbol;Acc:VGNC:70833]	-	1.979320188	0.000137236	0.000792294
ENSMMUG00000011573	cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]	-	1.375541276	1.41E-05	0.00010457
ENSMMUG00000063198		-	4.231768626	6.28E-13	1.87E-11
ENSMMUG00000055914		-	1.309540592	1.20E-06	1.13E-05
ENSMMUG00000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	-	1.441710167	1.00E-08	1.47E-07
ENSMMUG00000023823	Y RNA [Source:RFAM;Acc:RF00019]	-	4.295468668	0.000781887	0.003650062
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	-	2.98982407	4.70E-09	7.26E-08
ENSMMUG00000007811	protein kinase C and casein kinase substrate in neurons 1 [Source:VGNC Symbol;Acc:VGNC:75744]	-	0.422544879	0.015926168	0.047539776
ENSMMUG00000004287	death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]	-	-0.90845433	0.000226966	0.00123573
ENSMMUG00000003869	WD repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:78940]	-	1.077888343	0.000153242	0.000873204
ENSMMUG00000003864	VPS52 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:78551]	-	0.572306836	0.010310183	0.033247367
ENSMMUG00000003867	ribosomal protein S18 [Source:NCBI gene;Acc:706414]	-	1.115117113	0.015351203	0.046136124

ENSMMUG0000003858	retinoid X receptor beta [Source:VGNC Symbol;Acc:VGNC:76952]	-	0.738017787	0.000703688	0.003337522
ENSMMUG0000003850	collagen type XI alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71290]	-	0.735665397	2.16E-06	1.92E-05
ENSMMUG00000019371	major histocompatibility complex, class II, DP alpha [Source:NCBI gene;Acc:717992]	-	1.168526086	0.004169648	0.015357023
ENSMMUG00000023138	bromodomain containing 2 [Source:VGNC Symbol;Acc:VGNC:83422]	-	1.592424992	0.003693155	0.013897851
ENSMMUG00000018461	notch receptor 4 [Source:VGNC Symbol;Acc:VGNC:75372]	-	1.316942551	0.000103365	0.000614313
ENSMMUG00000018459	G protein signaling modulator 3 [Source:VGNC Symbol;Acc:VGNC:72938]	-	1.054616807	0.007477942	0.02540473
ENSMMUG00000018456	PBX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:75771]	-	1.013872766	0.011492888	0.036327922
ENSMMUG00000018434	1-acylglycerol-3-phosphate O-acyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:69745]	-	0.917931791	0.013851129	0.042438875
ENSMMUG00000064499		-	2.258529822	0.016641709	0.049347839
ENSMMUG00000006828	valyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:78755]	-	1.875646677	0.00215425	0.008814054
ENSMMUG00000006827	von Willebrand factor A domain containing 7 [Source:VGNC Symbol;Acc:VGNC:78941]	-	2.566469235	0.000998062	0.00452129
ENSMMUG00000009702	mutS homolog 5 [Source:NCBI gene;Acc:715494]	-	1.503073271	0.003669038	0.013824987
ENSMMUG00000058534		-	2.992921345	3.15E-09	5.03E-08
ENSMMUG00000015693	lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]	-	2.557526189	2.18E-10	4.30E-09
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	-	2.352242281	6.66E-20	4.91E-18
ENSMMUG00000039268	lymphocyte antigen 6G6e-like [Source:NCBI gene;Acc:100427419]	-	2.613589535	0.014885188	0.044986689
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	-	2.232600112	5.49E-36	2.57E-33
ENSMMUG00000054159	lymphocyte antigen 6 family member G5C [Source:VGNC Symbol;Acc:VGNC:83431]	-	2.575556638	0.000328256	0.001704233
ENSMMUG00000005294	casein kinase 2 beta [Source:NCBI gene;Acc:715807]	-	2.460256122	2.22E-11	5.17E-10
ENSMMUG00000005293	G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]	-	2.630445656	2.35E-09	3.85E-08
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	-	2.369046144	2.12E-39	1.34E-36
ENSMMUG00000005303	apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]	-	2.588624531	2.44E-07	2.72E-06
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	-	2.045813591	7.22E-30	1.61E-27
ENSMMUG00000025918	small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]	-	2.44861182	6.22E-06	4.98E-05
ENSMMUG00000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	-	2.243355339	3.51E-28	6.45E-26
ENSMMUG00000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	-	2.447342656	1.79E-27	3.05E-25
ENSMMUG00000008853	leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:HGNC:14189]	-	1.558505292	0.006125298	0.021302263
ENSMMUG00000045654	tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]	-	1.745231989	0.000166942	0.000940632
ENSMMUG00000052422	ATPase H+ transporting V1 subunit G2 [Source:NCBI gene;Acc:715331]	-	4.052199927	0.000328375	0.001704245
ENSMMUG00000008839	DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]	-	1.689733886	1.30E-05	9.67E-05
ENSMMUG00000026474	Small nucleolar RNA SNORD83 [Source:RFAM;Acc:RF00137]	-	3.05932	0.007527419	0.025513893
ENSMMUG00000019961	protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]	-	3.472513165	0.000186123	0.001037453
ENSMMUG00000053627		-	2.833216564	0.000138903	0.000800328
ENSMMUG00000011682	ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]	-	3.368585251	1.66E-06	1.52E-05
ENSMMUG00000060527		-	1.507164708	1.86E-08	2.55E-07
ENSMMUG00000023679	tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]	-	1.408175415	3.72E-08	4.84E-07
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]	-	1.270420024	1.48E-08	2.08E-07
ENSMMUG00000012129	tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]	-	1.258718267	3.82E-09	6.00E-08

ENSMMUG00000058580	tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]	1.060395381	0.000472811	0.002355466
ENSMMUG00000062264		1.384283365	2.78E-05	0.000191245
ENSMMUG00000012124	ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]	1.467108455	1.16E-06	1.10E-05
ENSMMUG00000012120	zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]	1.429766935	7.15E-07	7.13E-06
ENSMMUG00000055272	putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]	1.047839339	0.007657766	0.02588859
ENSMMUG00000056544		1.395991159	0.004354416	0.015952658
ENSMMUG00000037625		-1.54563748	2.07E-06	1.84E-05
ENSMMUG00000053561		3.831668694	1.51E-05	0.000110658
ENSMMUG00000029883	olfactory receptor, family 2, subfamily J, member 3 [Source:NCBI gene;Acc:708943]	3.598370291	7.43E-05	0.000459706
ENSMMUG00000059442		2.037110464	0.001517628	0.006488752
ENSMMUG00000005415	olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]	1.860029029	0.014938783	0.045111152
ENSMMUG00000004617	glutathione peroxidase 6 [Source:VGNC Symbol;Acc:VGNC:73154]	0.707990985	0.012458306	0.038864032
ENSMMUG00000012396	zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]	0.912348361	1.91E-06	1.72E-05
ENSMMUG00000011675	zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]	0.963553255	8.62E-10	1.53E-08
ENSMMUG00000005964	CMP-N-acetylneuraminic acid hydroxylase [Source:NCBI gene;Acc:574186]	1.041111898	0.000571347	0.002776886
ENSMMUG00000049021	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.386192866	5.10E-05	0.000330209
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	1.354009396	1.30E-20	1.06E-18
ENSMMUG00000051037		4.297112117	1.16E-17	6.70E-16
ENSMMUG00000054532		1.111912506	5.22E-05	0.000336802
ENSMMUG00000052442		0.836991837	1.69E-07	1.95E-06
ENSMMUG00000063576	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.229675309	0.000789703	0.003683002
ENSMMUG00000052333		0.613847348	0.002229386	0.009062805
ENSMMUG00000052891		1.760737212	7.27E-12	1.85E-10
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	1.390333375	1.18E-11	2.90E-10
ENSMMUG00000044473		1.182662616	7.61E-08	9.33E-07
ENSMMUG00000009922	mitochondrial calcium uniporter regulator 1 [Source:VGNC Symbol;Acc:VGNC:81471]	0.765600134	0.000308318	0.00161398
ENSMMUG00000020122	RAN binding protein 9 [Source:VGNC Symbol;Acc:VGNC:76475]	0.567271851	0.004668496	0.016915735
ENSMMUG00000008681	nucleolar protein 7 [Source:VGNC Symbol;Acc:VGNC:75226]	1.111540108	0.004319099	0.015855239
ENSMMUG00000020040	phosphatase and actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:75841]	1.192187733	0.000297884	0.001564182
ENSMMUG00000058800		1.193099664	1.47E-10	2.99E-09
ENSMMUG00000016135	neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]	-1.16896525	2.71E-07	2.99E-06
ENSMMUG00000046520	small integral membrane protein 13 [Source:NCBI gene;Acc:703387]	0.613809284	0.010321446	0.033268928
ENSMMUG00000043161	endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]	1.304945507	6.15E-07	6.25E-06
ENSMMUG00000063667		3.016201982	0.014393956	0.043804813

ENSMMUG0000005532	male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]	0.669647747	0.000287624	0.001522159
ENSMMUG00000018788	transmembrane protein 14B [Source:NCBI gene;Acc:698237]	0.552850124	0.006850311	0.023436803
ENSMMUG00000018787	PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]	0.94737254	3.92E-08	5.08E-07
ENSMMUG00000061586	chromosome 4 C6orf52 homolog [Source:NCBI gene;Acc:702114]	0.955552705	5.53E-07	5.69E-06
ENSMMUG00000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	-1.29511167	2.41E-19	1.71E-17
ENSMMUG00000044859		-	-	-
		1.254817719	0.007557074	0.025595804
ENSMMUG00000021600	bone morphogenetic protein 6 [Source:VGNC Symbol;Acc:VGNC:70265]	0.719662118	0.007971807	0.026726512
ENSMMUG00000015577	RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]	0.936621364	0.001260643	0.005529861
ENSMMUG00000016352	phenylalanyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:72545]	0.608287314	0.01153438	0.036411569
ENSMMUG00000060973		0.517713274	0.00266373	0.010476906
ENSMMUG00000023558	exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]	1.138861836	0.009093879	0.030004023
ENSMMUG00000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	1.266128656	4.97E-26	6.95E-24
ENSMMUG00000003013	NIPA magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:75196]	3.571898805	0.012482544	0.038914593
ENSMMUG00000052887		1.968758586	0.004668091	0.016915735
ENSMMUG00000062676		0.991585758	0.000393021	0.001997671
ENSMMUG00000054713		-0.98677208	0.002578114	0.010200881
ENSMMUG00000065031		1.359976842	4.89E-10	9.16E-09
ENSMMUG00000023139	small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]	2.712590626	4.85E-09	7.47E-08
ENSMMUG00000051503	nuclear pore associated protein 1 [Source:NCBI gene;Acc:719891]	2.807570107	1.31E-05	9.80E-05
ENSMMUG00000019483	putative golgin subfamily A member 8D [Source:NCBI gene;Acc:100430266]	1.959422724	0.013957071	0.042696536
ENSMMUG00000021656	golgin subfamily A member 8S [Source:NCBI gene;Acc:722977]	-2.82820888	0.003107343	0.011988175
ENSMMUG00000054315		3.524374917	1.99E-09	3.29E-08
ENSMMUG00000055117		2.843431488	2.34E-08	3.17E-07
ENSMMUG00000063268		1.744729634	4.15E-06	3.46E-05
ENSMMUG00000058136	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.395667908	0.015688749	0.046966092
ENSMMUG00000009430	transient receptor potential cation channel subfamily M member 1 [Source:VGNC Symbol;Acc:VGNC:79964]	0.527812003	1.47E-06	1.36E-05
ENSMMUG00000005270	ryanodine receptor 3 [Source:NCBI gene;Acc:694996]	0.500860139	1.19E-06	1.13E-05
ENSMMUG00000014227	cholinergic receptor muscarinic 5 [Source:VGNC Symbol;Acc:VGNC:71044]	3.022022669	0.014332247	0.043660493
ENSMMUG00000002337	aquarius intron-binding spliceosomal factor [Source:VGNC Symbol;Acc:VGNC:69925]	0.676038465	0.013515226	0.041563538
ENSMMUG00000046486	zinc finger protein 770 [Source:NCBI gene;Acc:697740]	0.541358688	0.015507099	0.046540199
ENSMMUG00000063659		1.345448109	0.000169535	0.000954136
ENSMMUG00000051611		1.472364776	0.014919872	0.045063407
ENSMMUG00000049271		1.544829406	0.009824201	0.031970989
ENSMMUG00000060667		1.396875625	0.000494959	0.00244902
ENSMMUG00000018332	family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]	1.235237733	1.18E-08	1.71E-07
ENSMMUG00000006035	thrombospondin 1 [Source:VGNC Symbol;Acc:VGNC:78344]	-2.13493814	0.004357618	0.015960365
ENSMMUG00000016686	BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]	0.524526302	0.007567103	0.025621655

ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	2.487448708	1.96E-28	3.84E-26
ENSMMUG00000020539	coiled-coil domain containing 9B [Source:VGNC Symbol;Acc:VGNC:70920]	0.659642767	0.00129517	0.00565402
ENSMMUG00000012408	dispatched RND transporter family member 2 [Source:VGNC Symbol;Acc:VGNC:71676]	0.770299045	0.000120303	0.000704045
ENSMMUG00000058981	kinetochore localized astrin (SPAG5) binding protein [Source:NCBI gene;Acc:702753]	0.651693969	0.000526482	0.002586506
ENSMMUG00000043229	carbohydrate sulfotransferase 14 [Source:NCBI gene;Acc:703115]	1.160476465	0.001026737	0.004626684
ENSMMUG00000048910	kinetochore scaffold 1 [Source:VGNC Symbol;Acc:VGNC:84366]	0.626820363	0.001423892	0.00613489
ENSMMUG00000000306	regulator of microtubule dynamics 3 [Source:VGNC Symbol;Acc:VGNC:76821]	0.792897404	0.003528221	0.013360186
ENSMMUG00000013160	DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]	1.590280261	0.000111687	0.000657324
ENSMMUG00000014541	delta like canonical Notch ligand 4 [Source:VGNC Symbol;Acc:VGNC:71926]	0.418885973	0.007867736	0.026432466
ENSMMUG00000010168	MAX dimerization protein MGA [Source:VGNC Symbol;Acc:VGNC:84390]	0.333879153	0.011507766	0.036351238
ENSMMUG00000015449	phospholipase A2 group IVF [Source:VGNC Symbol;Acc:VGNC:76123]	0.572897663	9.96E-05	0.000594189
ENSMMUG00000001532	glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]	0.746078611	7.37E-09	1.11E-07
ENSMMUG00000001534	calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]	0.67713687	0.000284845	0.001511236
ENSMMUG00000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]	1.377892536	2.62E-27	4.37E-25
ENSMMUG00000064341	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.398004058	0.00053069	0.00260278
ENSMMUG00000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	0.967989629	6.34E-14	2.24E-12
ENSMMUG00000015123	codanin 1 [Source:VGNC Symbol;Acc:VGNC:70788]	0.638960924	0.000525202	0.002581089
ENSMMUG00000010036	tau tubulin kinase 2 [Source:VGNC Symbol;Acc:VGNC:81598]	-0.52538397	0.001044276	0.004696978
ENSMMUG00000006498	ubiquitin protein ligase E3 component n-recognin 1 [Source:VGNC Symbol;Acc:VGNC:79051]	0.366648101	0.000152844	0.000871331
ENSMMUG00000022256	transglutaminase 5 [Source:VGNC Symbol;Acc:VGNC:78341]	0.695293193	0.004553448	0.016552505
ENSMMUG00000022251	transglutaminase 7 [Source:VGNC Symbol;Acc:VGNC:79880]	0.466931788	1.67E-05	0.000120801
ENSMMUG00000055498	leucine carboxyl methyltransferase 2 [Source:NCBI gene;Acc:710047]	0.767781201	0.001630129	0.006918886
ENSMMUG00000017067	adenosine deaminase like [Source:VGNC Symbol;Acc:VGNC:69555]	0.642501847	0.000347901	0.00179469
ENSMMUG00000017070	zinc finger and SCAN domain containing 29 [Source:VGNC Symbol;Acc:VGNC:79633]	1.144498855	2.12E-09	3.49E-08
ENSMMUG00000017076	tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]	1.277822256	9.19E-09	1.35E-07
ENSMMUG00000007255	microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]	-1.34318789	0.000583526	0.00282946
ENSMMUG00000007860	diphosphoinositol pentakisphosphate kinase 1 [Source:VGNC Symbol;Acc:VGNC:76127]	0.665273975	0.00944231	0.030924165
ENSMMUG00000007870	creatine kinase U-type, mitochondrial [Source:NCBI gene;Acc:114669858]	0.446207456	0.000291525	0.001536584
ENSMMUG00000021840	stereocilin [Source:NCBI gene;Acc:106996176]	0.647198924	4.97E-06	4.07E-05
ENSMMUG00000016742	CTD small phosphatase like 2 [Source:VGNC Symbol;Acc:VGNC:71593]	0.635621596	3.66E-07	3.93E-06
ENSMMUG00000014288	eukaryotic translation initiation factor 3 subunit J [Source:VGNC Symbol;Acc:VGNC:72188]	0.481669159	0.002671167	0.010494798
ENSMMUG00000014291	SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]	1.373209504	1.11E-10	2.31E-09
ENSMMUG00000001284	solute carrier family 28 member 2 [Source:VGNC Symbol;Acc:VGNC:77445]	0.507828894	0.011523667	0.036385652
ENSMMUG00000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	1.866373593	5.23E-16	2.56E-14
ENSMMUG000000049265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.706834545	1.27E-05	9.55E-05
ENSMMUG000000062254		1.718411721	3.11E-06	2.67E-05

ENSMMUG00000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]	1.039831711	4.35E-07	4.60E-06
ENSMMUG00000009838	COP9 signalosome subunit 2 [Source:VGNC Symbol;Acc:VGNC:71376]	0.632613344	0.002395282	0.009592344
ENSMMUG00000009839	galactokinase 2 [Source:VGNC Symbol;Acc:VGNC:72870]	1.013964277	0.000119754	0.000701115
ENSMMUG00000009840	family with sequence similarity 227 member B [Source:VGNC Symbol;Acc:VGNC:72370]	1.138253164	3.08E-06	2.65E-05
ENSMMUG00000013496	DTW domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72017]	3.115338403	0.00147491	0.006325479
ENSMMUG00000056522		1.54073356	4.01E-05	0.000267296
ENSMMUG00000050608		1.433649437	6.47E-09	9.81E-08
ENSMMUG00000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	1.513395115	1.28E-11	3.13E-10
ENSMMUG00000057283		1.49646851	1.37E-05	0.000101616
ENSMMUG00000002879	GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]	0.605575312	8.16E-05	0.000499651
ENSMMUG00000060278	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.076977741	6.38E-06	5.09E-05
ENSMMUG00000008575	transient receptor potential cation channel subfamily M member 7 [Source:VGNC Symbol;Acc:VGNC:79106]	0.293251381	0.000455416	0.002283676
ENSMMUG00000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	2.313545335	1.80E-13	5.84E-12
ENSMMUG00000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	1.107192375	4.91E-10	9.19E-09
ENSMMUG00000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	1.017082074	7.22E-34	2.19E-31
ENSMMUG00000017374	G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]	3.209503131	1.22E-06	1.16E-05
ENSMMUG00000007504	myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]	2.188436366	0.000125235	0.000729969
ENSMMUG00000007509	myosin VA [Source:VGNC Symbol;Acc:VGNC:75116]	0.654741645	0.000235643	0.001276283
ENSMMUG00000048644		1.022119484	0.013905553	0.042556848
ENSMMUG00000001423	family with sequence similarity 214 member A [Source:VGNC Symbol;Acc:VGNC:72354]	0.447557838	0.000517851	0.002550999
ENSMMUG00000010798	cell cycle progression 1 [Source:VGNC Symbol;Acc:VGNC:70844]	0.441962451	0.003714035	0.013961967
ENSMMUG00000010797	phosphatidylinositol glycan anchor biosynthesis class B [Source:VGNC Symbol;Acc:VGNC:75985]	0.577314322	0.000467312	0.002332871
ENSMMUG00000029638	chromosome 7 C15orf65 homolog [Source:VGNC Symbol;Acc:VGNC:70689]	0.914801509	0.001061418	0.004759359
ENSMMUG00000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	1.415564555	2.09E-14	8.15E-13
ENSMMUG00000008112	NEDD4 E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:75302]	0.652232947	0.004167414	0.015352684
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	1.635383974	5.48E-16	2.65E-14
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	0.860888765	1.55E-12	4.37E-11
ENSMMUG00000063795		1.426372783	0.00422751	0.015550435
ENSMMUG00000012690	myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]	3.631297568	5.46E-06	4.43E-05
ENSMMUG00000018426	glucosaminyl (N-acetyl) transferase 3, mucin type [Source:VGNC Symbol;Acc:VGNC:84342]	-2.40681666	0.010746669	0.034395491
ENSMMUG00000020348	BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]	2.296039185	1.59E-08	2.22E-07
ENSMMUG00000049749		1.168520417	6.12E-09	9.32E-08
ENSMMUG00000060717	C2 calcium dependent domain containing 4A [Source:NCBI gene;Acc:704354]	0.464563501	0.000539809	0.002641267
ENSMMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]	1.160566678	3.96E-14	1.49E-12
ENSMMUG00000059755	aph-1 homolog B, gamma-secretase subunit [Source:NCBI gene;Acc:705718]	0.928969742	0.005420194	0.019264881
ENSMMUG00000012117	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:VGNC Symbol;Acc:VGNC:73364]	0.546922846	4.16E-10	7.90E-09

ENSMMUG00000049375		0.592464551	1.22E-05	9.16E-05
ENSMMUG00000018177	death associated protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:71733]	0.736696735	0.000677014	0.00322998
ENSMMUG00000013270	RNA binding protein, mRNA processing factor 2 [Source:VGNC Symbol;Acc:VGNC:76511]	1.253582402	0.011711005	0.03687305
ENSMMUG00000053704	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.611613688	0.016016955	0.047751944
ENSMMUG00000010949	SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]	0.886490805	3.87E-07	4.12E-06
ENSMMUG00000004028	kelch repeat and BTB domain containing 13 [Source:VGNC Symbol;Acc:VGNC:73953]	1.758248596	7.00E-06	5.55E-05
ENSMMUG00000006297	programmed cell death 7 [Source:NCBI gene;Acc:708758]	0.407337189	0.002019627	0.008338348
ENSMMUG00000021788	immunoglobulin superfamily DCC subclass member 4 [Source:VGNC Symbol;Acc:VGNC:73388]	1.165883528	0.003123571	0.012034815
ENSMMUG00000015450	3-hydroxyacyl-CoA dehydratase 3 [Source:VGNC Symbol;Acc:VGNC:73225]	0.401118603	0.016833209	0.049756885
ENSMMUG00000022056	DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]	1.006167217	6.22E-10	1.14E-08
ENSMMUG00000054184	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.769126099	3.69E-05	0.000247181
ENSMMUG00000035748	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.962068081	0.00659169	0.022685464
ENSMMUG00000008006	RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]	0.977250631	2.00E-11	4.75E-10
ENSMMUG00000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	1.094626391	1.19E-09	2.06E-08
ENSMMUG00000052828		0.850120816	0.002573457	0.010190779
ENSMMUG00000003693	DIS3 like exosome 3'-5' exoribonuclease [Source:VGNC Symbol;Acc:VGNC:71796]	4.141151222	6.74E-05	0.00042037
ENSMMUG00000041415	alpha and gamma adaptin binding protein [Source:NCBI gene;Acc:711436]	1.239822611	0.010250694	0.033099587
ENSMMUG00000015458	IQ motif containing H [Source:VGNC Symbol;Acc:VGNC:73655]	0.526228596	0.005306009	0.018909892
ENSMMUG00000004026	integrin subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73774]	0.480184778	4.74E-05	0.000309009
ENSMMUG00000006230	NADPH oxidase 5 [Source:VGNC Symbol;Acc:VGNC:82198]	0.332082321	0.011365903	0.036028376
ENSMMUG00000007570	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	0.787858538	0.001000496	0.004528086
ENSMMUG00000053647		0.395757925	0.010993831	0.035032293
ENSMMUG00000059258		0.56699681	0.006791631	0.023274383
ENSMMUG00000013685	Bardet-Biedl syndrome 4 [Source:NCBI gene;Acc:704508]	0.523079793	0.004639656	0.016827657
ENSMMUG00000011309	ADP dependent glucokinase [Source:VGNC Symbol;Acc:VGNC:69692]	0.44702587	5.13E-05	0.000332168
ENSMMUG00000057906		0.874344453	2.39E-15	1.06E-13
ENSMMUG00000059627		0.663694276	0.007728824	0.026061422
ENSMMUG00000063495		1.099194224	4.32E-15	1.83E-13
ENSMMUG00000056086		1.040296072	0.000107715	0.000637246
ENSMMUG00000001835	immunoglobulin superfamily containing leucine rich repeat 2 [Source:VGNC Symbol;Acc:VGNC:73682]	0.566193745	0.005659163	0.019992043
ENSMMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]	1.138551751	4.12E-08	5.33E-07
ENSMMUG00000022481	cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]	0.530448505	0.002186679	0.008919123
ENSMMUG00000015267	C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]	0.459666268	2.06E-07	2.34E-06
ENSMMUG00000008529	chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]	1.580245155	8.28E-06	6.43E-05
ENSMMUG00000061079	golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]	1.560473933	1.15E-24	1.34E-22
ENSMMUG00000016104	chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]	0.779691104	3.58E-06	3.03E-05
ENSMMUG00000053989		1.004436424	2.14E-13	6.82E-12
ENSMMUG00000058835		1.1009175	3.04E-05	0.000207675
ENSMMUG00000050124	transmembrane protein 266 [Source:NCBI gene;Acc:707482]	0.393133593	0.010355002	0.03336969
ENSMMUG00000010171	proline-serine-threonine phosphatase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:76459]	0.402465433	0.0150571	0.045428141
ENSMMUG00000042378	pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]	0.467218091	0.000297008	0.001561519
ENSMMUG00000054259		0.709327815	0.015797742	0.047204886

ENSMMUG00000058749	golgin subfamily A member 6C [Source:NCBI gene;Acc:716687]	3.016576819	0.00670856	0.023054927
ENSMMUG00000045680	iron responsive element binding protein 2 [Source:VGNC Symbol;Acc:VGNC:84360]	0.928141694	0.005989682	0.020936941
ENSMMUG00000059973		-0.40702873	0.007118415	0.024278602
ENSMMUG00000023736	cholinergic receptor nicotinic alpha 3 subunit [Source:VGNC Symbol;Acc:VGNC:71047]	0.418463147	0.002554963	0.010136873
ENSMMUG00000007541	cholinergic receptor nicotinic beta 4 subunit [Source:NCBI gene;Acc:106996685]	0.379955408	0.006401804	0.022139313
ENSMMUG00000056992	zinc finger AN1-type containing 6 [Source:NCBI gene;Acc:717543]	1.03748854	0.001532145	0.00653928
ENSMMUG00000009361	fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]	1.785672291	1.75E-06	1.58E-05
ENSMMUG00000009409	mesoderm development LRP chaperone [Source:VGNC Symbol;Acc:VGNC:74507]	1.045438475	0.001278084	0.005587821
ENSMMUG00000011564	transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]	4.142617541	1.03E-05	7.83E-05
ENSMMUG00000057295		0.39744596	0.007964856	0.026709367
ENSMMUG00000003002		0.596107353	0.003094527	0.011941901
ENSMMUG00000009087	HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]	1.243732471	3.31E-08	4.36E-07
ENSMMUG00000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]	1.145207614	2.77E-07	3.05E-06
ENSMMUG00000062992	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	-1.49694156	0.00343347	0.013066063
ENSMMUG00000062559		1.089254357	0.004748139	0.017170074
ENSMMUG00000011328	cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]	1.086180122	1.48E-05	0.0001087
ENSMMUG00000056767		0.963185246	0.002596832	0.010260981
ENSMMUG00000019838	phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]	0.681753143	0.000310841	0.001624262
ENSMMUG00000056737		1.153745099	0.000307317	0.001609318
ENSMMUG00000049563		1.318603755	1.53E-07	1.79E-06
ENSMMUG00000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	0.777007868	2.43E-09	3.97E-08
ENSMMUG00000010432	zinc finger protein 592 [Source:VGNC Symbol;Acc:VGNC:79762]	0.302248121	0.010409657	0.033522908
ENSMMUG00000057531	mitochondrial ribosomal protein S11 [Source:NCBI gene;Acc:697743]	0.559308871	0.012966245	0.040138481
ENSMMUG00000043001	milk fat globule EGF and factor V/VIII domain containing [Source:NCBI gene;Acc:703501]	1.436266007	0.000192259	0.001067559
ENSMMUG00000014414	abhydrolase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69463]	0.807318494	0.011790925	0.03706047
ENSMMUG00000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]	1.127485503	6.20E-10	1.14E-08
ENSMMUG00000011160	DNA polymerase gamma, catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76205]	0.792455974	0.002138591	0.00875738
ENSMMUG00000022678	Rh family C glycoprotein [Source:VGNC Symbol;Acc:VGNC:84427]	0.965052744	8.18E-05	0.000500886
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	1.04202138	6.68E-26	9.16E-24
ENSMMUG00000010586	mesoderm posterior bHLH transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:74618]	1.33763215	0.000385902	0.001965946
ENSMMUG00000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	0.976907323	2.45E-18	1.52E-16
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	0.986001304	1.10E-18	7.26E-17
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	0.942503929	6.88E-25	8.40E-23
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	1.947205398	4.72E-24	4.97E-22
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	2.116071785	5.17E-21	4.35E-19
ENSMMUG00000050794	zinc finger protein 774 [Source:NCBI gene;Acc:702985]	1.383469727	0.000228878	0.001244745
ENSMMUG00000019526	BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]	2.59819923	2.63E-13	8.29E-12
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	2.665945734	1.70E-17	9.67E-16
ENSMMUG00000005106	unc-45 myosin chaperone A [Source:VGNC Symbol;Acc:VGNC:79858]	3.356610186	1.18E-05	8.93E-05
ENSMMUG00000005108	RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]	2.890766512	3.70E-14	1.40E-12

ENSMMUG0000007534	protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]	2.477647752	4.21E-06	3.50E-05
ENSMMUG0000008399	synaptic vesicle glycoprotein 2B [Source:VGNC Symbol;Acc:VGNC:78140]	0.445849208	0.006475215	0.022332195
ENSMMUG00000063322		0.934098641	2.05E-06	1.83E-05
ENSMMUG0000005220	synemin [Source:VGNC Symbol;Acc:VGNC:78201]	0.735121566	6.93E-10	1.26E-08
ENSMMUG0000005224	tetratricopeptide repeat domain 23 [Source:VGNC Symbol;Acc:VGNC:79534]	0.604646032	1.43E-05	0.000105789
ENSMMUG00000065319		3.513369967	4.34E-05	0.000287326
ENSMMUG00000060063		1.521855628	1.29E-12	3.69E-11
ENSMMUG0000006659	aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]	2.011217904	1.96E-07	2.23E-06
ENSMMUG00000060984	olfactory receptor, family 4, subfamily K, member 13 [Source:NCBI gene;Acc:700920]	0.519844534	0.009935517	0.032253821
ENSMMUG00000029455	olfactory receptor 4Q2 [Source:NCBI gene;Acc:114679271]	0.669092643	0.000254313	0.001364689
ENSMMUG00000045269		2.921010532	0.001723194	0.007260891
ENSMMUG00000058162		2.394677091	0.002661374	0.010470472
ENSMMUG00000016255	telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]	0.99795292	5.15E-05	0.000333053
ENSMMUG00000048039	apurinic/apyrimidinic endodeoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:84305]	1.18082956	0.016893832	0.04985498
ENSMMUG00000019126	purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]	1.165003638	0.001468017	0.00629887
		-		
ENSMMUG00000020747	NDRG family member 2 [Source:VGNC Symbol;Acc:VGNC:74953]	2.541764494	0.00267746	0.01051367
		-		
ENSMMUG00000050445	ribonuclease A family member 8 [Source:NCBI gene;Acc:716333]	2.776054255	0.004807121	0.017353144
		-		
ENSMMUG00000006457	Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]	2.948939343	1.14E-06	1.08E-05
		-		
ENSMMUG00000014809	heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]	2.245201623	0.000759576	0.00356416
		-		
ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]	2.618931013	4.25E-10	8.04E-09
		-		
ENSMMUG00000055229		2.913457406	3.16E-21	2.71E-19
		-		
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	2.149336134	1.50E-13	4.94E-12
		-		
ENSMMUG00000015002	chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]	2.368462645	3.71E-08	4.83E-07
ENSMMUG00000015004	TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]	-1.68597947	0.000184884	0.001031732
		-		
ENSMMUG00000057062		1.202620844	0.004540596	0.016509915
		-		
ENSMMUG00000062974		1.493355768	3.89E-09	6.08E-08
		-		
ENSMMUG00000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	1.443798799	4.45E-06	3.69E-05
		-		
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	1.515377199	1.14E-11	2.80E-10
		-		
ENSMMUG00000054116	T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]	1.645820995	1.24E-11	3.02E-10
ENSMMUG00000056910		-1.86692489	1.12E-10	2.33E-09
ENSMMUG00000063215	T cell receptor alpha variable 29/delta variable 5 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:12127]	0.97901706	0.00209837	0.008614517
ENSMMUG00000009441	abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]	2.22323252	7.02E-06	5.56E-05
		-		
ENSMMUG00000000413	solute carrier family 7 member 7 [Source:VGNC Symbol;Acc:VGNC:77631]	0.718515852	0.001000443	0.004528086
		-		
ENSMMUG00000014750	embryonal Fyn-associated substrate [Source:VGNC Symbol;Acc:VGNC:72056]	0.810344413	0.016883913	0.049835826
		-		
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	1.152479717	7.39E-18	4.33E-16
ENSMMUG00000029420		1.781388733	2.28E-07	2.56E-06
ENSMMUG00000014766	neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]	1.318496303	8.57E-12	2.16E-10
ENSMMUG00000045970	thiamine triphosphatase [Source:NCBI gene;Acc:714403]	1.210087368	5.99E-17	3.20E-15

ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	1.398174852	1.58E-20	1.28E-18
ENSMMUG00000004144	adaptor related protein complex 1 subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:69959]	0.364746681	0.013334009	0.041110602
ENSMMUG000000059196		0.507276181	3.42E-07	3.70E-06
ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]	-1.77266006	9.38E-07	9.09E-06
		-		
ENSMMUG00000012473	proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]	2.173750848	3.56E-05	0.000239689
		-		
ENSMMUG00000012474	ring finger protein 31 [Source:NCBI gene;Acc:715239]	2.228681302	1.48E-05	0.000108583
		-		
ENSMMUG00000040817	interferon regulatory factor 9 [Source:VGNC Symbol;Acc:VGNC:84361]	2.529526773	2.21E-05	0.000156044
		-		
ENSMMUG00000012480	REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]	2.542172539	1.23E-11	3.01E-10
		-		
ENSMMUG00000012481	importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]	2.057808506	6.61E-10	1.20E-08
		-		
ENSMMUG00000029407	TERF1 interacting nuclear factor 2 [Source:VGNC Symbol;Acc:VGNC:78359]	2.477601688	0.001517441	0.006488752
		-		
ENSMMUG00000012452	transglutaminase 1 [Source:NCBI gene;Acc:715854]	2.471282446	0.00515482	0.018434347
		-		
ENSMMUG00000010049	NOP9 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75216]	2.437274349	0.000604507	0.002920476
		-		
ENSMMUG00000020698	adenylate cyclase 4 [Source:NCBI gene;Acc:714684]	2.746741064	0.012186921	0.038132
ENSMMUG00000019692	sec1 family domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77065]	0.522094588	0.006468121	0.022313024
		-		
ENSMMUG00000011515	striatin 3 [Source:VGNC Symbol;Acc:VGNC:78127]	1.328478066	0.000321102	0.001671872
		-		
ENSMMUG00000003120	HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]	0.952319214	2.19E-05	0.000155055
ENSMMUG000000056906		1.295278723	2.26E-11	5.24E-10
		-		
ENSMMUG00000012576	sorting nexin 6 [Source:NCBI gene;Acc:693626]	0.833898349	0.003743223	0.014060785
		-		
ENSMMUG00000015073	signal recognition particle 54 [Source:VGNC Symbol;Acc:VGNC:82247]	0.399216863	0.008302099	0.027693348
		-		
ENSMMUG00000003530	protein phosphatase 2 regulatory subunit B"gamma [Source:VGNC Symbol;Acc:VGNC:76279]	0.368502963	0.013770899	0.042224754
ENSMMUG000000056013	forkhead box A1 [Source:NCBI gene;Acc:697909]	2.38821074	0.000862803	0.003991906
		-		
ENSMMUG00000017677	chromosome 7 C14orf28 homolog [Source:VGNC Symbol;Acc:VGNC:70581]	0.501131966	8.73E-05	0.000529637
ENSMMUG00000003913	DNA polymerase epsilon 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76204]	0.627104869	0.001078207	0.00481977
		-		
ENSMMUG00000003914	kelch domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74086]	0.677172115	0.013993975	0.042791422
		-		
ENSMMUG000000055903	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.423847923	0.014853974	0.044929717
ENSMMUG000000049543		1.027014873	0.00058736	0.002845201
ENSMMUG000000059134		1.393925206	0.000356601	0.001831769
		-		
ENSMMUG00000007460	valosin containing protein lysine methyltransferase [Source:VGNC Symbol;Acc:VGNC:81602]	1.265199601	0.007393376	0.025146818
ENSMMUG00000009577	atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]	0.574589131	1.83E-05	0.000131154
ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	2.459027971	3.91E-11	8.78E-10
ENSMMUG000000056844		1.499242126	0.00102644	0.004626684
ENSMMUG00000018274	FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]	0.585403576	0.002164614	0.008851473
ENSMMUG00000018200	RNA transcription, translation and transport factor [Source:VGNC Symbol;Acc:VGNC:77087]	2.109144318	0.001180497	0.005217658
ENSMMUG00000000024	prostaglandin D2 receptor [Source:VGNC Symbol;Acc:VGNC:76467]	1.123129079	5.58E-05	0.000357149
ENSMMUG00000000023	prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]	1.248575513	1.49E-06	1.38E-05
ENSMMUG00000006997	thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]	1.784612227	2.37E-28	4.59E-26

ENSMMUG00000010689	fermitin family member 2 [Source:VGNC Symbol;Acc:VGNC:82144]	0.860321375	1.44E-07	1.69E-06
ENSMMUG00000052273	glia maturation factor beta [Source:NCBI gene;Acc:696440]	1.144214193	0.005666892	0.020014482
ENSMMUG00000010315	sterile alpha motif domain containing 4A [Source:VGNC Symbol;Acc:VGNC:77085]	1.088454338	0.014466702	0.04394117
ENSMMUG00000004084	GTP cyclohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:72900]	0.912583306	0.000297945	0.001564182
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	1.609334083	1.94E-18	1.23E-16
ENSMMUG00000054112		0.418158022	0.003368762	0.012846718
ENSMMUG00000003567	DLG associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71850]	0.422956185	0.01421742	0.043356122
ENSMMUG00000049334		0.726667259	0.001109509	0.004939951
ENSMMUG00000023041	TATA-box binding protein like 2 [Source:VGNC Symbol;Acc:VGNC:78175]	0.635746233	0.00544566	0.019331762
ENSMMUG00000061576		1.62579604	0.000100202	0.000596982
ENSMMUG00000053489		1.021599126	3.23E-05	0.000219382
ENSMMUG00000059984	pellino E3 ubiquitin protein ligase family member 2 [Source:NCBI gene;Acc:699169]	1.260611909	0.012406611	0.0387277
ENSMMUG00000003508	actin related protein 10 [Source:VGNC Symbol;Acc:VGNC:69449]	0.40743035	0.001372742	0.005948003
ENSMMUG00000011965	coiled-coil domain containing 175 [Source:VGNC Symbol;Acc:VGNC:84317]	1.476548796	0.000340687	0.001759972
ENSMMUG00000011966	reticulon 1 [Source:NCBI gene;Acc:619184]	1.317418904	0.000251097	0.001348928
ENSMMUG00000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	1.035148896	6.12E-07	6.22E-06
ENSMMUG00000002540	dehydrogenase/reductase 7 [Source:VGNC Symbol;Acc:VGNC:71690]	0.525020156	1.24E-07	1.47E-06
ENSMMUG00000001640	SIX homeobox 4 [Source:NCBI gene;Acc:703798]	0.730351859	0.010516679	0.033748557
ENSMMUG00000001642	MNAT1 component of CDK activating kinase [Source:VGNC Symbol;Acc:VGNC:74905]	0.632066414	0.013600028	0.041802581
ENSMMUG00000051446		0.651268758	0.009289581	0.030525008
ENSMMUG00000007264	transmembrane protein 30B [Source:VGNC Symbol;Acc:VGNC:79656]	-0.67563671	0.013346926	0.041141701
ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.097006504	1.26E-13	4.21E-12
ENSMMUG00000008203	ras homolog family member J [Source:VGNC Symbol;Acc:VGNC:76885]	0.542004157	0.007792517	0.02622218
ENSMMUG00000001008	spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]	-0.75181036	0.000372024	0.001900252
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	-1.05863189	1.68E-12	4.73E-11
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	1.059398938	6.30E-09	9.58E-08
ENSMMUG00000056063		2.405707482	1.04E-05	7.91E-05
ENSMMUG00000019172	spectrin beta, erythrocytic [Source:VGNC Symbol;Acc:VGNC:77870]	0.728811888	0.000236661	0.001279889
ENSMMUG00000004339	RAB15, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81519]	0.790452239	1.63E-06	1.49E-05
ENSMMUG00000004341	MYC associated factor X [Source:VGNC Symbol;Acc:VGNC:74667]	4.372113105	0.002956597	0.011491994
ENSMMUG00000053774		2.152902055	0.002442596	0.009762997
ENSMMUG00000013848	fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]	1.522085085	2.25E-10	4.42E-09
ENSMMUG00000013907	ribosomal protein S27a [Source:NCBI gene;Acc:718909]	2.064968834	5.60E-05	0.000357946
ENSMMUG00000006768	coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]	1.474799034	5.57E-05	0.000356839
ENSMMUG00000009520	gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]	1.470760406	3.81E-06	3.21E-05
ENSMMUG00000021418	ATPase H+ transporting V1 subunit D [Source:VGNC Symbol;Acc:VGNC:70060]	0.780049781	1.23E-05	9.21E-05
ENSMMUG00000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	1.516221631	2.16E-06	1.92E-05
ENSMMUG00000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	1.112519901	7.10E-07	7.10E-06

ENSMMUG00000015869	retinol dehydrogenase 12 [Source:VGNC Symbol;Acc:VGNC:76781]	-	0.872876828	0.01680176	0.049694239
ENSMMUG00000015871	zinc finger FYVE-type containing 26 [Source:VGNC Symbol;Acc:VGNC:79283]	-	1.100257045	0.013788968	0.042271241
ENSMMUG00000059398		-	3.254288714	0.007342005	0.024983785
ENSMMUG00000010767	actinin alpha 1 [Source:VGNC Symbol;Acc:VGNC:69423]	-	1.119913547	0.00786486	0.026428911
ENSMMUG00000021572	solute carrier family 39 member 9 [Source:VGNC Symbol;Acc:VGNC:77523]	-	0.514403224	0.013988858	0.042784774
ENSMMUG00000003240	pleckstrin homology and coiled-coil domain containing D1 [Source:VGNC Symbol;Acc:VGNC:76080]	-	0.302343685	0.009318136	0.03058671
ENSMMUG00000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	-	1.66042169	8.34E-14	2.88E-12
ENSMMUG00000022407	serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]	-	1.073804514	3.51E-05	0.000236288
ENSMMUG00000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	-	1.356495472	9.18E-15	3.70E-13
ENSMMUG00000045443		-	1.565947752	0.002422191	0.009692097
ENSMMUG00000052692	disintegrin and metalloproteinase domain-containing protein 20-like [Source:NCBI gene;Acc:114679594]	-	0.883840951	0.002204297	0.008980905
ENSMMUG00000019470	pecanex 1 [Source:VGNC Symbol;Acc:VGNC:75655]	-	0.490535932	0.00209109	0.00858948
ENSMMUG00000001820	regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]	-	2.980073761	0.016283854	0.048428474
ENSMMUG00000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]	-	1.779498863	1.88E-07	2.15E-06
ENSMMUG00000010173	presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]	-	1.032175488	5.37E-06	4.36E-05
ENSMMUG00000056580	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.307536552	0.004640715	0.016827657
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]	-	1.155673585	1.06E-12	3.07E-11
ENSMMUG000000053481		-	1.421296721	1.36E-08	1.94E-07
ENSMMUG000000049894		-	1.669957905	1.51E-05	0.000110489
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]	-	1.412866575	3.49E-12	9.33E-11
ENSMMUG00000004910	dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]	-	1.190105837	0.000235312	0.00127544
ENSMMUG00000004913	mitotic deacetylase associated SANT domain protein [Source:VGNC Symbol;Acc:VGNC:72073]	-	0.744549939	1.01E-08	1.47E-07
ENSMMUG00000038996	synapse differentiation inducing 1 like [Source:NCBI gene;Acc:699046]	-	1.222490654	0.011764569	0.037001631
ENSMMUG00000056376		-	2.467790905	6.69E-14	2.35E-12
ENSMMUG00000004255	YLP motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79092]	-	1.313228009	2.55E-05	0.000177334
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]	-	0.900761268	5.90E-18	3.53E-16
ENSMMUG00000015168	transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]	-	0.981511194	3.29E-05	0.000222722
ENSMMUG00000040100	Fos proto-oncogene, AP-1 transcription factor subunit [Source:VGNC Symbol;Acc:VGNC:84340]	-	0.669881067	3.82E-08	4.97E-07
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]	-	1.021286707	3.33E-05	0.00022579
ENSMMUG00000012065	tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]	-	1.326980965	2.25E-09	3.70E-08
ENSMMUG00000008792	G-patch domain containing 2 like [Source:VGNC Symbol;Acc:VGNC:72973]	-	1.151507474	8.68E-05	0.000526789
ENSMMUG00000016773	estrogen related receptor beta [Source:VGNC Symbol;Acc:VGNC:72434]	-	0.591111444	0.001449761	0.006231573
ENSMMUG00000057021	CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]	-	-1.35906711	3.44E-05	0.000232057
ENSMMUG00000007561	zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]	-	1.507306768	3.14E-11	7.16E-10
ENSMMUG00000023626	alkB homolog 1, histone H2A dioxygenase [Source:VGNC Symbol;Acc:VGNC:69630]	-	1.397269411	0.002050085	0.008440127
ENSMMUG00000019710	centrosomal protein 128 [Source:VGNC Symbol;Acc:VGNC:71062]	-	0.950374934	0.000737032	0.003469635
ENSMMUG00000019713	thyroid stimulating hormone receptor [Source:VGNC Symbol;Acc:VGNC:78662]	-	0.935627114	0.000731569	0.003449502
ENSMMUG00000022122	general transcription factor IIA subunit 1 [Source:VGNC Symbol;Acc:VGNC:73305]	-	1.257736742	0.013479955	0.041472614

ENSMMUG00000022124	stonin 2 [Source:VGNC Symbol;Acc:VGNC:78249]	1.251950946	0.000665027	0.003178009
ENSMMUG00000010016	SEL1L adaptor subunit of ERAD E3 ubiquitin ligase [Source:VGNC Symbol;Acc:VGNC:77155]	2.038997913	0.013282487	0.040960441
ENSMMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]	1.088205236	4.57E-12	1.21E-10
ENSMMUG00000017260	G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]	0.889147239	1.76E-05	0.000126344
ENSMMUG00000021011	spermatogenesis associated 7 [Source:VGNC Symbol;Acc:VGNC:77971]	-1.3020927	0.008896732	0.029420334
ENSMMUG00000004603	zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]	0.637186429	6.83E-08	8.48E-07
ENSMMUG00000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]	0.987738662	1.39E-10	2.86E-09
ENSMMUG00000004460	tyrosyl-DNA phosphodiesterase 1 [Source:VGNC Symbol;Acc:VGNC:79164]	0.818514839	0.001726478	0.007270513
ENSMMUG00000008964	D-glutamate cyclase [Source:VGNC Symbol;Acc:VGNC:71685]	1.13209611	0.001410978	0.006086463
ENSMMUG00000008447	fibulin 5 [Source:VGNC Symbol;Acc:VGNC:72622]	1.022509928	0.000218296	0.001197129
ENSMMUG00000000699	cleavage and polyadenylation specific factor 2 [Source:VGNC Symbol;Acc:VGNC:71473]	0.499809715	0.007804616	0.026250852
ENSMMUG00000009974	inositol-tetrakisphosphate 1-kinase [Source:VGNC Symbol;Acc:VGNC:73802]	1.423436843	0.002805466	0.010977944
ENSMMUG000000044581	modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]	1.209735847	2.47E-06	2.17E-05
ENSMMUG000000061833	transmembrane protein 251 [Source:NCBI gene;Acc:708131]	1.451317072	7.18E-06	5.68E-05
ENSMMUG000000053729		0.366713135	0.012253442	0.038290689
ENSMMUG000000052453	serpin family A member 11 [Source:NCBI gene;Acc:701483]	2.36572358	7.83E-05	0.000481511
ENSMMUG000000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]	1.780902583	9.71E-07	9.37E-06
ENSMMUG000000020586	serpin family A member 12 [Source:VGNC Symbol;Acc:VGNC:77266]	4.241214081	0.000191012	0.001061442
ENSMMUG000000000681	calmin [Source:VGNC Symbol;Acc:VGNC:71232]	0.778907476	8.12E-10	1.45E-08
ENSMMUG000000003658	autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]	1.082647677	0.002572496	0.010189749
ENSMMUG000000003261	BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]	1.527150262	2.61E-09	4.23E-08
ENSMMUG000000051552		1.392055279	1.66E-07	1.93E-06
ENSMMUG000000061892		1.364829713	1.86E-11	4.42E-10
ENSMMUG000000049437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.367734767	0.000107989	0.000638405
ENSMMUG000000029197	YY1 transcription factor [Source:NCBI gene;Acc:717370]	1.297535521	2.73E-06	2.36E-05
ENSMMUG000000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	2.737088769	1.36E-24	1.54E-22
ENSMMUG000000000186	protein phosphatase 2 regulatory subunit B'gamma [Source:NCBI gene;Acc:718894]	0.460107045	1.18E-07	1.40E-06
ENSMMUG000000005780	dynein cytoplasmic 1 heavy chain 1 [Source:VGNC Symbol;Acc:VGNC:71951]	0.410834819	1.22E-05	9.16E-05
ENSMMUG000000007140	MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]	1.674937093	1.61E-05	0.000116821
ENSMMUG000000003483	cyclin dependent kinase 2 interacting protein [Source:VGNC Symbol;Acc:VGNC:71326]	0.760640387	0.015081929	0.045477288
ENSMMUG000000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	1.446215227	9.92E-10	1.73E-08
ENSMMUG000000005845	REST corepressor 1 [Source:VGNC Symbol;Acc:VGNC:76752]	0.74429019	0.000466779	0.002332612
ENSMMUG000000008380	CDC42 binding protein kinase beta [Source:VGNC Symbol;Acc:VGNC:81369]	0.625469486	0.005106539	0.018288682
ENSMMUG000000029186	exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]	3.519775478	0.000713223	0.003372844
ENSMMUG000000050495		2.639112608	1.19E-06	1.13E-05
ENSMMUG000000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	2.382044005	2.17E-23	2.16E-21
ENSMMUG000000049145	creatine kinase B [Source:NCBI gene;Acc:711167]	0.40004922	0.000615464	0.002966511
ENSMMUG000000018121	zinc finger FYVE-type containing 21 [Source:VGNC Symbol;Acc:VGNC:79282]	0.317054543	0.006406294	0.022147039
ENSMMUG000000052518	SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]	2.426299621	9.20E-05	0.000554193
ENSMMUG000000064694	AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]	3.069438125	0.000108252	0.000639701

ENSMMUG0000001273	clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]	2.100513517	5.94E-10	1.09E-08
ENSMMUG00000065019	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.129295722	1.58E-05	0.000115182
ENSMMUG00000022939	phosphofurin acidic cluster sorting protein 2 [Source:VGNC Symbol;Acc:VGNC:75671]	1.061792935	0.006493542	0.022390091
ENSMMUG00000007159	tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]	1.823708705	9.92E-05	0.000592297
ENSMMUG00000015202		2.182913429	0.001481171	0.006349686
ENSMMUG00000040771		1.632820668	1.52E-05	0.000111622
ENSMMUG00000059525		1.878854791	5.71E-05	0.000363981
ENSMMUG00000055207		3.775307821	2.83E-08	3.76E-07
ENSMMUG00000060892		2.650089086	1.41E-13	4.65E-12
ENSMMUG00000064429	immunoglobulin heavy variable 1-45 [Source:HGNC Symbol;Acc:HGNC:5553]	3.844042017	0.001328226	0.005779633
ENSMMUG00000052929		-4.14904743	2.90E-08	3.86E-07
ENSMMUG00000052535		3.188992329	0.000461451	0.002308365
ENSMMUG00000057719		2.480100028	0.005691659	0.020072695
ENSMMUG00000063346		3.549773568	5.20E-06	4.24E-05
ENSMMUG00000038067		1.097650601	0.000291188	0.001535922
ENSMMUG00000053333	acetylserotonin O-methyltransferase like [Source:NCBI gene;Acc:106995142]	3.587355775	0.005243875	0.018711392
ENSMMUG00000000443	arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]	0.890534695	1.70E-05	0.000122939
ENSMMUG00000017378	steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]	1.428842969	0.004605324	0.016716004
ENSMMUG00000010252	FERM and PDZ domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72802]	0.848590041	0.000261808	0.001402323
ENSMMUG00000003482	glycine receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:73075]	1.054574574	0.000204663	0.001127117
ENSMMUG00000015737	phosphatidylinositol glycan anchor biosynthesis class A [Source:VGNC Symbol;Acc:VGNC:75984]	0.918117124	2.53E-06	2.21E-05
ENSMMUG00000015740	pirin [Source:VGNC Symbol;Acc:VGNC:75893]	0.676042478	0.009144365	0.030143227
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	1.638543273	8.96E-08	1.08E-06
ENSMMUG00000058700	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.221015467	0.000732836	0.003452118
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.279642601	2.93E-12	7.90E-11
ENSMMUG00000016237	taxilin gamma [Source:NCBI gene;Acc:713769]	3.050655004	3.65E-05	0.000244717
ENSMMUG00000002134	ribosomal protein S6 kinase A3 [Source:VGNC Symbol;Acc:VGNC:76929]	0.748779852	0.009815662	0.031950354
ENSMMUG00000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	1.464075171	3.55E-08	4.64E-07
ENSMMUG00000061261	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.057516663	0.002099876	0.008618265
ENSMMUG00000042317	putative transcription factor SPT20 homolog-like 2 [Source:NCBI gene;Acc:100429227]	0.808292807	0.005432894	0.019295867
ENSMMUG00000012819	pyruvate dehydrogenase kinase 3 [Source:VGNC Symbol;Acc:VGNC:75934]	1.197232341	0.00028035	0.001490653
ENSMMUG00000012775	nuclear receptor subfamily 0 group B member 1 [Source:NCBI gene;Acc:574154]	1.324840958	0.010155888	0.032837219
ENSMMUG00000005959	glycerol kinase [Source:NCBI gene;Acc:707531]	0.457475388	0.015222079	0.045823847
ENSMMUG00000013220	cytochrome b-245 beta chain [Source:VGNC Symbol;Acc:VGNC:71576]	0.779954072	0.00591878	0.020737843

ENSMMUG00000045877	mitochondrial pyruvate carrier 1 like [Source:NCBI gene;Acc:705293]	2.733795616	0.015616776	0.046789175
ENSMMUG00000005264	mediator complex subunit 14 [Source:VGNC Symbol;Acc:VGNC:74561]	0.643993366	0.002288202	0.009257887
ENSMMUG000000063721		-0.7584249	7.39E-09	1.11E-07
ENSMMUG000000055907		0.627510019	0.001805503	0.007557329
ENSMMUG000000057909		1.220688986	0.002266385	0.00919008
		-		
ENSMMUG000000057804		1.826542879	0.002038171	0.008405358
		-		
ENSMMUG00000003897	solute carrier family 9 member A7 [Source:NCBI gene;Acc:710906]	0.744163887	3.32E-07	3.60E-06
ENSMMUG000000049666		0.457292715	0.015955539	0.047598127
ENSMMUG000000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	1.327259988	4.52E-15	1.91E-13
ENSMMUG000000019546	regucalcin [Source:VGNC Symbol;Acc:VGNC:76912]	1.673726519	5.15E-05	0.000332637
		-		
ENSMMUG000000017423	RNA binding motif protein 10 [Source:VGNC Symbol;Acc:VGNC:76680]	1.871288254	0.005855837	0.020542062
		-		
ENSMMUG000000014002	cyclin dependent kinase 16 [Source:VGNC Symbol;Acc:VGNC:71160]	1.231535882	0.001583642	0.006741258
		-		
ENSMMUG000000016608	ubiquitin specific peptidase 11 [Source:VGNC Symbol;Acc:VGNC:78734]	1.318898325	0.010164212	0.032856827
ENSMMUG000000008566	zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]	0.714744366	2.05E-06	1.83E-05
		-		
ENSMMUG000000010404	zinc finger protein 41 [Source:VGNC Symbol;Acc:VGNC:78900]	0.830783419	0.000369709	0.001889752
		-		
ENSMMUG000000063703		0.856012519	0.00253587	0.010083136
		-		
ENSMMUG000000019768	suppressor of variegation 3-9 homolog 1 [Source:VGNC Symbol;Acc:VGNC:78061]	0.756857238	0.002064251	0.008493635
ENSMMUG000000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	0.954067025	5.92E-12	1.53E-10
ENSMMUG000000016467	ES cell expressed Ras [Source:VGNC Symbol;Acc:VGNC:72256]	1.07292571	0.016949852	0.049969579
ENSMMUG000000016469	proprotein convertase subtilisin/kexin type 1 inhibitor [Source:VGNC Symbol;Acc:VGNC:75639]	1.93579871	0.001178338	0.0052097
ENSMMUG000000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	0.954840518	9.59E-10	1.67E-08
ENSMMUG000000004559	potassium voltage-gated channel subfamily D member 1 [Source:VGNC Symbol;Acc:VGNC:73975]	-1.41837096	0.005625945	0.019908559
ENSMMUG000000010617	coiled-coil domain containing 120 [Source:VGNC Symbol;Acc:VGNC:70664]	0.423059594	0.004419785	0.016163628
ENSMMUG000000023025	synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]	0.623585688	1.77E-06	1.60E-05
ENSMMUG000000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	1.018774996	2.87E-20	2.23E-18
ENSMMUG000000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	1.127902208	4.71E-14	1.71E-12
ENSMMUG000000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	1.425259964	1.38E-23	1.40E-21
ENSMMUG000000060311	G antigen 10-like [Source:NCBI gene;Acc:114674954]	0.422470811	0.010382198	0.033449915
ENSMMUG000000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.265256048	5.35E-10	9.94E-09
ENSMMUG000000026584	Y RNA [Source:RFAM;Acc:RF00019]	1.893039048	0.008377624	0.027900462
ENSMMUG000000056042	Y RNA [Source:RFAM;Acc:RF00019]	2.749588628	0.003323134	0.012712738
ENSMMUG000000023060	A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]	2.469120587	4.65E-09	7.20E-08
ENSMMUG000000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	2.213290869	3.36E-15	1.47E-13
ENSMMUG000000049267		5.050299395	4.51E-25	5.65E-23
ENSMMUG000000060192	bone morphogenetic protein 15 [Source:NCBI gene;Acc:695457]	3.718997044	0.004459929	0.016265427
		-		
ENSMMUG000000020202	melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]	1.021990649	0.006399931	0.022139313
ENSMMUG000000012073	X antigen family member 1-like [Source:NCBI gene;Acc:106996044]	-0.46785563	0.015454306	0.046417199
		-		
ENSMMUG000000046218	X antigen family member 5 [Source:NCBI gene;Acc:114669729]	1.130070149	0.000463698	0.00231801
		-		
ENSMMUG000000053262		0.644551655	0.001290591	0.005637417
ENSMMUG000000020555	IQ motif and Sec7 domain ArfGEF 2 [Source:VGNC Symbol;Acc:VGNC:73676]	-0.46199999	0.000580501	0.002817611
		-		
ENSMMUG000000047741	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.877888114	0.000125697	0.000732365

ENSMMUG0000008422	trophinin [Source:NCBI gene;Acc:704512]	-	0.746466184	3.24E-05	0.000220083
ENSMMUG00000059922	family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]	-	3.973978265	5.90E-07	6.03E-06
ENSMMUG00000051670		-	-1.40124092	5.72E-09	8.75E-08
ENSMMUG00000054377		-	0.770075014	1.98E-10	3.95E-09
ENSMMUG00000063913	endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]	-	3.12287277	0.000144798	0.000831988
ENSMMUG00000059335		-	5.225182954	6.28E-08	7.83E-07
ENSMMUG00000004309	APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]	-	5.639327132	1.30E-07	1.53E-06
ENSMMUG00000048462	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	4.591456196	3.69E-05	0.000247181
ENSMMUG00000065109	ankyrin repeat and SOCS box containing 12 [Source:NCBI gene;Acc:707931]	-	3.858513324	0.000341385	0.001762953
ENSMMUG00000004274	myotubularin related protein 8 [Source:VGNC Symbol;Acc:VGNC:74974]	-	4.077758049	0.000272548	0.001453956
ENSMMUG00000065001		-	0.533701587	8.60E-05	0.000522341
ENSMMUG00000047336	praja ring finger ubiquitin ligase 1 [Source:NCBI gene;Acc:695038]	-	0.418247255	0.001633072	0.006927331
ENSMMUG00000061393	OTU deubiquitinase 6A [Source:NCBI gene;Acc:694498]	-	1.684173339	0.00975667	0.031779679
ENSMMUG00000054817	immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]	-	1.232613784	4.97E-05	0.000322979
ENSMMUG00000013934	pyrimidinergic receptor P2Y4 [Source:VGNC Symbol;Acc:VGNC:75739]	-	1.231058079	0.016491835	0.048966873
ENSMMUG00000013937	RAB41, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81544]	-	-1.07332758	0.002576729	0.010198178
ENSMMUG00000013940	kinesin family member 4A [Source:NCBI gene;Acc:695574]	-	1.343489704	0.000963363	0.004385973
ENSMMUG00000013943	glycerophosphodiester phosphodiesterase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72787]	-	1.937646467	4.61E-05	0.000302628
ENSMMUG00000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	-	3.105894413	1.70E-09	2.86E-08
ENSMMUG00000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	-	1.591107692	9.43E-15	3.78E-13
ENSMMUG00000032427	neuroligin 3 [Source:NCBI gene;Acc:574216]	-	1.167002406	8.98E-09	1.33E-07
ENSMMUG00000000669	gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]	-	2.137618285	2.92E-05	0.000199996
ENSMMUG00000000667	zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]	-	1.238702572	5.55E-05	0.000355456
ENSMMUG00000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]	-	-1.00736573	6.06E-08	7.58E-07
ENSMMUG00000011469	germ cell nuclear acidic peptidase [Source:VGNC Symbol;Acc:VGNC:72724]	-	-1.9038939	0.000317261	0.001654239
ENSMMUG00000054132		-	2.836263532	0.003299527	0.012639058
ENSMMUG00000063858		-	0.387242849	0.00163149	0.006922641
ENSMMUG00000009249	ring finger protein, LIM domain interacting [Source:NCBI gene;Acc:703471]	-	0.733347777	3.55E-07	3.82E-06
ENSMMUG00000053505	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.215238154	0.007661337	0.025894642
ENSMMUG00000017660		-	1.336819253	2.79E-12	7.55E-11
ENSMMUG00000011440	neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]	-	1.364336886	1.69E-06	1.54E-05
ENSMMUG00000015619	ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]	-	0.913474859	0.000383316	0.001954496
ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	-	1.438404222	2.27E-15	1.01E-13
ENSMMUG00000014407	magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]	-	0.810272139	1.32E-06	1.23E-05
ENSMMUG00000015861	cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]	-	0.839683475	1.53E-05	0.000112069
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	-	1.426668695	2.12E-12	5.89E-11
ENSMMUG00000052073		-	1.313220413	1.51E-15	6.96E-14

ENSMMUG00000049425		0.663756191	0.010950259	0.034931735
ENSMMUG00000053430		0.998367558	0.000687285	0.003270397
		-		
ENSMMUG00000008212	tenomodulin [Source:VGNC Symbol;Acc:VGNC:79087]	0.805913222	0.00396984	0.014751932
		-		
ENSMMUG00000013008	cleavage stimulation factor subunit 2 [Source:VGNC Symbol;Acc:VGNC:71536]	1.103269698	0.000135317	0.000783085
		-		
ENSMMUG00000004178	NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]	1.751852033	6.22E-12	1.60E-10
		-		
ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]	1.253667285	2.68E-06	2.33E-05
		-		
ENSMMUG00000007601	centromere protein I [Source:NCBI gene;Acc:702316]	0.905911964	0.000324712	0.001689457
ENSMMUG00000059432		2.178644408	0.000254574	0.00136559
ENSMMUG00000022281	family with sequence similarity 199, X-linked [Source:NCBI gene;Acc:699523]	2.165524	0.005141034	0.018389571
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	1.469419875	4.41E-19	3.06E-17
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.556640053	1.82E-21	1.59E-19
		-		
ENSMMUG00000022293	FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]	0.646180775	1.27E-07	1.51E-06
		-		
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	1.031142093	3.13E-13	9.80E-12
ENSMMUG00000007688	angiomin 1 [Source:VGNC Symbol;Acc:VGNC:69627]	4.153800951	4.46E-05	0.000293916
ENSMMUG00000006377	plastin 3 [Source:VGNC Symbol;Acc:VGNC:76181]	0.738923324	0.001789916	0.007500725
ENSMMUG00000055906	angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]	1.968939556	8.69E-06	6.72E-05
ENSMMUG00000026243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.2947595	0.004557352	0.016562557
ENSMMUG00000057063	solute carrier family 6 member 14 [Source:NCBI gene;Acc:709598]	1.715745667	0.004463187	0.016273227
		-		
ENSMMUG00000008781	BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]	0.731901457	4.93E-07	5.14E-06
		-		
ENSMMUG00000063900	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.209784968	0.016810691	0.04971054
		-		
ENSMMUG00000004954	apoptosis inducing factor mitochondria associated 1 [Source:VGNC Symbol;Acc:VGNC:69820]	0.695270909	0.001434651	0.006175756
		-		
ENSMMUG00000003479	FERM domain containing 7 [Source:VGNC Symbol;Acc:VGNC:72927]	1.137892375	0.001402371	0.006054727
		-		
ENSMMUG00000048745	RAP2C, member of RAS oncogene family [Source:NCBI gene;Acc:705986]	0.774977689	0.002332196	0.009396656
		-		
ENSMMUG00000025616		3.384244608	0.000282069	0.001498699
		-		
ENSMMUG00000003456	glypican 4 [Source:VGNC Symbol;Acc:VGNC:73118]	0.533621436	7.11E-07	7.10E-06
ENSMMUG00000009622	glypican 3 [Source:VGNC Symbol;Acc:VGNC:73117]	0.888446504	0.003754531	0.014099617
ENSMMUG00000032341	coiled-coil domain containing 160 [Source:VGNC Symbol;Acc:VGNC:70926]	0.860782304	2.16E-09	3.55E-08
		-		
ENSMMUG00000016610	CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]	1.749145592	4.61E-08	5.89E-07
ENSMMUG00000016929	proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]	1.975180067	1.31E-05	9.79E-05
ENSMMUG00000040974	fetal and adult testis expressed 1 [Source:NCBI gene;Acc:704368]	2.883446816	0.000847516	0.003933695
ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	0.973068324	9.21E-13	2.70E-11
ENSMMUG00000062628		1.132537017	0.000381778	0.001947334
ENSMMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]	1.004118861	1.73E-07	1.99E-06
ENSMMUG00000039292		1.527200038	3.60E-10	6.90E-09
ENSMMUG00000062063	melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]	1.523855033	9.19E-14	3.17E-12
ENSMMUG00000037641	chondrosarcoma-associated gene 2/3 protein [Source:NCBI gene;Acc:106992305]	2.577120275	5.84E-05	0.000371466
ENSMMUG00000049656	melanoma-associated antigen 2 [Source:NCBI gene;Acc:706218]	1.760536416	0.001172706	0.005186377
ENSMMUG00000058013	melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]	1.818484951	4.15E-10	7.89E-09
ENSMMUG00000040071		2.490887483	1.68E-07	1.94E-06

ENSMMUG00000020743	centrin 2 [Source:NCBI gene;Acc:693376]	1.937852999	0.001241986	0.00545362
ENSMMUG00000013176	NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]	2.221769673	8.44E-10	1.50E-08
ENSMMUG00000010897	PNMA family member 3 [Source:VGNC Symbol;Acc:VGNC:76063]	0.450632656	0.006045534	0.021100582
		-		
ENSMMUG00000064249		1.238837566	0.005452943	0.01935289
ENSMMUG00000041072		-1.07213426	0.007648345	0.025868774
		-		
ENSMMUG00000061278		1.330726579	6.58E-08	8.18E-07
ENSMMUG00000010137	microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]	2.199143811	1.34E-06	1.26E-05
ENSMMUG00000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	2.692502203	3.73E-20	2.85E-18
		-		
ENSMMUG00000049842		3.115087611	0.000120917	0.000707065
		-		
ENSMMUG00000052334	defensin beta 108B [Source:NCBI gene;Acc:696933]	2.225761752	0.009313279	0.03058214
ENSMMUG00000029034	defensin beta 136 [Source:VGNC Symbol;Acc:VGNC:71826]	1.88777615	5.01E-06	4.10E-05
		-		
ENSMMUG00000019206	BLK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:70253]	0.894055954	0.009360721	0.030710177
ENSMMUG00000050140	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.540630606	0.001137253	0.005046472
ENSMMUG00000063525		2.693097494	1.94E-15	8.74E-14
ENSMMUG00000054960		2.18003132	2.02E-09	3.33E-08
ENSMMUG00000027220	microRNA 598 [Source:HGNC Symbol;Acc:HGNC:32854]	2.717294605	0.00332095	0.012707725
ENSMMUG00000010180	PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	2.400141849	8.40E-11	1.79E-09
		-		
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]	2.660982577	0.000189835	0.001056521
ENSMMUG00000007068	tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]	3.602538335	1.82E-06	1.64E-05
		-		
ENSMMUG00000022303	solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]	0.535509725	2.24E-11	5.20E-10
ENSMMUG00000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	2.356122106	2.40E-32	6.46E-30
ENSMMUG00000015487	pericentriolar material 1 [Source:VGNC Symbol;Acc:VGNC:75781]	4.39177431	0.001841069	0.007677457
ENSMMUG00000005920	N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]	3.209557227	5.13E-06	4.18E-05
ENSMMUG00000011774	integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	1.222807846	2.41E-16	1.21E-14
ENSMMUG00000002032	exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]	-1.02709717	4.68E-05	0.000306484
		-		
ENSMMUG00000063764		2.038131075	0.0008576	0.003969096
		-		
ENSMMUG00000013029	surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]	2.209323567	7.90E-10	1.41E-08
		-		
ENSMMUG00000013031	bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]	0.857324515	1.82E-05	0.000130928
		-		
ENSMMUG00000013032	phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]	1.125370528	3.01E-07	3.29E-06
		-		
ENSMMUG00000023226	RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]	0.720510335	1.80E-05	0.000129634
		-		
ENSMMUG00000052651	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.030476803	1.43E-05	0.000105742
ENSMMUG00000014438	piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]	-0.72529693	1.14E-07	1.35E-06
ENSMMUG00000017713	solute carrier family 39 member 14 [Source:VGNC Symbol;Acc:VGNC:77537]	0.704295768	0.010294402	0.033211213
ENSMMUG00000018345	phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	1.886127148	1.76E-12	4.93E-11
ENSMMUG00000050868		1.268417085	0.000964406	0.004387972
ENSMMUG00000007540	Rho related BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76772]	0.582068157	0.004831002	0.017432847
ENSMMUG00000048076	TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650]	0.651991584	0.000955465	0.004358202
ENSMMUG00000056749	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.415157142	0.002514722	0.010015817
ENSMMUG00000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	1.616376105	7.70E-08	9.43E-07
ENSMMUG00000016658	ectonucleoside triphosphate diphosphohydrolase 4 [Source:NCBI gene;Acc:717197]	1.019811059	0.01510987	0.045552092
ENSMMUG00000046186	stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]	2.13530781	0.011330054	0.035930409

ENSMMUG0000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	1.961410989	6.26E-21	5.20E-19
ENSMMUG00000056605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.243662972	4.72E-05	0.000308348
ENSMMUG00000059181		0.932581229	0.005798478	0.020385122
		-		
ENSMMUG00000016018	establishment of sister chromatid cohesion N-acetyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:72374]	1.995707601	0.004086517	0.015104423
ENSMMUG00000016019	PDZ binding kinase [Source:VGNC Symbol;Acc:VGNC:75643]	-3.35392283	5.92E-05	0.000375156
		-		
ENSMMUG00000022044	scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]	0.791584693	6.30E-07	6.37E-06
		-		
ENSMMUG00000001040	nuclear GTPase, germinal center associated [Source:VGNC Symbol;Acc:VGNC:75497]	2.814688515	0.016748307	0.049596686
		-		
ENSMMUG00000005067	elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]	1.827051582	2.96E-10	5.72E-09
ENSMMUG00000014981	homeobox containing 1 [Source:VGNC Symbol;Acc:VGNC:73443]	0.803445367	2.53E-05	0.000176406
		-		
ENSMMUG000000061408		3.949105399	8.37E-08	1.02E-06
		-		
ENSMMUG000000063345		4.955037473	6.09E-11	1.32E-09
ENSMMUG00000034978	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.117775537	0.003825876	0.014312083
ENSMMUG00000001635	zinc finger protein 703 [Source:VGNC Symbol;Acc:VGNC:79552]	0.659142515	0.002967373	0.011521556
		-		
ENSMMUG000000051162		2.634877481	0.002251593	0.009137748
ENSMMUG00000003591	pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]	1.483879252	0.000130256	0.000757715
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	2.603426367	1.19E-10	2.46E-09
ENSMMUG00000019306	indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]	2.79078527	0.00031189	0.001628573
ENSMMUG00000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]	1.210846046	1.44E-09	2.45E-08
		-		
ENSMMUG00000014721	glycerol-3-phosphate acyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:84002]	0.810291809	0.00121711	0.00535993
		-		
ENSMMUG00000010891	lysine acetyltransferase 6A [Source:VGNC Symbol;Acc:VGNC:73821]	0.940611432	4.84E-05	0.000315678
ENSMMUG00000020185	voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]	1.832092593	6.43E-06	5.12E-05
ENSMMUG00000020186	solute carrier family 20 member 2 [Source:VGNC Symbol;Acc:VGNC:77416]	1.221855212	0.0023004	0.009296892
ENSMMUG00000053488	small integral membrane protein 19 [Source:NCBI gene;Acc:705371]	0.784720146	3.89E-10	7.44E-09
ENSMMUG000000062518		1.171335956	0.000571992	0.002779093
		-		
ENSMMUG00000002781	peroxidase like [Source:VGNC Symbol;Acc:VGNC:84107]	0.527130803	0.000225507	0.001229632
ENSMMUG000000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	1.994980654	2.64E-28	5.04E-26
ENSMMUG00000025039	Small nucleolar RNA SNORA73 family [Source:RFAM;Acc:RF00045]	3.297583771	0.008166639	0.027297867
ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	0.988790728	4.10E-05	0.000272136
ENSMMUG00000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	0.893136998	6.04E-15	2.51E-13
ENSMMUG00000055121	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.230301131	4.65E-06	3.82E-05
		-		
ENSMMUG00000039862	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.433640644	0.0035407	0.013393484
		-		
ENSMMUG000000061268	PLAG1 zinc finger [Source:NCBI gene;Acc:696149]	1.374408373	9.78E-06	7.50E-05
		-		
ENSMMUG000000046464	coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]	1.306234874	1.88E-07	2.15E-06
		-		
ENSMMUG000000061068		1.129541548	0.000193317	0.001072613
		-		
ENSMMUG00000014810	short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]	1.049658991	3.70E-07	3.97E-06
ENSMMUG000000052791		-1.23677277	1.55E-08	2.17E-07
		-		
ENSMMUG00000006775	proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]	1.316878113	1.39E-09	2.37E-08

ENSMMUG0000006543	cytochrome P450, family 7, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:698127]	3.288815092	0.007317376	0.024905804
ENSMMUG00000017038	RAB2A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81529]	0.604718544	1.20E-05	9.05E-05
ENSMMUG00000059575		2.129673651	1.38E-27	2.39E-25
ENSMMUG00000038661		2.297887452	9.06E-25	1.08E-22
ENSMMUG00000049866		1.183346545	4.01E-11	8.96E-10
ENSMMUG00000014424	ADP ribosylation factor guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:69834]	1.695711051	0.008985529	0.029673476
ENSMMUG00000045333	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-0.5878625	0.000477897	0.00237592
ENSMMUG00000007576	EYA transcriptional coactivator and phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:72453]	0.587971314	9.56E-07	9.24E-06
ENSMMUG00000010748	transient receptor potential cation channel subfamily A member 1 [Source:VGNC Symbol;Acc:VGNC:78429]	0.655317912	0.006742566	0.023160841
ENSMMUG00000060062		1.602268114	0.010620379	0.034021254
ENSMMUG00000046641		0.491538791	0.002367742	0.009503402
ENSMMUG00000007115	RALY RNA binding protein like [Source:VGNC Symbol;Acc:VGNC:82217]	1.191131378	0.002277126	0.009220775
ENSMMUG00000028699		0.951343855	0.012089584	0.037868194
ENSMMUG00000028701		1.079705639	9.41E-05	0.000565287
ENSMMUG00000013193	matrix metalloproteinase 16 [Source:VGNC Symbol;Acc:VGNC:74894]	1.00614805	1.02E-10	2.13E-09
ENSMMUG00000061720		0.713537807	0.013431562	0.041376271
ENSMMUG00000021112	epithelial splicing regulatory protein 1 [Source:VGNC Symbol;Acc:VGNC:72358]	0.801426655	2.60E-06	2.26E-05
ENSMMUG00000057219	tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]	2.618511963	1.09E-05	8.31E-05
ENSMMUG00000003878	carboxypeptidase Q [Source:VGNC Symbol;Acc:VGNC:71426]	0.929903198	0.011629576	0.036656362
ENSMMUG00000055454		0.493985685	0.000116322	0.000683497
ENSMMUG00000060329		0.480020929	0.002704959	0.010607495
ENSMMUG00000061917		0.795439761	2.06E-08	2.81E-07
ENSMMUG00000014210	metadherin [Source:VGNC Symbol;Acc:VGNC:74859]	0.667165194	2.30E-07	2.58E-06
ENSMMUG00000008926	lysosomal protein transmembrane 4 beta [Source:VGNC Symbol;Acc:VGNC:84010]	0.585549401	1.50E-06	1.39E-05
ENSMMUG00000060771		0.801776253	2.94E-08	3.89E-07
ENSMMUG00000020072	matrilin 2 [Source:VGNC Symbol;Acc:VGNC:74665]	0.467062731	0.00133408	0.005799497
ENSMMUG00000058389		0.48520177	0.01418214	0.043266689
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	1.352906988	1.38E-11	3.35E-10
ENSMMUG00000022186	vacuolar protein sorting 13 homolog B [Source:VGNC Symbol;Acc:VGNC:79339]	0.446271761	0.006978245	0.023840832
ENSMMUG00000013742	regulator of G protein signaling 22 [Source:VGNC Symbol;Acc:VGNC:82221]	1.629413963	0.007494842	0.025432427
ENSMMUG00000004386	sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]	1.337958999	0.004339257	0.015905138
ENSMMUG00000061687		-1.23825833	0.001237647	0.005438664
ENSMMUG00000004387	ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]	1.329512783	0.000178516	0.000998879
ENSMMUG00000051088		1.078151417	0.004136821	0.015255447
ENSMMUG00000009958	ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]	-1.75721554	5.27E-07	5.45E-06
ENSMMUG00000034608	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.804722894	0.004831896	0.017432847

ENSMMUG00000051999		-	1.638338681	3.21E-05	0.000218054
ENSMMUG00000001338	antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]	-	2.828497985	0.000185641	0.001035162
ENSMMUG000000054357		-	2.565470742	0.002382556	0.009551906
ENSMMUG000000010744		-	1.399317205	0.00881009	0.029180288
ENSMMUG000000011359	eukaryotic translation initiation factor 3 subunit E [Source:VGNC Symbol;Acc:VGNC:83997]	-	0.801878611	0.000326175	0.001694643
ENSMMUG00000003435	transcriptional repressor GATA binding 1 [Source:VGNC Symbol;Acc:VGNC:78656]	-	0.472810257	0.000969575	0.004405376
ENSMMUG00000002068	mediator complex subunit 30 [Source:VGNC Symbol;Acc:VGNC:74556]	-	3.208801082	0.011401322	0.036117022
ENSMMUG00000004903	ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:VGNC Symbol;Acc:VGNC:72223]	-	0.777307307	0.000577824	0.002806175
ENSMMUG000000014702	TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]	-	0.846625987	0.000415357	0.002101649
ENSMMUG000000058797		-	0.788442459	1.73E-05	0.000124628
ENSMMUG000000052557		-	0.534161721	1.12E-07	1.33E-06
ENSMMUG000000021157	TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]	-	3.508223027	6.03E-06	4.84E-05
ENSMMUG000000020467	ATPase family AAA domain containing 2 [Source:VGNC Symbol;Acc:VGNC:70154]	-	-0.22434525	0.003225417	0.01237474
ENSMMUG000000047542	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	1.708502237	0.000840882	0.003905401
ENSMMUG000000023778	F-box protein 32 [Source:VGNC Symbol;Acc:VGNC:72517]	-	1.126623201	0.000386746	0.001967994
ENSMMUG000000054878		-	1.283986229	0.009482603	0.031026019
ENSMMUG000000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	-	1.042123339	0.0033136	0.012682938
ENSMMUG000000060708		-	0.877179098	0.000623312	0.002998374
ENSMMUG000000058106	otoconin 90 [Source:NCBI gene;Acc:100429699]	-	0.844190584	3.46E-05	0.000233429
ENSMMUG000000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]	-	0.892296554	0.00016395	0.000925567
ENSMMUG000000048066	trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]	-	1.140772379	1.26E-08	1.81E-07
ENSMMUG000000053837		-	4.575685734	0.000354556	0.001823841
ENSMMUG000000052421		-	1.149469355	0.000448743	0.002255664
ENSMMUG000000059617		-	0.881508476	3.48E-05	0.000234753
ENSMMUG00000001432	t-SNARE domain containing 1 [Source:NCBI gene;Acc:701269]	-	0.660728531	3.49E-05	0.000234871
ENSMMUG000000019877	adhesion G protein-coupled receptor B1 [Source:VGNC Symbol;Acc:VGNC:69597]	-	0.680724367	0.011082003	0.035274594
ENSMMUG000000062642		-	-0.81107241	9.42E-05	0.000565319
ENSMMUG00000000959	cytochrome P450, family 11, subfamily B, polypeptide 2 [Source:NCBI gene;Acc:695914]	-	0.469787933	0.014120078	0.043113543
ENSMMUG000000022933	DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]	-	0.862518637	1.29E-09	2.22E-08
ENSMMUG000000059932	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.309198913	0.002106761	0.008644083
ENSMMUG000000010939	rhopilin Rho GTPase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76779]	-	0.738301214	1.29E-06	1.21E-05
ENSMMUG000000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	-	1.052458568	8.50E-08	1.03E-06
ENSMMUG000000013558	poly(U) binding splicing factor 60 [Source:VGNC Symbol;Acc:VGNC:84106]	-	0.860541212	0.002299835	0.009296892
ENSMMUG00000000388	plectin [Source:VGNC Symbol;Acc:VGNC:76173]	-	0.908784972	3.11E-07	3.40E-06
ENSMMUG000000060194	mml-mir-661 [Source:miRBase;Acc:MI0007902]	-	-1.66397521	0.011450193	0.036232358
ENSMMUG000000021279	zinc finger MYND-type containing 11 [Source:VGNC Symbol;Acc:VGNC:79060]	-	0.354161893	0.000202061	0.001114327
ENSMMUG000000050907		-	0.793845622	6.31E-05	0.000397

ENSMMUG00000053106		2.157571462	6.33E-11	1.37E-09
ENSMMUG00000023282	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]	1.248226717	8.48E-07	8.27E-06
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	1.431825275	1.14E-12	3.28E-11
		-		
ENSMMUG00000001290	ankyrin repeat and SOCS box containing 13 [Source:VGNC Symbol;Acc:VGNC:69865]	2.431725824	0.004175818	0.015375851
ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]	-2.34637835	1.42E-08	2.02E-07
		-		
ENSMMUG00000015143	F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]	1.652299385	3.06E-06	2.63E-05
		-		
ENSMMUG00000056045		1.971215539	1.05E-13	3.57E-12
ENSMMUG00000015149	interleukin 15 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73711]	-1.62461423	0.002546312	0.010113591
		-		
ENSMMUG00000015151	interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]	1.677336494	2.73E-06	2.36E-05
		-		
ENSMMUG00000054646		2.645161719	0.00601545	0.021015766
		-		
ENSMMUG00000010596	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 [Source:VGNC Symbol;Acc:VGNC:75959]	2.172175488	0.014665783	0.04446225
ENSMMUG00000061189		0.426420681	0.004792133	0.017307638
ENSMMUG00000052242		0.558163538	0.00767354	0.025929857
		-		
ENSMMUG00000064980		1.348887001	0.000446889	0.00224712
ENSMMUG00000037449	CUGBP Elav-like family member 2 [Source:NCBI gene;Acc:714291]	0.78314403	0.00149644	0.006405697
		-		
ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]	1.107957035	4.45E-07	4.69E-06
		-		
ENSMMUG00000017170	cerebral dopamine neurotrophic factor [Source:VGNC Symbol;Acc:VGNC:71094]	0.473839108	2.73E-05	0.000188604
		-		
ENSMMUG00000017173	heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]	1.718861996	1.19E-05	9.01E-05
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	1.577640942	2.38E-11	5.52E-10
ENSMMUG00000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.254692285	1.80E-11	4.31E-10
ENSMMUG00000016069	cubilin [Source:VGNC Symbol;Acc:VGNC:82132]	2.328402114	5.42E-10	1.00E-08
ENSMMUG00000010589	nebullette [Source:VGNC Symbol;Acc:VGNC:75195]	-0.35600315	0.009056213	0.029893316
ENSMMUG00000002930	G protein-coupled receptor 158 [Source:NCBI gene;Acc:707065]	0.623275522	0.001459662	0.006269097
ENSMMUG00000058873		0.65584583	0.006117438	0.021289917
ENSMMUG00000037243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.540568341	7.75E-09	1.16E-07
		-		
ENSMMUG00000016410	acyl-CoA binding domain containing 5 [Source:VGNC Symbol;Acc:VGNC:69509]	0.819509244	4.09E-05	0.000271556
ENSMMUG00000058108	BMP and activin membrane bound inhibitor [Source:NCBI gene;Acc:710152]	1.09412066	0.004047155	0.014985606
		-		
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]	0.938813035	3.73E-06	3.15E-05
ENSMMUG00000050047	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.703615837	0.004182663	0.015397156
		-		
ENSMMUG00000041067	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.219319127	7.53E-06	5.91E-05
		-		
ENSMMUG00000040958	lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]	1.030340526	1.46E-08	2.06E-07
ENSMMUG00000044214		-1.24806716	1.76E-09	2.94E-08
ENSMMUG00000017767	integrin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73784]	2.248863161	0.003818004	0.014286311
ENSMMUG00000043648		1.758366578	7.34E-05	0.000454353
		-		
ENSMMUG00000057199		1.579886894	2.17E-05	0.000153343
		-		
ENSMMUG00000006713	cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]	0.808573636	2.06E-07	2.33E-06
		-		
ENSMMUG00000054392	zinc finger protein 239 [Source:NCBI gene;Acc:717737]	0.778651368	0.013092101	0.040450557

ENSMMUG00000056797		2.695768636	0.004349521	0.015938741
ENSMMUG00000064634		-		
ENSMMUG00000021308	chromosome 9 C10orf71 homolog [Source:NCBI gene;Acc:710332]	0.403299904	0.0030501	0.011798644
ENSMMUG00000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-		
ENSMMUG00000017380	neuregulin 3 [Source:NCBI gene;Acc:699268]	0.937128608	0.00013748	0.000793075
ENSMMUG00000055918		-0.87638537	1.10E-08	1.60E-07
ENSMMUG00000040878		2.451214853	0.000603699	0.002917544
		3.153242087	2.46E-05	0.000171881
		3.426202845	0.005683538	0.020058652
		-		
ENSMMUG00000058251		1.451637332	0.014504415	0.044046518
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	1.564643129	4.59E-19	3.17E-17
ENSMMUG00000051972	zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]	2.544640444	0.000157545	0.000894624
ENSMMUG00000055601		0.849942881	1.33E-08	1.89E-07
ENSMMUG00000005514	RNA polymerase III subunit A [Source:VGNC Symbol;Acc:VGNC:76138]	0.562599642	0.000958859	0.004372079
ENSMMUG00000009128	discs large MAGUK scaffold protein 5 [Source:VGNC Symbol;Acc:VGNC:71921]	0.654454404	1.71E-08	2.36E-07
		-		
ENSMMUG00000050271		0.911413231	0.00094953	0.004333851
ENSMMUG00000053916		0.846127583	1.58E-06	1.45E-05
ENSMMUG00000050841		0.663957708	0.002313499	0.009334259
		-		
ENSMMUG00000021393	calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]	1.410078851	3.45E-08	4.52E-07
ENSMMUG00000061526	synaptopodin 2 like [Source:NCBI gene;Acc:714736]	1.096599373	1.63E-07	1.90E-06
ENSMMUG00000013696	myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]	1.123342599	9.13E-06	7.02E-05
		-		
ENSMMUG00000011282	DnaJ heat shock protein family (Hsp40) member C9 [Source:NCBI gene;Acc:707599]	3.205813435	0.015345642	0.046136124
		-		
ENSMMUG00000011274	prolyl 4-hydroxylase subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:75741]	0.404297076	0.003652818	0.013778158
		-		
ENSMMUG00000055226	DNA damage inducible transcript 4 [Source:NCBI gene;Acc:715307]	1.877517446	0.000153495	0.000874011
ENSMMUG00000000826	storkhead box 1 [Source:VGNC Symbol;Acc:VGNC:78197]	2.236229612	0.001527497	0.00652519
ENSMMUG00000016652	cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]	0.66398777	0.000191084	0.001061442
ENSMMUG00000023198	tet methylcytosine dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:79811]	0.412415485	0.004333272	0.015887207
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	0.822538985	1.63E-05	0.000117991
ENSMMUG00000019703	RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]	0.655656823	0.000986435	0.004475593
ENSMMUG00000050104	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.826099493	0.000943216	0.004313161
ENSMMUG00000009792	heterogeneous nuclear ribonucleoprotein H3 [Source:VGNC Symbol;Acc:VGNC:73497]	0.758795638	0.000168844	0.000950615
ENSMMUG00000061385		2.207322307	0.001831295	0.007645475
ENSMMUG00000064928		1.906240284	8.21E-05	0.000502266
		-		
ENSMMUG00000017727	jumonji domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73819]	0.938612503	0.002706287	0.010609841
		-		
ENSMMUG00000039940		1.472936871	0.000407176	0.002064566
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	1.4193666	2.99E-23	2.90E-21
		-		
ENSMMUG00000007077	APOBEC1 complementation factor [Source:VGNC Symbol;Acc:VGNC:69523]	0.342776071	0.007466442	0.025371591
		-		
ENSMMUG00000007078	N-acylsphingosine amidohydrolase 2 [Source:NCBI gene;Acc:703913]	0.571512148	1.61E-06	1.48E-05
ENSMMUG00000007081	sphingomyelin synthase 1 [Source:VGNC Symbol;Acc:VGNC:77341]	0.816687392	0.003490281	0.013233756
		-		
ENSMMUG00000014343	lipase family member J [Source:VGNC Symbol;Acc:VGNC:74333]	0.818157012	0.003888645	0.014494675
ENSMMUG00000061761	interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]	-1.17044736	8.66E-07	8.44E-06
		-		
ENSMMUG00000058942		1.454264886	9.46E-10	1.66E-08

ENSMMUG00000017533	interferon induced protein with tetratricopeptide repeats 1 [Source:NCBI gene;Acc:695683]	0.937631358	0.001006354	0.00455035
ENSMMUG00000059038	5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]	1.498047456	8.39E-08	1.02E-06
ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	-1.90730969	8.80E-13	2.59E-11
ENSMMUG00000058603		2.514079041	1.83E-07	2.10E-06
ENSMMUG00000059608	fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]	1.153176867	7.95E-06	6.20E-05
ENSMMUG00000017627	B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	1.635204992	2.73E-25	3.54E-23
ENSMMUG00000004816	membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]	1.059846421	1.62E-10	3.27E-09
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	1.605301056	4.98E-14	1.80E-12
ENSMMUG00000052637	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.049461655	0.000104249	0.000619319
ENSMMUG00000014708	centrosomal protein 55 [Source:VGNC Symbol;Acc:VGNC:70935]	0.352050081	0.010542148	0.033815359
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	2.105618992	0.000289952	0.001531069
ENSMMUG00000050975		1.324154537	6.31E-07	6.38E-06
ENSMMUG00000022658	ectonucleoside triphosphate diphosphohydrolase 1 [Source:HGNC Symbol;Acc:HGNC:3363]	0.477392538	0.003511435	0.01331049
ENSMMUG00000001518	zinc finger protein 518A [Source:VGNC Symbol;Acc:VGNC:79767]	0.568599056	1.46E-06	1.35E-05
ENSMMUG00000008687	B cell linker [Source:VGNC Symbol;Acc:VGNC:70306]	0.759865598	7.49E-12	1.90E-10
ENSMMUG00000001876	phosphoinositide-3-kinase adaptor protein 1 [Source:VGNC Symbol;Acc:VGNC:75891]	0.747647436	0.000608626	0.002939402
ENSMMUG00000010427	ligand dependent nuclear receptor corepressor [Source:NCBI gene;Acc:705646]	0.480896249	0.004753367	0.017180433
ENSMMUG00000019634	ribosomal RNA processing 12 homolog [Source:VGNC Symbol;Acc:VGNC:77122]	0.446299538	0.000232756	0.001262997
ENSMMUG00000015503	zinc finger FYVE-type containing 27 [Source:VGNC Symbol;Acc:VGNC:79623]	0.626914443	1.67E-07	1.94E-06
ENSMMUG00000060995		2.938470585	0.001912064	0.00794162
ENSMMUG00000020603	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]	0.975719191	4.49E-11	9.87E-10
ENSMMUG00000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.263938888	2.21E-18	1.38E-16
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.18648869	5.98E-17	3.20E-15
ENSMMUG00000049770	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.566574775	1.46E-06	1.36E-05
ENSMMUG00000020605	heparanase 2 (inactive) [Source:NCBI gene;Acc:708795]	1.019723209	2.61E-08	3.49E-07
ENSMMUG00000060230	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.77781916	0.006109004	0.021281235
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	1.004454426	1.25E-07	1.49E-06
ENSMMUG00000010356	glutamic-oxaloacetic transaminase 1 [Source:VGNC Symbol;Acc:VGNC:73111]	2.523944198	0.002367842	0.009503402
ENSMMUG00000063121		1.166369785	0.00752938	0.025513893
ENSMMUG00000003610	sortilin related VPS10 domain containing receptor 3 [Source:VGNC Symbol;Acc:VGNC:77934]	0.664348169	0.008920966	0.029480356
ENSMMUG00000058962		3.913270976	0.001277787	0.005587821
ENSMMUG00000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	1.482302677	4.62E-07	4.85E-06
ENSMMUG00000006233	adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]	1.084924535	0.005757107	0.020282664
ENSMMUG00000014350	MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]	0.855317389	8.23E-05	0.000502859
ENSMMUG00000007775	survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]	1.151106552	5.49E-05	0.000352652
ENSMMUG00000057793	dual specificity phosphatase 5 [Source:NCBI gene;Acc:698178]	2.410516815	0.007489113	0.025426341
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	3.507796625	4.86E-06	3.99E-05

ENSMMUG00000056056		-	3.818104062	0.000118286	0.000693914
ENSMMUG00000017206	SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]	-3.35620377	1.89E-05	0.000135196	
ENSMMUG00000003548	tectorin beta [Source:VGNC Symbol;Acc:VGNC:78306]	1.92423118	0.000552628	0.002697634	
ENSMMUG000000053789		-	0.783323085	0.000321792	0.001674862
ENSMMUG00000001217	caspase 7 [Source:VGNC Symbol;Acc:VGNC:70546]	-	0.786098976	0.000194788	0.00107954
ENSMMUG000000055239		0.718375353	1.40E-05	0.000103659	
ENSMMUG00000022514	coiled-coil domain containing 186 [Source:VGNC Symbol;Acc:VGNC:70847]	0.648955923	4.30E-11	9.50E-10	
ENSMMUG00000022524	actin binding LIM protein 1 [Source:VGNC Symbol;Acc:VGNC:69587]	-	0.315320182	0.016478255	0.048939736
ENSMMUG000000058240		-	1.325710264	5.13E-05	0.000332168
ENSMMUG00000015414	family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]	-	1.076673054	1.57E-05	0.000114369
ENSMMUG00000001902	TruB pseudouridine synthase family member 1 [Source:VGNC Symbol;Acc:VGNC:79005]	1.014931377	0.008116245	0.027154397	
ENSMMUG00000020080	GDNF family receptor alpha 1 [Source:VGNC Symbol;Acc:VGNC:72917]	2.86710254	0.000155879	0.000886895	
ENSMMUG00000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]	1.862970781	3.10E-18	1.92E-16	
ENSMMUG000000054942		1.274895763	0.001298027	0.005664789	
ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]	1.432905989	4.62E-06	3.80E-05	
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]	1.712421812	1.92E-08	2.63E-07	
ENSMMUG00000009561	SEC23 interacting protein [Source:VGNC Symbol;Acc:VGNC:77255]	-	1.028873609	0.001530018	0.006534039
ENSMMUG000000064321		1.656964839	4.70E-08	5.99E-07	
ENSMMUG000000064557		1.615552813	2.72E-15	1.20E-13	
ENSMMUG000000052711		-	0.462589735	0.007930374	0.026618297
ENSMMUG00000000684	acyl-CoA dehydrogenase short/branched chain [Source:VGNC Symbol;Acc:VGNC:81343]	-	0.986618855	0.015778091	0.04717526
ENSMMUG00000020346	carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]	0.853992859	1.46E-07	1.72E-06	
ENSMMUG000000058933		-1.38164407	0.001130916	0.005024487	
ENSMMUG00000008539	uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]	-	0.705995556	0.000122115	0.000713498
ENSMMUG00000008541	BRCA2 and CDKN1A interacting protein [Source:NCBI gene;Acc:699437]	-	0.701815545	0.000133088	0.000771718
ENSMMUG00000008542	DEAH-box helicase 32 (putative) [Source:NCBI gene;Acc:695919]	-	0.489822874	0.003921482	0.014590141
ENSMMUG000000053682		1.412878513	0.003641385	0.013740001	
ENSMMUG00000013653	lysine demethylase 5A [Source:VGNC Symbol;Acc:VGNC:82169]	0.456824421	5.46E-05	0.000350935	
ENSMMUG00000013894	beta-1,4-N-acetyl-galactosaminyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:70121]	-	1.495080316	5.25E-05	0.000338577
ENSMMUG00000007405	FKBP prolyl isomerase 4 [Source:VGNC Symbol;Acc:VGNC:72664]	-	1.557132218	0.006799683	0.023296487
ENSMMUG00000007411	integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]	-	1.813254501	5.30E-14	1.90E-12
ENSMMUG00000007424	nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]	-	1.705771674	2.57E-13	8.11E-12
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]	-	1.190464568	3.60E-15	1.55E-13
ENSMMUG000000061935		3.495840831	2.84E-26	4.13E-24	
ENSMMUG00000015189	RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]	-	0.998195181	0.000111218	0.000655098
ENSMMUG00000020811	dual specificity tyrosine phosphorylation regulated kinase 4 [Source:NCBI gene;Acc:710999]	-	0.549312469	0.005637418	0.019939452

ENSMMUG00000020812	A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]	-	1.674933549	1.28E-05	9.59E-05
ENSMMUG00000020813	NADH:ubiquinone oxidoreductase subunit A9 [Source:VGNC Symbol;Acc:VGNC:81480]	-	0.815993126	0.000134501	0.00077867
ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	-	3.381470015	1.69E-08	2.34E-07
ENSMMUG00000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	5.600435207	3.39E-10	6.52E-09
ENSMMUG00000061974		-	3.964198219	0.001670593	0.007065876
ENSMMUG00000004470	CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]	-	3.026282758	6.91E-07	6.93E-06
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	-	3.061170537	4.70E-51	1.14E-47
ENSMMUG00000053013		-	1.567404108	1.89E-08	2.60E-07
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	-	2.051844624	5.28E-13	1.59E-11
ENSMMUG00000018679	glyceraldehyde-3-phosphate dehydrogenase [Source:NCBI gene;Acc:574353]	-	1.070603673	0.000610804	0.002946984
ENSMMUG00000018685	chromodomain helicase DNA binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71029]	-	0.483881738	0.006968363	0.023812669
ENSMMUG00000017619	lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]	-	0.580402404	8.74E-06	6.74E-05
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	-	1.754699254	9.67E-16	4.58E-14
ENSMMUG00000016985	inhibitor of growth family member 4 [Source:VGNC Symbol;Acc:VGNC:73628]	-	0.449899877	0.001012689	0.004573301
ENSMMUG00000016990	zinc finger protein 384 [Source:VGNC Symbol;Acc:VGNC:78610]	-	-0.37934563	0.004448239	0.016240832
ENSMMUG00000050979	PILR alpha associated neural protein [Source:NCBI gene;Acc:713548]	-	1.540175015	0.004523142	0.016452619
ENSMMUG00000009583	COP9 signalosome subunit 7A [Source:VGNC Symbol;Acc:VGNC:71185]	-	1.49415954	0.000694005	0.003298057
ENSMMUG00000010201	atrophin 1 [Source:VGNC Symbol;Acc:VGNC:70157]	-	0.895747329	8.38E-05	0.000510719
ENSMMUG00000010203	protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]	-	0.906371592	0.000343956	0.001774968
ENSMMUG00000010210	lysophosphatidylcholine acyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:74405]	-	2.780581746	0.009612109	0.031365034
ENSMMUG00000012786	complement C1s [Source:VGNC Symbol;Acc:VGNC:70297]	-	0.531793459	0.000717503	0.003389776
ENSMMUG00000006470	complement C1r subcomponent [Source:NCBI gene;Acc:722133]	-	0.78286895	1.89E-09	3.15E-08
ENSMMUG00000022109	CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]	-	1.152067721	1.08E-06	1.04E-05
ENSMMUG00000057570		-	2.147872541	6.68E-18	3.97E-16
ENSMMUG00000048744		-	1.522084138	0.001636571	0.006940151
ENSMMUG00000057785		-	5.259874854	1.66E-07	1.93E-06
ENSMMUG00000061774	taste 2 receptor member 10 [Source:NCBI gene;Acc:717960]	-	3.941122247	4.87E-05	0.000316868
ENSMMUG00000050862		-	1.023812609	0.000287884	0.001522916
ENSMMUG00000018298	killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]	-	3.729659926	3.61E-08	4.71E-07
ENSMMUG00000015305	C-type lectin domain family 2 member A [Source:VGNC Symbol;Acc:VGNC:71329]	-	1.431546661	0.003179994	0.012217766
ENSMMUG00000045446		-	3.183500887	6.44E-05	0.000404524
ENSMMUG00000032892	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	-1.02010419	0.011455101	0.03624
ENSMMUG00000044047	killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]	-	0.927609639	0.000872367	0.004031023
ENSMMUG00000056741	ovostatin-like [Source:NCBI gene;Acc:722294]	-	2.027355229	0.000683625	0.003258315
ENSMMUG00000003238	pregnancy zone protein [Source:NCBI gene;Acc:100430319]	-	0.853034573	0.003860524	0.014423141
ENSMMUG00000022680	alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]	-	1.127133587	0.000628276	0.00301826
ENSMMUG00000022676	ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]	-	3.157322093	0.002274633	0.009218384

ENSMMUG00000052134		1.175285002	0.002336887	0.009405129
ENSMMUG00000060675		1.127442436	1.83E-06	1.65E-05
ENSMMUG00000021005	taste receptor type 2 member 50 [Source:NCBI gene;Acc:693513]	1.213520733	0.000458656	0.00229834
ENSMMUG00000056428	taste receptor type 2 member 20 [Source:NCBI gene;Acc:693643]	1.113429002	0.001833873	0.007651841
ENSMMUG00000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	1.247709373	8.61E-07	8.40E-06
ENSMMUG00000054225	taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]	1.680500902	6.08E-05	0.000384222
ENSMMUG00000042870	Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]	1.282974981	3.51E-05	0.000236088
ENSMMUG00000055308	basic salivary proline-rich protein 2-like [Source:NCBI gene;Acc:695018]	3.636484443	0.000657343	0.003145423
ENSMMUG00000064931		3.529875333	3.78E-09	5.94E-08
ENSMMUG00000014370	ETS variant transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:72444]	-0.75509435	0.006164229	0.021427404
		-		
ENSMMUG00000023317	LDL receptor related protein 6 [Source:VGNC Symbol;Acc:VGNC:74446]	0.670474318	0.009868049	0.032070606
ENSMMUG00000047247	matrix Gla protein [Source:NCBI gene;Acc:574116]	2.286453547	0.000486968	0.002414414
ENSMMUG00000018030	endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]	1.88629792	2.01E-08	2.74E-07
ENSMMUG00000053781	Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]	2.450147029	5.06E-07	5.26E-06
ENSMMUG00000050529	phosphodiesterase 6H [Source:NCBI gene;Acc:700447]	2.277235679	0.00039505	0.002006586
		-		
ENSMMUG00000022176	capping actin protein of muscle Z-line subunit alpha 3 [Source:VGNC Symbol;Acc:VGNC:70618]	1.857763516	0.010758045	0.034416748
		-		
ENSMMUG00000049682	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.303161312	5.32E-07	5.49E-06
		-		
ENSMMUG00000048030	ferritin, heavy polypeptide 1-like [Source:NCBI gene;Acc:707011]	1.874303334	0.016204457	0.048241695
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	-2.59373845	1.91E-05	0.000136105
		-		
ENSMMUG00000057276		2.474676406	2.85E-05	0.000195707
ENSMMUG00000038076	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.161044013	0.000440362	0.002218136
ENSMMUG00000060493		0.810256739	1.01E-08	1.47E-07
ENSMMUG00000012223	branched chain amino acid transaminase 1 [Source:VGNC Symbol;Acc:VGNC:70236]	0.501304344	1.39E-05	0.000102819
		-		
ENSMMUG00000053657		3.229364845	3.62E-05	0.000242861
ENSMMUG00000018630	sarcospan [Source:VGNC Symbol;Acc:VGNC:77887]	0.485196423	0.000456898	0.002290319
ENSMMUG00000060495		0.473784364	0.00384189	0.014357214
ENSMMUG00000007050		0.785457863	0.00573064	0.02019547
ENSMMUG00000050627		0.415326007	0.000759808	0.00356416
ENSMMUG00000023128	inositol 1,4,5-trisphosphate receptor type 2 [Source:VGNC Symbol;Acc:VGNC:73805]	0.370251218	0.002050719	0.008440346
ENSMMUG00000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	1.693711882	5.60E-15	2.35E-13
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	1.715108924	4.18E-18	2.57E-16
		-		
ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]	0.978593754	0.000350282	0.00180441
		-		
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	1.109792268	2.73E-09	4.40E-08
ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]	0.81548134	1.21E-05	9.12E-05
		-		
ENSMMUG00000001361	importin 8 [Source:VGNC Symbol;Acc:VGNC:73815]	0.719976715	0.008164759	0.027297863
		-		
ENSMMUG00000001359	caprin family member 2 [Source:VGNC Symbol;Acc:VGNC:70599]	0.513636916	0.0102865	0.033193086
		-		
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	1.211352555	6.93E-24	7.20E-22
		-		
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	3.210702158	4.23E-10	8.03E-09
		-		
ENSMMUG00000039300		2.838419065	1.73E-06	1.57E-05
		-		
ENSMMUG00000003221	DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]	1.005909234	0.000105489	0.00062566

ENSMMUG00000063112		1.458952669	7.84E-05	0.000482128
ENSMMUG00000056303		-		
ENSMMUG00000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	1.521478274	0.002301279	0.009297621
ENSMMUG00000060215	Y RNA [Source:RFAM;Acc:RF00019]	-1.04435489	1.54E-18	9.92E-17
ENSMMUG00000052030	developing brain homeobox 2 [Source:NCBI gene;Acc:701170]	-		
ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]	0.617746705	0.000907796	0.004169553
ENSMMUG00000023791	SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]	-		
ENSMMUG00000022359	solute carrier family 38 member 2 [Source:VGNC Symbol;Acc:VGNC:77469]	0.929061657	7.80E-08	9.53E-07
ENSMMUG00000064730		-		
ENSMMUG00000012331	solute carrier family 38 member 4 [Source:VGNC Symbol;Acc:VGNC:77484]	1.071595298	1.04E-05	7.93E-05
ENSMMUG00000049514	solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]	-		
ENSMMUG00000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	2.532465461	1.28E-05	9.61E-05
ENSMMUG00000006727	vitamin D receptor [Source:VGNC Symbol;Acc:VGNC:78764]	-		
ENSMMUG00000020125	SUMO specific peptidase 1 [Source:NCBI gene;Acc:707603]	0.452633938	0.00825969	0.027570864
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	2.641213669	2.03E-20	1.60E-18
ENSMMUG00000003877	KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]	-		
ENSMMUG00000054025	testis expressed 49 [Source:NCBI gene;Acc:709603]	0.504243406	0.007781085	0.02620798
ENSMMUG00000012769	limb development membrane protein 1 like [Source:VGNC Symbol;Acc:VGNC:74310]	0.550335508	0.003922286	0.014590141
ENSMMUG00000021081	tubulin alpha 1b [Source:NCBI gene;Acc:709643]	0.679402225	1.53E-08	2.14E-07
ENSMMUG00000028047	Y RNA [Source:RFAM;Acc:RF00019]	0.529865197	2.15E-05	0.000152434
ENSMMUG00000009788	tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]	-		
ENSMMUG00000031976	peripherin [Source:NCBI gene;Acc:709827]	1.460411681	0.006325014	0.021918171
ENSMMUG0000007544	trophinin associated protein [Source:VGNC Symbol;Acc:VGNC:78650]	-		
ENSMMUG0000007546	complement C1q like 4 [Source:VGNC Symbol;Acc:VGNC:70450]	2.191075853	6.46E-13	1.92E-11
ENSMMUG0000007548	DnaJ heat shock protein family (Hsp40) member C22 [Source:NCBI gene;Acc:710205]	-		
ENSMMUG00000064430		1.448572469	3.25E-06	2.78E-05
ENSMMUG0000003762	spermatogenesis associated serine rich 2 [Source:VGNC Symbol;Acc:VGNC:77958]	-		
ENSMMUG00000049374		0.665531896	0.001098698	0.004893312
ENSMMUG0000005960	transmembrane BAX inhibitor motif containing 6 [Source:NCBI gene;Acc:677702]	-		
ENSMMUG00000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	0.540394947	0.010206539	0.032964331
ENSMMUG00000058855	aquaporin 5 [Source:NCBI gene;Acc:711804]	-		
ENSMMUG0000006529	acid sensing ion channel subunit 1 [Source:VGNC Symbol;Acc:VGNC:70035]	0.595488857	0.004092996	0.015120682
ENSMMUG0000006531	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 [Source:VGNC Symbol;Acc:VGNC:77653]	-		
ENSMMUG00000018485	methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]	1.429275382	0.0145269	0.044105586
ENSMMUG00000000152	transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]	1.409231286	1.98E-09	3.29E-08
ENSMMUG00000044229	POU class 6 homeobox 1 [Source:NCBI gene;Acc:694640]	1.139541524	0.003737769	0.014043927
ENSMMUG0000004982	activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]	0.928201482	9.41E-06	7.23E-05
		1.17210075	0.000558839	0.002724293
		1.264426013	8.90E-05	0.000539117
		0.721288232	0.002545337	0.01011248
		-		
		0.397749778	0.001196093	0.005278566
		0.678935907	0.002928548	0.011398207
		0.211939831	0.005064071	0.018167916
		0.998803468	2.26E-18	1.41E-16
		-		
		0.909252592	0.002693677	0.010566104
		-		
		0.755897947	0.008342777	0.027797147
		-		
		0.757151704	0.003440574	0.01308282
		1.185850599	0.001060835	0.004758212
		2.075126709	1.12E-06	1.06E-05
		3.111760524	0.014686318	0.044515222
		3.377912282	0.000146082	0.00083804

ENSMMUG00000022922	nuclear receptor subfamily 4 group A member 1 [Source:VGNC Symbol;Acc:VGNC:75517]	0.532458246	2.00E-05	0.000142247
ENSMMUG00000015392	autophagy related 101 [Source:VGNC Symbol;Acc:VGNC:70132]	1.714834743	0.008327502	0.027765345
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	0.717574754	4.58E-13	1.40E-11
ENSMMUG00000064514	keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]	1.122893936	2.03E-11	4.81E-10
ENSMMUG00000018216	keratin, type II cuticular Hb5 [Source:NCBI gene;Acc:698320]	1.237580231	0.002481446	0.009899227
ENSMMUG00000018217	keratin 84 [Source:VGNC Symbol;Acc:VGNC:74220]	1.150555775	0.00185705	0.007737443
ENSMMUG00000057134	keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]	0.936193218	0.002653731	0.010446057
ENSMMUG00000055016	keratin, type II cytoskeletal 6A [Source:NCBI gene;Acc:719283]	0.522589374	8.25E-08	1.00E-06
ENSMMUG00000014980	keratin 76 [Source:VGNC Symbol;Acc:VGNC:74112]	1.481523083	7.58E-05	0.000468191
ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	1.720347253	7.90E-11	1.69E-09
ENSMMUG00000052817	Sp7 transcription factor [Source:NCBI gene;Acc:702575]	1.571098209	4.91E-07	5.12E-06
ENSMMUG00000020036	Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]	1.171625981	2.84E-05	0.000195132
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	1.139487149	1.98E-06	1.77E-05
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	1.241661665	3.66E-06	3.09E-05
ENSMMUG00000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	2.493051674	1.15E-18	7.58E-17
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	1.186201612	5.67E-13	1.70E-11
ENSMMUG00000016203	thymocyte expressed, positive selection associated 1 [Source:VGNC Symbol;Acc:VGNC:79775]	0.448994335	0.005401355	0.019207313
ENSMMUG00000057094	olfactory receptor, family 6, subfamily C, member 4 [Source:NCBI gene;Acc:708807]	1.192840564	0.012453984	0.038858891
ENSMMUG00000055590		0.920288582	1.57E-06	1.45E-05
ENSMMUG00000006293	SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]	0.791861783	2.21E-09	3.62E-08
ENSMMUG00000053458	ORMDL sphingolipid biosynthesis regulator 2 [Source:NCBI gene;Acc:710296]	0.703524128	2.61E-06	2.27E-05
ENSMMUG00000051937	uncharacterized LOC707807 [Source:NCBI gene;Acc:707807]	0.592218716	0.014351375	0.043700447
ENSMMUG00000006295	matrix metalloproteinase 19 [Source:VGNC Symbol;Acc:VGNC:74896]	0.666189619	0.000702964	0.00333518
ENSMMUG00000064364	sulfite oxidase [Source:NCBI gene;Acc:711164]	1.244307058	6.54E-06	5.20E-05
ENSMMUG00000064075	ring finger protein 41 [Source:NCBI gene;Acc:711969]	1.007581727	5.73E-05	0.000365025
ENSMMUG00000054020	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.957101296	0.004505797	0.016399793
ENSMMUG00000059663		0.963088737	8.33E-07	8.16E-06
ENSMMUG00000031834	coenzyme Q10A [Source:VGNC Symbol;Acc:VGNC:71356]	0.798895623	0.015790567	0.047193149
ENSMMUG00000002483	citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]	1.155233838	0.000120731	0.000706266
ENSMMUG00000013482	poly(A) specific ribonuclease subunit PAN2 [Source:NCBI gene;Acc:712478]	1.653628253	0.016584149	0.049220861
ENSMMUG00000000803	signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]	2.039261786	2.55E-09	4.15E-08
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]	2.398722658	5.47E-11	1.19E-09
ENSMMUG00000053460		1.874238585	8.22E-08	1.00E-06
ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]	1.137993117	1.36E-07	1.60E-06
ENSMMUG00000013766	prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]	0.584296183	0.001815961	0.007585811
ENSMMUG00000004522	DNA primase subunit 1 [Source:NCBI gene;Acc:710253]	0.45970185	9.18E-05	0.000553669
ENSMMUG00000057617	hydroxysteroid 17-beta dehydrogenase 6 [Source:NCBI gene;Acc:713549]	0.91412929	0.010845771	0.034644029

ENSMMUG00000043411	zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]	-	1.336823425	1.26E-05	9.43E-05
ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]	-	1.271167268	4.29E-08	5.51E-07
ENSMMUG00000003203	tachykinin precursor 3 [Source:VGNC Symbol;Acc:VGNC:78079]	-	2.079846524	0.004154513	0.015309039
ENSMMUG00000013518	myosin IA [Source:VGNC Symbol;Acc:VGNC:75110]	-	0.460618022	0.00022803	0.001241007
ENSMMUG00000021782	LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]	-	0.941964217	7.08E-11	1.52E-09
ENSMMUG00000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]	-	1.223819017	2.21E-11	5.17E-10
ENSMMUG00000055477		-	1.466926489	7.60E-12	1.93E-10
ENSMMUG00000001210	elongation factor 1-alpha 1 [Source:NCBI gene;Acc:100425937]	-	2.573959491	0.015846424	0.047330896
ENSMMUG000000063744		-	4.206345192	0.000363568	0.001862949
ENSMMUG000000062139		-	1.856485282	6.99E-07	7.00E-06
ENSMMUG00000011579	TAFA chemokine like family member 2 [Source:VGNC Symbol;Acc:VGNC:78189]	-	0.541949648	3.61E-06	3.05E-05
ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]	-	4.338393208	4.21E-15	1.80E-13
ENSMMUG00000007658	TANK binding kinase 1 [Source:VGNC Symbol;Acc:VGNC:78107]	-	0.256372707	0.006076324	0.021194755
ENSMMUG00000003669	methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]	-	0.816333102	2.60E-07	2.89E-06
ENSMMUG000000041729		-	1.18216614	1.64E-05	0.000118766
ENSMMUG00000011650	dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]	-	1.431971973	1.95E-05	0.000139374
ENSMMUG00000055447	MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]	-	1.003086826	5.74E-13	1.72E-11
ENSMMUG00000053722		-	2.7384487	5.56E-06	4.50E-05
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]	-	1.096388362	2.86E-11	6.54E-10
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]	-	2.705826013	9.79E-14	3.35E-12
ENSMMUG00000054953	leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]	-	4.223665419	7.46E-07	7.40E-06
ENSMMUG00000012290	GLIPR1 like 2 [Source:VGNC Symbol;Acc:VGNC:81413]	-	-0.79730228	0.01180527	0.037097538
ENSMMUG00000059985		-	3.960544376	1.63E-05	0.000118335
ENSMMUG00000005530	synaptotagmin 1 [Source:VGNC Symbol;Acc:VGNC:78074]	-	0.816133155	0.004918189	0.017710112
ENSMMUG00000017463		-	2.925508353	0.007911311	0.026560446
ENSMMUG00000038410		-	1.319641232	0.001609669	0.006844037
ENSMMUG00000055284		-	1.333368546	0.013154393	0.040625751
ENSMMUG00000058404		-	0.511804482	0.006216919	0.021583555
ENSMMUG00000049117	CLLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]	-	3.812821548	0.000370904	0.001895197
ENSMMUG00000002243	pleckstrin homology and RhoGEF domain containing G7 [Source:VGNC Symbol;Acc:VGNC:76149]	-	0.908706712	2.35E-08	3.18E-07
ENSMMUG00000002244	early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]	-	0.829721689	3.26E-06	2.78E-05
ENSMMUG00000052496		-	0.863602407	1.82E-13	5.89E-12
ENSMMUG00000055071	Y RNA [Source:RFAM;Acc:RF00019]	-	1.371417761	0.011655209	0.036713278

ENSMMUG00000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	1.396371353	1.25E-15	5.84E-14
ENSMMUG00000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	1.504416056	7.30E-14	2.54E-12
		-		
ENSMMUG00000018901	FYVE, RhoGEF and PH domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72548]	0.657120481	0.000349825	0.001802924
		-		
ENSMMUG00000062006	methionyl aminopeptidase 2 [Source:NCBI gene;Acc:712400]	0.907695549	0.000213125	0.001170899
		-		
ENSMMUG00000009303	coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]	1.171552122	3.60E-06	3.04E-05
ENSMMUG00000009308	histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]	2.879176229	1.63E-06	1.49E-05
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	2.330679691	9.43E-27	1.47E-24
ENSMMUG00000053376		2.777464438	9.18E-20	6.67E-18
ENSMMUG00000050585		2.577421906	1.63E-14	6.39E-13
ENSMMUG00000022404	apoptotic peptidase activating factor 1 [Source:VGNC Symbol;Acc:VGNC:69975]	0.424862429	4.89E-05	0.00031818
ENSMMUG00000022406	ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]	1.07834174	1.40E-10	2.86E-09
		-		
ENSMMUG00000061260	Spi-C transcription factor [Source:NCBI gene;Acc:695809]	1.095681357	1.21E-09	2.08E-08
ENSMMUG00000042077	DNA damage regulated autophagy modulator 1 [Source:NCBI gene;Acc:697427]	0.834731509	6.04E-13	1.81E-11
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	2.366892916	2.52E-22	2.34E-20
ENSMMUG00000061923		2.177162703	6.84E-06	5.44E-05
ENSMMUG00000005504	nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]	2.29230438	7.03E-08	8.69E-07
ENSMMUG00000005506	PARP1 binding protein [Source:VGNC Symbol;Acc:VGNC:75682]	0.627936606	0.000166737	0.000939842
		-		
ENSMMUG00000038958	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.140546324	0.006076889	0.021194755
		-		
ENSMMUG00000023469	heat shock protein 90 beta family member 1 [Source:NCBI gene;Acc:699568]	0.936693424	0.01596875	0.047627765
		-		
ENSMMUG00000021291	thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]	0.998287711	0.000134078	0.000776531
		-		
ENSMMUG00000021292	glycosyltransferase 8 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73004]	1.031607371	0.005987137	0.020936941
		-		
ENSMMUG00000022570	nuclear transcription factor Y subunit beta [Source:NCBI gene;Acc:700451]	0.623453853	0.000174227	0.000977515
		-		
ENSMMUG00000012091	thioredoxin reductase 1 [Source:VGNC Symbol;Acc:VGNC:78679]	0.679088211	8.39E-06	6.50E-05
ENSMMUG00000017127	carbohydrate sulfotransferase 11 [Source:VGNC Symbol;Acc:VGNC:82123]	0.974633704	0.000713162	0.003372844
ENSMMUG00000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	1.026390801	9.13E-09	1.35E-07
		-		
ENSMMUG00000052372		1.256526964	0.00084979	0.003942995
		-		
ENSMMUG00000009519	WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]	1.159007938	1.69E-06	1.54E-05
		-		
ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]	1.032258517	3.51E-09	5.55E-08
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	2.093808705	1.33E-08	1.90E-07
		-		
ENSMMUG00000022118	regulatory factor X4 [Source:VGNC Symbol;Acc:VGNC:76909]	0.944249428	0.012655643	0.039310914
		-		
ENSMMUG00000022278	mitochondrial transcription termination factor 2 [Source:VGNC Symbol;Acc:VGNC:74868]	1.378680416	0.00013304	0.000771718
		-		
ENSMMUG00000021808	cryptochrome circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:71499]	0.467158176	0.001386465	0.006003884
		-		
ENSMMUG00000015540	BTB domain containing 11 [Source:VGNC Symbol;Acc:VGNC:70367]	1.564891869	6.30E-05	0.00039657
		-		
ENSMMUG00000015544	PWP1 homolog, endonuclein [Source:NCBI gene;Acc:705262]	2.131808414	0.001832083	0.007646567
		-		
ENSMMUG00000015550	PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]	1.889866539	7.29E-07	7.24E-06

ENSMMUG00000021049	ret finger protein-like 3 [Source:NCBI gene;Acc:705507]	1.997451779	0.002667045	0.010484271
ENSMMUG00000017124	spliceosome associated factor 3, U4/U6 recycling protein [Source:VGNC Symbol;Acc:VGNC:77029]	1.14517227	0.00171936	0.007248937
ENSMMUG00000054621		1.994533324	0.005826819	0.020460017
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	1.009510857	3.02E-07	3.30E-06
ENSMMUG00000015108	SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]	0.539769546	0.002039872	0.008407603
ENSMMUG00000056729	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.833128211	2.82E-05	0.000194489
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	0.916122777	8.35E-07	8.16E-06
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	0.866735367	1.17E-08	1.69E-07
ENSMMUG00000003297	coiled-coil domain containing 63 [Source:VGNC Symbol;Acc:VGNC:70879]	0.897165704	2.10E-05	0.000149035
ENSMMUG00000002347	myosin light chain 2 [Source:VGNC Symbol;Acc:VGNC:75103]	0.874514971	0.000925981	0.004242355
ENSMMUG00000008336	acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]	0.760535395	1.91E-12	5.33E-11
ENSMMUG00000053496		0.717240651	0.002178048	0.008887387
ENSMMUG00000060754	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.876810756	1.33E-08	1.89E-07
ENSMMUG00000060917		0.549141276	0.009948266	0.032287997
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	1.041721222	2.70E-06	2.35E-05
ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]	-1.18815322	1.11E-06	1.06E-05
ENSMMUG00000004435	two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]	3.071842264	2.48E-19	1.75E-17
ENSMMUG00000059861	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.699980521	0.00773922	0.026079054
ENSMMUG00000006723	solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]	2.858680446	1.28E-22	1.22E-20
ENSMMUG00000004205	phospholipase B domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76122]	2.419147839	0.000413492	0.002093673
ENSMMUG00000004208	serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]	2.038570144	2.57E-05	0.00017858
ENSMMUG00000051363		1.126044152	3.28E-05	0.000222273
ENSMMUG00000054768		0.860064497	4.83E-06	3.97E-05
ENSMMUG00000057506		0.664658646	4.34E-05	0.000287013
ENSMMUG00000052680		0.653538261	5.24E-05	0.000338069
ENSMMUG00000017478	tescalcin [Source:VGNC Symbol;Acc:VGNC:79571]	0.673130858	0.001089883	0.004860008
ENSMMUG00000014027	nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]	1.372834507	1.75E-05	0.000126042
ENSMMUG00000062615		1.286852953	0.00065664	0.003143092
ENSMMUG00000005421	kinase suppressor of ras 2 [Source:VGNC Symbol;Acc:VGNC:74075]	1.162873093	0.000352738	0.001815133
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	0.873484331	2.98E-09	4.77E-08
ENSMMUG00000053710		0.831956909	7.74E-09	1.16E-07
ENSMMUG00000011209	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	0.945429251	8.24E-05	0.00050335
ENSMMUG00000055209		0.876503199	2.84E-07	3.12E-06
ENSMMUG00000046665	glutamyl-tRNA amidotransferase subunit C [Source:NCBI gene;Acc:702258]	0.888004082	0.014662304	0.044460975
ENSMMUG00000004223	ring finger protein 10 [Source:VGNC Symbol;Acc:VGNC:76702]	0.766698159	2.52E-06	2.20E-05
ENSMMUG00000055513		1.628152245	0.008287997	0.027652655
ENSMMUG00000058536		2.062103411	2.33E-27	3.94E-25
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	1.729531932	8.44E-10	1.50E-08
ENSMMUG00000039520	chromosome 11 C12orf43 homolog [Source:NCBI gene;Acc:698821]	0.544761433	0.011125981	0.035368114
ENSMMUG00000006441	2'-5'-oligoadenylate synthetase like [Source:VGNC Symbol;Acc:VGNC:75572]	0.691756343	0.009774442	0.031830437
ENSMMUG00000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	4.308539054	1.48E-46	2.39E-43
ENSMMUG00000059782		4.982135786	9.12E-48	1.89E-44

ENSMMUG00000038707	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.581144635	0.003340899	0.012761128
ENSMMUG00000041124	MORN repeat containing 3 [Source:NCBI gene;Acc:700317]	0.830148744	0.001667549	0.007057105
ENSMMUG00000063813	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.167251177	0.012568442	0.039132029
ENSMMUG00000031504	transmembrane protein 120B [Source:VGNC Symbol;Acc:VGNC:79917]	0.355104048	0.003712626	0.013960282
ENSMMUG00000016454	4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]	0.715982215	7.30E-07	7.24E-06
		-		
ENSMMUG00000013643	zinc finger CCHC-type containing 8 [Source:VGNC Symbol;Acc:VGNC:79487]	1.771559427	0.001812191	0.007576593
		-		
ENSMMUG00000004412	arginine and serine rich coiled-coil 2 [Source:VGNC Symbol;Acc:VGNC:77139]	2.856529689	0.000271475	0.001449294
		-		
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	1.692743163	1.49E-11	3.60E-10
ENSMMUG00000015926	2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]	1.163314176	1.37E-07	1.61E-06
ENSMMUG00000015930	ADP ribosylation factor like GTPase 6 interacting protein 4 [Source:VGNC Symbol;Acc:VGNC:69860]	1.121627702	0.006210658	0.021573319
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	1.15130932	2.24E-07	2.52E-06
ENSMMUG00000031495	chromosome 11 C12orf65 homolog [Source:NCBI gene;Acc:708974]	-2.02724584	0.000222612	0.001216128
		-		
ENSMMUG00000000434	cyclin dependent kinase 2 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:70944]	1.292053723	0.000198337	0.001097119
		-		
ENSMMUG00000013514	lysine methyltransferase 5A [Source:VGNC Symbol;Acc:VGNC:74159]	0.414563915	0.009506389	0.03108985
ENSMMUG00000023048	cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]	1.692464184	1.95E-06	1.75E-05
		-		
ENSMMUG00000058836	transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]	0.788927625	8.52E-05	0.000518474
ENSMMUG00000064225	tectonic family member 2 [Source:NCBI gene;Acc:721415]	0.416528647	0.001742176	0.007319657
		-		
ENSMMUG00000006546	ATPase H+ transporting V0 subunit a2 [Source:VGNC Symbol;Acc:VGNC:70096]	0.383666472	0.000212642	0.001168688
ENSMMUG00000006861	dynein axonemal heavy chain 10 [Source:NCBI gene;Acc:710343]	-0.61144685	7.86E-06	6.14E-05
		-		
ENSMMUG00000020804	transmembrane protein 132B [Source:NCBI gene;Acc:707118]	1.206732386	8.54E-05	0.00051901
		-		
ENSMMUG00000050145	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.962174872	0.006953254	0.023766625
		-		
ENSMMUG00000020926	syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]	3.157393883	2.55E-06	2.22E-05
		-		
ENSMMUG00000058674		2.958120997	0.012432767	0.038801016
ENSMMUG00000017026	fibrosin like 1 [Source:NCBI gene;Acc:696295]	0.441292083	0.01349562	0.041512024
		-		
ENSMMUG00000015463	DNA polymerase epsilon, catalytic subunit [Source:NCBI gene;Acc:698023]	0.511364707	0.000618864	0.002979937
ENSMMUG00000031451	golgin A3 [Source:VGNC Symbol;Acc:VGNC:73106]	1.269514297	0.003074503	0.011872646
ENSMMUG00000015468	checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]	3.194487228	1.75E-10	3.53E-09
		-		
ENSMMUG00000021159	tubulin alpha 3e [Source:NCBI gene;Acc:718034]	0.770301493	0.003715607	0.013964265
ENSMMUG00000049232	AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]	7.622445102	1.67E-10	3.36E-09
ENSMMUG00000001989	RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]	8.421997491	5.42E-14	1.94E-12
ENSMMUG00000027543	Y RNA [Source:RFAM;Acc:RF00019]	8.236239924	2.35E-13	7.45E-12
ENSMMUG00000004177	myosin VIIB [Source:NCBI gene;Acc:714563]	0.315916587	0.001248995	0.005482076
ENSMMUG00000056151		1.939099613	0.000454863	0.002281692
ENSMMUG00000000376	bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]	2.248673543	0.000363565	0.001862949
		-		
ENSMMUG00000020928	nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]	0.861238721	1.59E-05	0.000115972
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	1.629970128	2.59E-10	5.03E-09
ENSMMUG00000059182		1.988051552	1.05E-13	3.57E-12
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	1.790442475	4.43E-14	1.64E-12
ENSMMUG00000059504		2.448970386	8.99E-10	1.59E-08

ENSMMUG0000005610	protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]	0.833453334	0.000486908	0.002414414
ENSMMUG00000011129	cilia and flagella associated protein 221 [Source:VGNC Symbol;Acc:VGNC:71153]	2.428864388	0.007771943	0.026183253
ENSMMUG00000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]	1.056913779	3.48E-09	5.52E-08
ENSMMUG00000043114	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.652269201	0.002464368	0.009841901
ENSMMUG00000017486	minichromosome maintenance complex component 6 [Source:VGNC Symbol;Acc:VGNC:74685]	0.886783717	0.000141628	0.000815061
ENSMMUG00000040854	aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]	0.725578744	0.00014723	0.000843629
ENSMMUG00000061455		2.535258781	0.001393976	0.006029225
ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.748648657	1.46E-11	3.53E-10
ENSMMUG00000016845	zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]	1.845074604	0.004645505	0.016840823
ENSMMUG00000051691		1.069132703	0.000504476	0.002491869
ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	0.930970025	5.75E-12	1.50E-10
ENSMMUG00000010521	ADP ribosylation factor like GTPase 5A [Source:VGNC Symbol;Acc:VGNC:70017]	2.380017382	6.37E-06	5.08E-05
ENSMMUG00000010526	calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]	1.651980382	4.86E-10	9.13E-09
ENSMMUG00000010527	signal transducing adaptor molecule 2 [Source:VGNC Symbol;Acc:VGNC:77903]	0.204375047	0.012591585	0.039178911
ENSMMUG00000014176	cytohesin 1 interacting protein [Source:VGNC Symbol;Acc:VGNC:71831]	-0.65867069	0.016078344	0.047905489
ENSMMUG00000011637	coiled-coil domain containing 148 [Source:VGNC Symbol;Acc:VGNC:70856]	2.09836023	0.000709039	0.003356331
ENSMMUG00000011638	plakophilin 4 [Source:VGNC Symbol;Acc:VGNC:76153]	1.577042946	0.01053203	0.033790361
ENSMMUG00000006443		2.406519826	0.016792861	0.049688137
ENSMMUG00000052818	death associated protein like 1 [Source:NCBI gene;Acc:699071]	2.080258866	0.004332745	0.015887207
ENSMMUG00000057379		-1.25130618	0.000475993	0.002368884
ENSMMUG00000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	1.495530327	5.12E-12	1.35E-10
ENSMMUG00000061606	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.575041749	0.000247215	0.001332012
ENSMMUG00000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	1.151988082	4.95E-07	5.15E-06
ENSMMUG00000063868	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.424118741	0.000160628	0.000909995
ENSMMUG00000006182	bromodomain adjacent to zinc finger domain 2B [Source:NCBI gene;Acc:702780]	0.624272268	0.000255683	0.001371032
ENSMMUG00000051450	phospholipase A2 receptor 1 [Source:NCBI gene;Acc:700191]	0.545000376	5.90E-05	0.000374474
ENSMMUG00000002678	integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]	1.273441378	1.81E-06	1.64E-05
ENSMMUG00000038083	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.686535532	0.016883599	0.049835826
ENSMMUG00000055970		0.764430216	6.36E-06	5.08E-05
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	2.926999851	7.35E-27	1.16E-24
ENSMMUG00000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	1.771116267	2.74E-09	4.41E-08
ENSMMUG00000013251	xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]	3.211812981	4.75E-07	4.96E-06
ENSMMUG00000063463		0.957232915	0.004723367	0.01709325
ENSMMUG00000021775	beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]	-1.20135616	0.000175333	0.000983339
ENSMMUG00000006215	serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]	0.933777712	1.41E-05	0.000104563
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	2.31963463	1.08E-12	3.12E-11
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	2.225866865	1.36E-07	1.60E-06
ENSMMUG00000020510	kelch like family member 41 [Source:VGNC Symbol;Acc:VGNC:74062]	0.684674535	9.64E-05	0.000577477
ENSMMUG00000023051	kelch like family member 23 [Source:NCBI gene;Acc:706609]	0.416031764	0.000106883	0.000633154
ENSMMUG00000015198	glutamate decarboxylase 1 [Source:VGNC Symbol;Acc:VGNC:72862]	0.789119718	0.000742886	0.00349493

ENSMMUG00000015203	golgi reassembly stacking protein 2 [Source:VGNC Symbol;Acc:VGNC:72957]	-	0.777677253	9.98E-05	0.000594796
ENSMMUG00000011189	tousled like kinase 1 [Source:VGNC Symbol;Acc:VGNC:78367]	-	0.822420719	7.60E-05	0.000468558
ENSMMUG00000054176	methyltransferase like 8 [Source:NCBI gene;Acc:695361]	-	0.927788075	0.00028894	0.001526834
ENSMMUG00000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	-	1.153633664	1.79E-05	0.000128579
ENSMMUG00000007301	dynein cytoplasmic 1 intermediate chain 2 [Source:VGNC Symbol;Acc:VGNC:71953]	-	0.411437736	0.016428268	0.048808038
ENSMMUG00000007310	solute carrier family 25 member 12 [Source:VGNC Symbol;Acc:VGNC:77430]	-	0.678993853	0.00013582	0.000785368
ENSMMUG00000007313	histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]	-	2.142693008	1.04E-09	1.80E-08
ENSMMUG00000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	-	0.956501655	4.74E-07	4.96E-06
ENSMMUG00000054462		-	0.969031705	3.92E-06	3.29E-05
ENSMMUG00000061038		-	1.318326063	0.010753859	0.03441093
ENSMMUG00000020792	Rap guanine nucleotide exchange factor 4 [Source:VGNC Symbol;Acc:VGNC:76490]	-	1.141596556	0.000117248	0.000688106
ENSMMUG00000014672	mitogen-activated protein kinase kinase kinase 20 [Source:NCBI gene;Acc:698274]	-	1.348056665	0.001337463	0.005810728
ENSMMUG00000049482		-	0.571908709	0.014607168	0.044321519
ENSMMUG00000007092	Obg like ATPase 1 [Source:NCBI gene;Acc:697309]	-	0.781239986	0.006828697	0.023384868
ENSMMUG00000021012	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	-	0.605631474	2.75E-07	3.03E-06
ENSMMUG00000053004		-	0.739990442	7.06E-05	0.000438315
ENSMMUG00000009593	WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]	-	1.3914573	1.53E-11	3.68E-10
ENSMMUG00000065344	homeobox D1 [Source:NCBI gene;Acc:701064]	-	0.548305969	0.005134102	0.018369293
ENSMMUG00000008502	alkylglycerone phosphate synthase [Source:VGNC Symbol;Acc:VGNC:69747]	-	0.311254356	0.012948326	0.040091546
ENSMMUG00000002183	oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]	-	1.811583313	8.05E-15	3.28E-13
ENSMMUG00000002185	protein activator of interferon induced protein kinase EIF2AK2 [Source:VGNC Symbol;Acc:VGNC:76421]	-	0.489660963	0.000231105	0.001254511
ENSMMUG00000054264	pejvakin [Source:NCBI gene;Acc:708668]	-	0.474170049	0.004993305	0.0179406
ENSMMUG00000009038	titin [Source:NCBI gene;Acc:703527]	-	1.576783889	0.000106813	0.000632995
ENSMMUG00000019690	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	-	2.543724372	3.35E-10	6.47E-09
ENSMMUG00000053406		-	3.418321069	0.000266242	0.001423971
ENSMMUG00000000300	integrin subunit alpha 4 [Source:VGNC Symbol;Acc:VGNC:73778]	-	0.370264498	0.016062416	0.047867844
ENSMMUG00000014277	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	-	1.452308214	1.47E-22	1.39E-20
ENSMMUG00000014394	DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]	-	1.044544892	1.39E-12	3.94E-11
ENSMMUG00000014397	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	-	2.831399289	4.41E-17	2.41E-15
ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]	-	0.941571963	9.59E-09	1.41E-07
ENSMMUG00000010405	family with sequence similarity 171 member B [Source:VGNC Symbol;Acc:VGNC:72404]	-	0.748864681	0.003680223	0.013856357
ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]	-	2.043864365	1.44E-15	6.64E-14
ENSMMUG00000014314	ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]	-	0.865453946	0.000525011	0.002581024

ENSMMUG00000014318	PMS1 homolog 1, mismatch repair system component [Source:VGNC Symbol;Acc:VGNC:81506]	2.037224664	0.002520049	0.010033951
ENSMMUG00000061305		-	-	-
ENSMMUG00000003260		1.103909087	0.000385967	0.001965946
ENSMMUG00000064089		-	-	-
ENSMMUG00000007283	3-hydroxyisobutyryl-CoA hydrolase [Source:NCBI gene;Acc:713951]	1.555270895	2.39E-12	6.59E-11
ENSMMUG00000051366		-	-	-
ENSMMUG00000005612	glutaminase [Source:NCBI gene;Acc:693520]	0.702239189	8.06E-05	0.000493581
ENSMMUG00000005613	signal transducer and activator of transcription 1 [Source:VGNC Symbol;Acc:VGNC:77904]	-	-	-
ENSMMUG00000001761	myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]	0.892948435	0.000443191	0.002229426
ENSMMUG000000037175	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.844570499	0.00262251	0.010351622
ENSMMUG00000001475	transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]	1.910337143	0.001214122	0.005348393
ENSMMUG00000061797	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	-	-
ENSMMUG00000061123	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.386884174	0.000244609	0.001319927
ENSMMUG00000057432	serine/threonine kinase 17b [Source:NCBI gene;Acc:696908]	1.572147254	2.08E-13	6.68E-12
ENSMMUG00000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	2.202566074	4.10E-09	6.37E-08
ENSMMUG00000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	2.085260726	0.000125067	0.000729279
ENSMMUG00000022430	splicing factor 3b subunit 1 [Source:VGNC Symbol;Acc:VGNC:77179]	1.268646839	0.000582295	0.002824433
ENSMMUG00000023809	raftlin family member 2 [Source:VGNC Symbol;Acc:VGNC:76837]	1.329603833	0.001645536	0.006976134
ENSMMUG00000023810	methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]	-	-	-
ENSMMUG00000023811	boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]	1.107564583	0.00036149	0.001854433
ENSMMUG00000051936		-	-	-
ENSMMUG00000050082		1.189407426	8.12E-14	2.81E-12
ENSMMUG00000047974	aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]	-	-	-
ENSMMUG00000022202	basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]	1.853593412	1.24E-18	8.11E-17
ENSMMUG00000053805	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-	-
ENSMMUG00000012310	CASP8 and FADD like apoptosis regulator [Source:VGNC Symbol;Acc:VGNC:71019]	1.234448341	0.006278799	0.021778787
ENSMMUG00000031296	caspace 8 [Source:VGNC Symbol;Acc:VGNC:70547]	-	-	-
ENSMMUG00000018356	flagellum associated containing coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:72508]	1.130001827	0.010602043	0.033977492
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	0.690567446	0.000361523	0.001854433
ENSMMUG00000018151	membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]	-	-	-
ENSMMUG00000000582	NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]	0.807670125	0.001611037	0.006846052
ENSMMUG00000061021		-	-	-
ENSMMUG00000059518		2.124925984	1.38E-06	1.29E-05
		-	-	-
		0.649671525	0.006579564	0.022649094
		-	-	-
		0.786836055	1.08E-08	1.57E-07
		-	-	-
		1.224347806	1.45E-09	2.47E-08
		-	-	-
		2.346344218	0.00267814	0.01051367
		-1.5563289	0.009263203	0.030445213
		-	-	-
		0.854296267	5.50E-05	0.000352857
		-	-	-
		1.238799554	0.003275141	0.012555571
		1.665172264	5.49E-18	3.31E-16
		2.781806033	3.26E-06	2.78E-05
		1.0368739	2.86E-06	2.47E-05
		0.891897905	0.000286653	0.001518616
		-1.55533517	0.011930488	0.037458641

ENSMMUG00000056824		-	2.661258889	6.18E-06	4.96E-05
ENSMMUG00000022601	cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]	-	0.984475936	5.56E-05	0.000356019
ENSMMUG00000022602	methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]	-	1.278245028	4.62E-06	3.80E-05
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	-	1.418138023	3.96E-10	7.55E-09
ENSMMUG00000057651	frizzled class receptor 5 [Source:NCBI gene;Acc:710796]	-	2.018529348	0.000312709	0.001631674
ENSMMUG00000008113	pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]	-	1.382491971	0.000143663	0.00082612
ENSMMUG00000010871	crystallin gamma B [Source:VGNC Symbol;Acc:VGNC:71507]	-	-3.55626619	0.001543525	0.006583984
ENSMMUG00000014299	chromosome 12 C2orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70459]	-	4.183221927	2.92E-05	0.000199874
ENSMMUG00000016077	isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]	-	2.324197006	3.20E-06	2.73E-05
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	-	2.170618411	4.06E-07	4.29E-06
ENSMMUG00000005295	parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]	-	-2.29399058	0.001014672	0.004580834
ENSMMUG00000002809	unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]	-	1.509019161	1.63E-05	0.000118335
ENSMMUG00000010508	carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]	-	3.634018809	6.19E-08	7.73E-07
ENSMMUG00000059604		-	0.43795643	0.009575395	0.031267092
ENSMMUG00000061342		-	1.303034998	1.62E-08	2.25E-07
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	-	0.762646589	2.50E-15	1.11E-13
ENSMMUG00000000382	sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]	-	0.958665485	1.25E-05	9.36E-05
ENSMMUG00000064880		-	0.917102724	2.85E-06	2.46E-05
ENSMMUG00000053721		-	1.716967091	5.55E-08	7.01E-07
ENSMMUG00000006755	tubulin tyrosine ligase like 4 [Source:VGNC Symbol;Acc:VGNC:79758]	-	0.668784122	0.001862615	0.007751743
ENSMMUG00000006758	cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]	-	1.280918543	0.011751717	0.036969207
ENSMMUG00000021877	protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]	-	1.363970785	0.01376412	0.042212873
ENSMMUG00000052954	Wnt family member 6 [Source:NCBI gene;Acc:700573]	-	1.745654554	0.003631657	0.013712573
ENSMMUG00000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	-	0.914729368	2.39E-11	5.54E-10
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	-	0.996804091	1.94E-07	2.21E-06
ENSMMUG00000061834		-	1.073133958	7.07E-10	1.28E-08
ENSMMUG00000046282		-	1.084327504	9.49E-16	4.51E-14
ENSMMUG00000051349		-	3.536865572	0.002037366	0.008404425
ENSMMUG00000058085	coiled-coil domain containing 195 [Source:HGNC Symbol;Acc:HGNC:53441]	-	2.829401499	0.00404976	0.014991434
ENSMMUG00000018139	dedicator of cytokinesis 10 [Source:VGNC Symbol;Acc:VGNC:71888]	-	0.510811654	2.93E-08	3.88E-07
ENSMMUG00000051482		-	2.066833361	5.81E-07	5.95E-06
ENSMMUG00000054072		-	1.472269049	1.46E-16	7.48E-15
ENSMMUG00000045544	neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]	-	1.259022307	9.49E-12	2.37E-10
ENSMMUG00000000722	rhomoid domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76803]	-	0.550611605	0.013011278	0.04026075

ENSMMUG00000013233	collagen type IV alpha 4 chain [Source:VGNC Symbol;Acc:VGNC:71299]	0.652418545	0.014797757	0.044796957
ENSMMUG00000013235	collagen type IV alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:81375]	0.829205747	5.20E-05	0.000335469
ENSMMUG00000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	1.455733035	1.80E-08	2.49E-07
ENSMMUG00000011777	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:82108]	1.909159441	0.009442137	0.030924165
ENSMMUG00000015167	DIS3 like 3'-5' exoribonuclease 2 [Source:VGNC Symbol;Acc:VGNC:71793]	1.737934787	0.000244859	0.001320786
ENSMMUG00000016871	alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]	2.369142563	4.51E-06	3.73E-05
ENSMMUG00000051779		0.575897156	0.001997055	0.008259227
ENSMMUG00000005650	ubiquitin specific peptidase 40 [Source:VGNC Symbol;Acc:VGNC:79226]	0.339408792	0.003836977	0.01434623
ENSMMUG00000021216	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]	0.696989032	8.38E-05	0.000510719
ENSMMUG00000051807		1.208821358	4.68E-05	0.00030642
ENSMMUG00000061244		1.057042006	0.007823731	0.026308946
ENSMMUG00000054449	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.368016819	0.000749093	0.003520713
ENSMMUG00000009346	ArfGAP with GTPase domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:84206]	0.921022384	0.001657387	0.00702023
ENSMMUG00000017404	IQ motif containing with AAA domain 1 [Source:VGNC Symbol;Acc:VGNC:73660]	2.555818718	0.002522389	0.010037782
ENSMMUG00000060487	atypical chemokine receptor 3 [Source:NCBI gene;Acc:694428]	1.186390513	0.000516652	0.002545957
ENSMMUG00000014049	collagen type VI alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:71303]	1.066227313	0.001769947	0.007425605
ENSMMUG00000059353	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]	0.676270416	6.48E-05	0.000406251
ENSMMUG00000056711	ribonuclease inhibitor-like [Source:NCBI gene;Acc:114672186]	0.644238937	6.32E-07	6.38E-06
ENSMMUG00000062863		1.904072415	2.42E-11	5.59E-10
ENSMMUG00000004622	NLR family pyrin domain containing 6 [Source:VGNC Symbol;Acc:VGNC:75234]	-1.80320663	0.00219102	0.008934323
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	3.487411138	5.12E-43	5.32E-40
ENSMMUG00000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	3.734098882	1.64E-21	1.44E-19
ENSMMUG00000010782	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:114669774]	0.580594487	0.002807719	0.010980847
ENSMMUG00000010783	ribonuclease inhibitor [Source:NCBI gene;Acc:720791]	0.597138573	0.000264579	0.001416641
ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	1.450852425	9.26E-10	1.63E-08
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	1.510142288	6.89E-18	4.07E-16
ENSMMUG00000054421	Ras association domain family member 7 [Source:NCBI gene;Acc:699206]	-0.31565698	0.005576375	0.019757192
ENSMMUG00000004024	cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]	1.23527763	5.36E-06	4.36E-05
ENSMMUG00000016715	p53-induced death domain protein 1 [Source:VGNC Symbol;Acc:VGNC:81498]	0.605488898	8.50E-06	6.58E-05
ENSMMUG00000043846		0.502514888	0.001475089	0.006325479
ENSMMUG00000010544	mucin 5B, oligomeric mucus/gel-forming [Source:VGNC Symbol;Acc:VGNC:75081]	0.604708395	4.54E-07	4.79E-06
ENSMMUG00000017450	MOB kinase activator 2 [Source:NCBI gene;Acc:720951]	1.414408004	0.000594161	0.002874314
ENSMMUG00000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	3.402379356	5.86E-18	3.52E-16
ENSMMUG00000003912	tyrosine hydroxylase [Source:VGNC Symbol;Acc:VGNC:78342]	0.296011582	0.014595219	0.044294509
ENSMMUG00000007742	potassium voltage-gated channel subfamily Q member 1 [Source:VGNC Symbol;Acc:VGNC:82168]	0.898565698	0.000190012	0.001057102
ENSMMUG00000051131	MAS related GPR family member G [Source:NCBI gene;Acc:721253]	0.782975291	0.000496629	0.002456445
ENSMMUG00000052168		3.703915065	3.46E-42	3.36E-39
ENSMMUG00000060517		1.664651616	6.94E-09	1.05E-07
ENSMMUG00000001777	testis expressed metallothionein like protein [Source:VGNC Symbol;Acc:VGNC:79965]	0.483188213	0.005099348	0.018271931

ENSMMUG00000014237	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	2.126806767	1.86E-39	1.25E-36
ENSMMUG00000056342	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.78786517	0.000519496	0.002556504
ENSMMUG00000023192	choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]	2.118118382	8.74E-13	2.58E-11
ENSMMUG00000023188	aldehyde dehydrogenase 3 family member B1 [Source:VGNC Symbol;Acc:VGNC:69789]	0.498053551	0.008068679	0.027020131
		-		
ENSMMUG00000056105	T-box transcription factor 10 [Source:NCBI gene;Acc:721689]	0.655741917	1.17E-05	8.83E-05
		-		
ENSMMUG00000042611	nudix hydrolase 8 [Source:NCBI gene;Acc:721695]	2.659419723	0.011086828	0.03527551
		-		
ENSMMUG00000011821	phosphatidylinositol transfer protein membrane associated 1 [Source:VGNC Symbol;Acc:VGNC:76007]	1.336816371	0.014406753	0.043817065
ENSMMUG00000011817	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	1.091780158	7.27E-10	1.31E-08
ENSMMUG00000053378		0.970233956	1.61E-05	0.000117074
ENSMMUG00000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.637569323	9.46E-14	3.25E-12
ENSMMUG00000005486	protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]	0.901410671	8.05E-06	6.27E-05
ENSMMUG00000005483	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	0.970127836	2.66E-09	4.31E-08
ENSMMUG00000005480	carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	0.760288234	5.40E-18	3.27E-16
ENSMMUG00000017280	TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]	1.145185916	2.33E-05	0.00016349
ENSMMUG00000004523	DNA polymerase delta 4, accessory subunit [Source:NCBI gene;Acc:712632]	0.729631418	0.003456692	0.013133802
ENSMMUG00000015928	ankyrin repeat domain 13D [Source:VGNC Symbol;Acc:VGNC:69722]	1.045345304	0.004037659	0.014958067
ENSMMUG00000015925	G protein-coupled receptor kinase 2 [Source:VGNC Symbol;Acc:VGNC:73253]	0.874234467	3.91E-06	3.29E-05
ENSMMUG00000008771	lysine demethylase 2A [Source:VGNC Symbol;Acc:VGNC:73824]	0.672319855	8.77E-07	8.53E-06
		-		
ENSMMUG00000004529	chromosome 14 C11orf80 homolog [Source:NCBI gene;Acc:721782]	0.409728755	0.000706853	0.003348166
		-		
ENSMMUG00000062635		0.603090573	0.000139603	0.000804046
ENSMMUG00000010577	RNA-binding protein 4B [Source:NCBI gene;Acc:713553]	0.415209102	0.014463973	0.04394117
ENSMMUG00000031207	Bardet-Biedl syndrome 1 [Source:NCBI gene;Acc:720059]	-1.0325822	0.012053296	0.037778949
		-		
ENSMMUG00000015987	Ras and Rab interactor 1 [Source:VGNC Symbol;Acc:VGNC:76769]	0.722847429	0.000111003	0.000654094
		-		
ENSMMUG00000006950	cornichon family AMPA receptor auxiliary protein 2 [Source:VGNC Symbol;Acc:VGNC:71366]	1.147722703	0.001798301	0.007533687
		-		
ENSMMUG00000031202	RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]	0.974495527	3.44E-05	0.000232412
		-		
ENSMMUG00000022520	kinesin light chain 2 [Source:VGNC Symbol;Acc:VGNC:73869]	0.917079528	0.000148043	0.000847287
ENSMMUG00000057179	cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]	3.204814012	2.69E-14	1.03E-12
ENSMMUG00000056794	cystatin E/M [Source:NCBI gene;Acc:714999]	3.724856401	0.000310381	0.001622442
ENSMMUG00000019115	eukaryotic translation initiation factor 1A domain containing [Source:VGNC Symbol;Acc:VGNC:72127]	0.667401259	0.000222973	0.001217638
		-		
ENSMMUG00000008065	spliceosome associated factor 1, recruiter of U4/U6.U5 tri-snRNP [Source:VGNC Symbol;Acc:VGNC:76972]	0.378733294	0.006398221	0.022139313
ENSMMUG00000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]	1.05934385	6.94E-08	8.59E-07
ENSMMUG00000008651	FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]	1.118280736	7.54E-07	7.46E-06
ENSMMUG00000038363	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]	1.368613694	5.82E-19	3.99E-17
ENSMMUG00000050028		1.182101232	1.82E-10	3.66E-09
ENSMMUG00000064005		0.955426931	0.000993732	0.004504485
ENSMMUG00000060437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.475145255	0.00019583	0.001084486
ENSMMUG00000019837	ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]	1.014929868	1.58E-07	1.85E-06
ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]	1.205723458	8.32E-15	3.37E-13
ENSMMUG00000061174		0.586682377	0.00450824	0.016404576
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]	2.193855876	9.83E-19	6.52E-17
ENSMMUG00000023477		1.957510032	1.49E-38	8.34E-36
ENSMMUG00000052424		0.574365629	0.001712464	0.007226151
ENSMMUG00000023300	FERM domain containing 8 [Source:NCBI gene;Acc:716379]	1.081383335	0.000451142	0.002266355

ENSMMUG00000056343		0.912069276	0.000876414	0.004047149
ENSMMUG00000012316	CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]	2.075217915	0.003432978	0.013066063
ENSMMUG00000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]	1.005747679	8.29E-07	8.12E-06
ENSMMUG00000018767	cell division cycle associated 5 [Source:NCBI gene;Acc:721998]	4.063113816	5.76E-07	5.90E-06
ENSMMUG00000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]	1.128910538	2.76E-06	2.39E-05
ENSMMUG00000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]	1.469845226	4.26E-26	6.01E-24
ENSMMUG00000003976	glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]	1.229425617	4.36E-10	8.22E-09
ENSMMUG00000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]	1.491616087	5.82E-31	1.34E-28
		-		
ENSMMUG00000003973	autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]	1.463695868	1.12E-06	1.07E-05
ENSMMUG00000003972	EH domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72175]	0.689243993	5.41E-05	0.000348157
ENSMMUG000000031160	menin 1 [Source:NCBI gene;Acc:106995582]	0.285573235	0.009922683	0.03222655
ENSMMUG000000030597	mitogen-activated protein kinase kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81465]	0.372408365	0.000306769	0.001607025
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]	0.998123799	1.72E-19	1.23E-17
ENSMMUG00000007603	coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]	1.208963856	3.38E-07	3.65E-06
ENSMMUG00000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	0.962861704	1.09E-10	2.27E-09
		-		
ENSMMUG00000019647	tRNA methyltransferase subunit 11-2 [Source:NCBI gene;Acc:717676]	2.099950532	0.01692259	0.04991958
ENSMMUG00000060596	BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]	1.031555532	3.61E-08	4.71E-07
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	1.957994937	4.43E-24	4.72E-22
ENSMMUG00000012942	DnaJ heat shock protein family (Hsp40) member C4 [Source:NCBI gene;Acc:717847]	0.931735429	0.006120284	0.021289917
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	2.026982535	4.57E-27	7.39E-25
		-		
ENSMMUG00000012939	fermitin family member 3 [Source:VGNC Symbol;Acc:VGNC:72553]	0.806839901	1.33E-06	1.25E-05
		-		
ENSMMUG00000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]	1.109911248	3.36E-11	7.62E-10
		-		
ENSMMUG00000056349		2.791568692	0.000900086	0.004138061
ENSMMUG00000000478	OTU deubiquitinase, ubiquitin aldehyde binding 1 [Source:NCBI gene;Acc:717989]	0.727556181	4.60E-06	3.80E-05
ENSMMUG000000052569		3.818200613	4.26E-15	1.82E-13
ENSMMUG00000014131	microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]	0.925260812	0.000284797	0.001511236
ENSMMUG00000005776	atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]	0.496474464	0.000784154	0.003659469
ENSMMUG00000005775	phospholipase A and acyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:76055]	0.533204674	2.65E-10	5.14E-09
		-		
ENSMMUG00000045105	phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]	0.845189727	0.000552143	0.002696174
		-		
ENSMMUG00000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	0.816122602	1.67E-07	1.94E-06
		-		
ENSMMUG00000006598	eukaryotic translation elongation factor 1 gamma [Source:NCBI gene;Acc:722274]	0.221925119	0.01512729	0.045576252
		-		
ENSMMUG000000031123	secretoglobin family 1A member 1 [Source:VGNC Symbol;Acc:VGNC:77004]	0.667118103	1.90E-05	0.00013573
		-		
ENSMMUG00000049661	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.804040582	0.000853908	0.003955786
ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.526906578	2.40E-10	4.70E-09
ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	3.305671541	9.85E-22	8.90E-20
ENSMMUG00000006655	myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]	3.38000366	2.24E-10	4.40E-09
ENSMMUG00000015280	cleavage and polyadenylation specific factor 7 [Source:VGNC Symbol;Acc:VGNC:71606]	2.100237297	0.002633468	0.010383164
ENSMMUG00000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	-1.18596722	3.00E-09	4.79E-08
ENSMMUG00000015019	VPS37C subunit of ESCRT-I [Source:VGNC Symbol;Acc:VGNC:79578]	2.630322278	0.011736469	0.036929231
		-		
ENSMMUG00000044417	CD6 molecule [Source:NCBI gene;Acc:695183]	1.672353639	0.004982223	0.017914067
		-		
ENSMMUG00000014531	transmembrane protein 109 [Source:VGNC Symbol;Acc:VGNC:79740]	0.908145181	0.004212034	0.015501313

ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	1.776745182	1.15E-21	1.03E-19
ENSMMUG00000000019	coiled-coil domain containing 86 [Source:VGNC Symbol;Acc:VGNC:70893]	0.309714008	0.015239183	0.045862815
ENSMMUG000000031100	membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]	2.886148485	1.01E-09	1.75E-08
ENSMMUG00000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	3.641487829	5.16E-11	1.13E-09
ENSMMUG00000020177	membrane spanning 4-domains A4A [Source:NCBI gene;Acc:698027]	1.692095617	0.000702287	0.003333052
ENSMMUG000000061603		3.444348903	0.002043156	0.008418751
ENSMMUG000000059299	membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]	1.771704454	0.001229921	0.005408153
ENSMMUG000000053140	putative oocyte-secreted protein 1 homolog [Source:NCBI gene;Acc:698403]	1.932286762	0.008318316	0.027741076
ENSMMUG000000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	1.933047854	5.43E-05	0.000349031
ENSMMUG00000001745	oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]	1.508288198	4.51E-13	1.38E-11
ENSMMUG000000060712		1.401881458	5.23E-14	1.88E-12
ENSMMUG000000045775	macrophage expressed 1 [Source:NCBI gene;Acc:700274]	1.643609504	0.014753272	0.04469021
ENSMMUG00000001083	glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]	1.004539946	9.61E-11	2.02E-09
ENSMMUG000000011713	leupaxin [Source:VGNC Symbol;Acc:VGNC:74286]	0.319890253	6.80E-05	0.000423775
ENSMMUG000000011712	olfactory receptor 5B21 [Source:NCBI gene;Acc:702145]	0.848838057	0.003407545	0.012987804
ENSMMUG000000054737		0.521485178	7.39E-06	5.82E-05
ENSMMUG000000050844	BTB domain containing 18 [Source:NCBI gene;Acc:703264]	2.006506974	7.79E-07	7.66E-06
ENSMMUG000000056184		2.897632343	1.63E-06	1.49E-05
ENSMMUG000000002566	selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]	2.044399145	0.015334294	0.046113908
ENSMMUG000000040741	thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]	1.978202118	4.45E-12	1.18E-10
ENSMMUG000000002562	mediator complex subunit 19 [Source:VGNC Symbol;Acc:VGNC:74615]	2.189182868	0.000173377	0.000973121
ENSMMUG000000002563	zinc finger DHHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]	2.034638297	2.56E-06	2.23E-05
ENSMMUG000000058453	cleavage factor polyribonucleotide kinase subunit 1 [Source:NCBI gene;Acc:705071]	0.631585372	0.009382913	0.030769683
ENSMMUG000000010982	reticulon 4 receptor like 2 [Source:VGNC Symbol;Acc:VGNC:82229]	0.759614977	1.28E-05	9.61E-05
ENSMMUG000000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.545131908	1.17E-11	2.88E-10
ENSMMUG000000010627	apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]	-1.25717363	9.26E-10	1.63E-08
ENSMMUG000000010869	nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]	1.035543829	0.008958715	0.029591648
ENSMMUG000000040099	Y RNA [Source:RFAM;Acc:RF00019]	1.548866214	0.002474845	0.009878315
ENSMMUG000000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	1.311173062	2.06E-09	3.40E-08
ENSMMUG000000012881	ATP/GTP binding protein like 2 [Source:NCBI gene;Acc:711126]	2.743079923	0.003458392	0.013136829
ENSMMUG000000043682	mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]	3.090667728	5.74E-06	4.64E-05
ENSMMUG000000004286	protein tyrosine phosphatase mitochondrial 1 [Source:NCBI gene;Acc:713104]	1.540814726	0.000272343	0.001453398
ENSMMUG000000015606	Spi-1 proto-oncogene [Source:NCBI gene;Acc:712010]	1.088336689	0.001283826	0.005609552
ENSMMUG000000015604	myosin binding protein C3 [Source:VGNC Symbol;Acc:VGNC:75094]	0.644229454	0.000766708	0.003591891
ENSMMUG000000022964		0.387731953	7.27E-06	5.74E-05
ENSMMUG000000060750	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.040041168	0.002382335	0.009551906
ENSMMUG000000003631	cytoskeleton associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71368]	1.153328536	0.012170245	0.038088021
ENSMMUG000000019674	coagulation factor II, thrombin [Source:VGNC Symbol;Acc:VGNC:72464]	1.448360378	0.008480385	0.028216837
ENSMMUG000000021446	diacylglycerol kinase zeta [Source:VGNC Symbol;Acc:VGNC:71789]	0.884605693	9.36E-10	1.64E-08
ENSMMUG000000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	1.023034999	5.62E-08	7.08E-07

ENSMMUG00000049305	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.220129352	7.57E-05	0.000467389
ENSMMUG00000047219		0.794809961	0.00107391	0.004805757
ENSMMUG00000000874	carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]	0.827557072	6.54E-05	0.000409309
ENSMMUG00000050952		-	-	-
ENSMMUG00000059728	tumor protein p53 inducible protein 11 [Source:NCBI gene;Acc:715295]	1.690102879	5.88E-06	4.74E-05
ENSMMUG00000000368	tetraspanin 18 [Source:VGNC Symbol;Acc:VGNC:79265]	2.043572333	5.97E-05	0.00037812
ENSMMUG00000008827	apoptosis inhibitor 5 [Source:NCBI gene;Acc:716346]	-	-	-
ENSMMUG00000007093	low density lipoprotein receptor class A domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74137]	2.340760791	0.00533567	0.018996971
ENSMMUG00000051583		-	-	-
ENSMMUG00000054427	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.801409318	0.003132928	0.012067668
ENSMMUG00000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	0.779659124	0.012576626	0.039149124
ENSMMUG00000004330	peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]	0.927190047	4.17E-05	0.000276525
ENSMMUG00000004329	solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]	1.352448971	0.000342175	0.001766405
ENSMMUG00000005927	ETS homologous factor [Source:VGNC Symbol;Acc:VGNC:72178]	2.632968495	4.71E-09	7.26E-08
ENSMMUG00000002429	catalase [Source:VGNC Symbol;Acc:VGNC:70552]	3.498080598	3.41E-08	4.47E-07
ENSMMUG00000055602	CD59 molecule (CD59 blood group) [Source:NCBI gene;Acc:693402]	-	-	-
ENSMMUG00000017218	KIAA1549 like [Source:VGNC Symbol;Acc:VGNC:73902]	0.618633524	0.000150362	0.00085853
ENSMMUG00000019988	homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]	-	-	-
ENSMMUG0000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	3.481984862	0.000467212	0.002332871
ENSMMUG00000055352		-	-	-
ENSMMUG00000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	0.641176986	8.30E-06	6.44E-05
ENSMMUG00000065337		-0.7527669	0.000695047	0.003301927
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	-	-	-
ENSMMUG00000023119	lin-7 homolog C, crumbs cell polarity complex component [Source:VGNC Symbol;Acc:VGNC:74070]	0.441433661	0.010076229	0.032623194
ENSMMUG00000014615	lactate dehydrogenase C [Source:VGNC Symbol;Acc:VGNC:74247]	0.878065032	0.000171622	0.000964758
ENSMMUG00000031024	lactate dehydrogenase A [Source:NCBI gene;Acc:694309]	0.999095227	1.18E-16	6.10E-15
ENSMMUG00000006405	secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]	1.189464473	4.90E-23	4.72E-21
ENSMMUG00000006403	potassium voltage-gated channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:73971]	0.989884036	6.22E-10	1.14E-08
ENSMMUG00000005895	nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]	-	-	-
ENSMMUG00000064558		0.548240602	6.05E-05	0.000382449
ENSMMUG00000022548	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:VGNC Symbol;Acc:VGNC:75992]	-	-	-
ENSMMUG00000017628	pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]	0.965153751	1.14E-12	3.28E-11
ENSMMUG00000060216		-1.94680431	0.000325321	0.00169202
ENSMMUG00000055212		0.892404663	0.0020208	0.008340819
ENSMMUG00000021914	spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]	0.978955563	4.17E-06	3.47E-05
ENSMMUG00000054213	parathyroid hormone [Source:NCBI gene;Acc:700195]	0.719312233	0.013220717	0.040787259
		0.554777143	0.000284821	0.001511236
		-	-	-
		0.939190447	0.000136566	0.000788742
		-	-	-
		1.097507204	0.00013758	0.000793335
		-	-	-
		0.777371699	0.001743449	0.00732289
		-	-	-
		1.803953874	0.00054939	0.002683631
		-	-	-
		3.638589498	0.002888316	0.011259709
		-	-	-
		2.111199891	0.013011282	0.04026075
		-	-	-
		0.906374687	3.06E-07	3.34E-06
		-	-	-
		1.332881515	0.000544595	0.002662893

ENSMMUG0000009695	BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]	-	1.179916226	6.46E-06	5.14E-05
ENSMMUG00000010875	TEA domain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:78301]	-	0.338051459	0.000661763	0.003163449
ENSMMUG00000020956	parvin alpha [Source:VGNC Symbol;Acc:VGNC:75605]	-	0.511712861	0.015061766	0.045428141
ENSMMUG00000043504		-	0.878114777	2.42E-10	4.72E-09
ENSMMUG00000008758	zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]	-	1.518796564	6.95E-06	5.51E-05
ENSMMUG00000023636	importin 7 [Source:NCBI gene;Acc:704213]	-	1.30842639	1.32E-08	1.89E-07
ENSMMUG000000052166		-	1.072204015	0.007046333	0.024045198
ENSMMUG00000005639	transmembrane protein 41B [Source:VGNC Symbol;Acc:VGNC:79754]	-	1.115172036	7.97E-05	0.000489103
ENSMMUG000000058029	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	4.165375348	3.40E-05	0.000229924
ENSMMUG00000021142	DENN domain containing 5A [Source:VGNC Symbol;Acc:VGNC:71674]	-	0.756138215	0.001979052	0.008189433
ENSMMUG00000006692	signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]	-	1.126455086	3.26E-08	4.30E-07
ENSMMUG00000006689	nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]	-	1.326998249	5.13E-07	5.32E-06
ENSMMUG00000038288	TMEM9 domain family member B [Source:NCBI gene;Acc:708447]	-	0.867057309	1.18E-07	1.40E-06
ENSMMUG000000051468	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.962049805	2.17E-07	2.45E-06
ENSMMUG00000001995	chromosome 14 C11orf16 homolog [Source:NCBI gene;Acc:705319]	-	0.934442183	8.08E-06	6.28E-05
ENSMMUG00000001994	A-kinase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69600]	-	0.897019326	0.007987488	0.026760571
ENSMMUG00000018471	serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]	-	1.269702064	0.000527183	0.002589073
ENSMMUG000000035632	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	0.838945819	0.007726158	0.026061422
ENSMMUG000000050864		-	1.898958366	9.34E-13	2.73E-11
ENSMMUG000000041831	hemoglobin subunit epsilon 1 [Source:NCBI gene;Acc:715414]	-	0.739479468	0.012646626	0.039291302
ENSMMUG000000058081	olfactory receptor 52D1-like [Source:NCBI gene;Acc:106992372]	-	1.429541479	0.002626174	0.010360024
ENSMMUG000000049802	olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]	-	0.611265473	0.012230609	0.038244
ENSMMUG000000022682	tripartite motif containing 68 [Source:NCBI gene;Acc:717644]	-	0.373109455	0.004917937	0.017710112
ENSMMUG000000063820	olfactory receptor, family 52, subfamily M, member 1 [Source:NCBI gene;Acc:717723]	-	3.105705694	0.000384243	0.001958533
ENSMMUG00000004974	tripartite motif containing 21 [Source:VGNC Symbol;Acc:VGNC:78556]	-	1.058335123	6.62E-07	6.66E-06
ENSMMUG000000003962	ribonucleotide reductase catalytic subunit M1 [Source:VGNC Symbol;Acc:VGNC:76941]	-	0.739711398	0.009390311	0.030786413
ENSMMUG000000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]	-	1.416426962	2.91E-21	2.50E-19
ENSMMUG000000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]	-	1.207434744	5.58E-20	4.16E-18
ENSMMUG000000003948	ADP-ribosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70024]	-	1.073732388	0.009230909	0.030366535
ENSMMUG000000003946	ADP-ribosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:69890]	-	1.695484956	0.001401292	0.006054727
ENSMMUG000000007325	Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]	-	-1.8466389	6.93E-08	8.58E-07
ENSMMUG000000059115		-	2.001716813	1.39E-06	1.29E-05
ENSMMUG000000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]	-	2.224929212	1.20E-15	5.65E-14
ENSMMUG000000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]	-	1.651631094	9.86E-18	5.74E-16
ENSMMUG000000021280	leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]	-	1.921078712	3.70E-11	8.32E-10
ENSMMUG000000021282	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]	-	-1.75261594	6.80E-11	1.47E-09
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]	-	-1.81628791	6.72E-15	2.77E-13

ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]	1.993487666	2.50E-06	2.19E-05
ENSMMUG00000005423	caseinolytic mitochondrial matrix peptidase chaperone subunit B [Source:VGNC Symbol;Acc:VGNC:71375]	0.650731661	0.010464424	0.033625405
ENSMMUG00000015054	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:69844]	0.435248581	0.003534804	0.013378143
ENSMMUG00000001294	FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]	1.376253213	1.01E-07	1.21E-06
ENSMMUG00000003139	Rho guanine nucleotide exchange factor 17 [Source:VGNC Symbol;Acc:VGNC:69880]	0.550371996	0.004832797	0.017432847
ENSMMUG00000004791	pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]	1.647554856	2.46E-07	2.74E-06
ENSMMUG00000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]	1.214303207	3.51E-15	1.52E-13
ENSMMUG00000010321	C2 domain containing 3 centriole elongation regulator [Source:VGNC Symbol;Acc:VGNC:70375]	0.608117579	2.39E-05	0.000167858
ENSMMUG00000017402	phosphoglucomutase 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75839]	0.906246643	1.51E-06	1.40E-05
ENSMMUG000000056316		0.525315294	0.010304042	0.033234935
ENSMMUG00000013094	lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]	0.941185801	5.67E-11	1.23E-09
ENSMMUG00000013093	uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]	0.960598368	7.59E-11	1.62E-09
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	1.844769147	1.36E-12	3.87E-11
ENSMMUG00000009126	solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]	0.602035351	0.000248116	0.001336372
ENSMMUG00000047594		0.446892836	0.009081681	0.029970578
ENSMMUG00000017529	arrestin beta 1 [Source:VGNC Symbol;Acc:VGNC:70021]	0.634040289	0.002013859	0.008319258
ENSMMUG00000000187	UV radiation resistance associated [Source:VGNC Symbol;Acc:VGNC:78751]	0.987919759	8.41E-05	0.000512441
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	2.474986008	3.27E-20	2.51E-18
ENSMMUG00000018168	alkaline ceramidase 3 [Source:VGNC Symbol;Acc:VGNC:69415]	0.603150927	2.42E-05	0.000169301
ENSMMUG00000050318	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 [Source:NCBI gene;Acc:697946]	0.595542122	0.000883378	0.004070396
ENSMMUG00000055575	olfactory marker protein [Source:HGNC Symbol;Acc:HGNC:8136]	0.862977153	0.006316464	0.021893762
ENSMMUG00000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	1.403665794	1.59E-10	3.23E-09
ENSMMUG00000018945	chloride nucleotide-sensitive channel 1A [Source:VGNC Symbol;Acc:VGNC:71261]	1.077258144	0.001388325	0.006010149
ENSMMUG00000017355	remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]	-1.13054072	4.40E-05	0.000290448
ENSMMUG00000060971		0.880955725	0.001115648	0.004964934
ENSMMUG00000051769		0.715816174	6.76E-05	0.00042165
ENSMMUG00000050245		1.457903603	0.000146402	0.000839276
ENSMMUG00000050119		0.724026017	6.14E-07	6.24E-06
ENSMMUG00000016543	CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]	0.847612891	0.001005699	0.0045488
ENSMMUG00000012449	synaptotagmin like 2 [Source:VGNC Symbol;Acc:VGNC:78123]	0.967846186	0.002538095	0.010089224
ENSMMUG00000013045	coiled-coil domain containing 81 [Source:VGNC Symbol;Acc:VGNC:70868]	0.918849118	0.003167666	0.012178883
ENSMMUG00000013055	malic enzyme 3 [Source:VGNC Symbol;Acc:VGNC:74695]	1.019554673	0.000157524	0.000894624
ENSMMUG00000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]	1.067343475	2.37E-06	2.08E-05
ENSMMUG00000060452	FAT atypical cadherin 3 [Source:NCBI gene;Acc:695935]	0.562328248	0.014140836	0.043158794

ENSMMUG00000017741	solute carrier family 36 member 4 [Source:NCBI gene;Acc:696671]	0.691044152	2.85E-05	0.000195798
ENSMMUG00000013601	chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]	0.524549852	0.002082718	0.008557512
ENSMMUG00000004112	MRE11 homolog, double strand break repair nuclease [Source:VGNC Symbol;Acc:VGNC:74926]	0.351045005	0.014316458	0.043621536
ENSMMUG00000061391	ankyrin repeat domain 49 [Source:NCBI gene;Acc:697693]	1.256509257	2.86E-05	0.000196418
ENSMMUG00000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	2.559155095	3.20E-46	4.22E-43
ENSMMUG00000008965	piwi like RNA-mediated gene silencing 4 [Source:VGNC Symbol;Acc:VGNC:81504]	0.557545779	3.62E-05	0.000242861
ENSMMUG00000009394	sestrin 3 [Source:VGNC Symbol;Acc:VGNC:77291]	0.550138204	0.000291451	0.001536584
ENSMMUG00000061815		1.063346708	6.60E-10	1.20E-08
ENSMMUG00000016737	contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]	3.419247517	2.46E-05	0.000171881
ENSMMUG00000020784	centrosomal protein 126 [Source:NCBI gene;Acc:701911]	0.739909084	4.52E-10	8.51E-09
ENSMMUG00000003394	cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]	0.708154996	0.007552417	0.025585991
ENSMMUG00000057934		3.02852627	2.75E-12	7.45E-11
ENSMMUG00000005440	ELMO domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72109]	1.254583961	0.000903058	0.004150411
ENSMMUG00000010358	solute carrier family 35 member F2 [Source:VGNC Symbol;Acc:VGNC:77565]	1.094224055	0.010090704	0.032655513
ENSMMUG00000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	1.803302288	2.33E-46	3.39E-43
ENSMMUG00000001800	cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]	-1.17524543	0.001317183	0.005743217
ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	1.351232608	4.90E-10	9.18E-09
ENSMMUG00000004153	ATM serine/threonine kinase [Source:VGNC Symbol;Acc:VGNC:70173]	1.147708294	0.003210655	0.012321355
ENSMMUG00000000797	exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]	1.372211612	1.65E-09	2.77E-08
ENSMMUG00000052460		1.189926846	0.00414061	0.015265546
ENSMMUG00000062793		3.106458034	2.45E-09	3.99E-08
ENSMMUG00000014001	protein phosphatase 2 scaffold subunit Abeta [Source:VGNC Symbol;Acc:VGNC:76375]	1.220242385	0.001267463	0.005550901
ENSMMUG00000014334	dopamine receptor D2 [Source:VGNC Symbol;Acc:VGNC:71989]	0.765011224	0.008629954	0.028675119
ENSMMUG00000007085	zinc finger and BTB domain containing 16 [Source:VGNC Symbol;Acc:VGNC:78845]	-1.68576196	0.002427516	0.009710732
ENSMMUG00000050683		3.072274686	0.010080174	0.0326287
ENSMMUG00000051510		0.464829335	1.11E-05	8.44E-05
ENSMMUG00000020002	BUD13 homolog [Source:VGNC Symbol;Acc:VGNC:82112]	1.003694083	0.000424953	0.002147962
ENSMMUG00000060987		0.931736546	4.30E-11	9.50E-10
ENSMMUG00000044545	apolipoprotein A1 [Source:NCBI gene;Acc:696969]	1.333177181	9.77E-05	0.000583945
ENSMMUG00000016128	SIK family kinase 3 [Source:VGNC Symbol;Acc:VGNC:77330]	0.690537601	7.14E-07	7.12E-06
ENSMMUG00000002050	platelet activating factor acetylhydrolase 1b catalytic subunit 2 [Source:VGNC Symbol;Acc:VGNC:75748]	0.627749418	0.009528655	0.03114165
ENSMMUG00000002053	SID1 transmembrane family member 2 [Source:VGNC Symbol;Acc:VGNC:77300]	0.569396292	0.005516336	0.019554004
ENSMMUG00000007785	beta-secretase 1 [Source:VGNC Symbol;Acc:VGNC:70215]	3.449885101	0.001929169	0.008001235
ENSMMUG00000007794	DS cell adhesion molecule like 1 [Source:NCBI gene;Acc:698212]	0.550758265	0.000698372	0.003316637
ENSMMUG00000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	1.324034075	7.42E-08	9.12E-07

ENSMMUG0000007620	transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]	-	1.565877302	6.09E-09	9.28E-08
ENSMMUG00000063655	sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]	-	0.973769576	0.000363125	0.001861993
ENSMMUG00000061384	sodium voltage-gated channel beta subunit 2 [Source:NCBI gene;Acc:678698]	-	0.395749961	0.000483002	0.002398576
ENSMMUG00000006268	junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]	-	0.756313485	5.78E-08	7.27E-07
ENSMMUG00000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	-	0.997777073	6.07E-14	2.16E-12
ENSMMUG00000065091	myelin protein zero like 2 [Source:NCBI gene;Acc:699330]	-	0.761567724	7.06E-09	1.06E-07
ENSMMUG00000005482	lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]	-	2.118788298	5.48E-06	4.45E-05
ENSMMUG000000051519	tetratricopeptide repeat domain 36 [Source:NCBI gene;Acc:700199]	-	0.316257868	0.007995794	0.026782226
ENSMMUG00000005492	transmembrane protein 25 [Source:VGNC Symbol;Acc:VGNC:79553]	-	0.319462946	1.64E-05	0.000118934
ENSMMUG00000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	-	3.440568873	1.07E-23	1.09E-21
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	-	3.630565339	2.53E-39	1.49E-36
ENSMMUG00000009318	BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]	-	0.770943028	3.12E-06	2.67E-05
ENSMMUG00000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	-	1.806185531	0.000296264	0.001559868
ENSMMUG00000016894	ribosomal protein S25 [Source:NCBI gene;Acc:702593]	-	1.582347686	0.000181282	0.001012409
ENSMMUG00000016946	trafficking protein particle complex 4 [Source:VGNC Symbol;Acc:VGNC:79211]	-	0.890331107	0.003598799	0.013599101
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	-	1.137047149	7.14E-09	1.07E-07
ENSMMUG00000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	-	0.889870384	1.50E-06	1.39E-05
ENSMMUG00000014864	VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]	-	0.92417187	3.61E-05	0.000242362
ENSMMUG00000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.185089931	3.55E-11	8.03E-10
ENSMMUG00000014866	hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]	-	0.816096834	0.01583274	0.04729974
ENSMMUG00000044496	H2A histone family, member X [Source:NCBI gene;Acc:703073]	-	1.026933047	4.61E-05	0.000302628
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	-	1.101361324	3.48E-13	1.08E-11
ENSMMUG00000013799	ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]	-	3.131506137	4.19E-08	5.40E-07
ENSMMUG00000012191	coiled-coil domain containing 153 [Source:NCBI gene;Acc:704216]	-	1.820567065	0.000289937	0.001531069
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	-	2.190225202	5.87E-06	4.74E-05
ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	-	0.99708979	1.82E-06	1.64E-05
ENSMMUG00000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	-	0.87924931	3.49E-06	2.96E-05
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	-	0.891682855	6.58E-05	0.000411846
ENSMMUG00000054956		-	3.222771487	0.004397767	0.016095251
ENSMMUG00000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	-	-1.65514111	3.41E-13	1.06E-11
ENSMMUG00000008474	transforming growth factor beta regulator 1 [Source:VGNC Symbol;Acc:VGNC:78239]	-	1.365504354	0.000750707	0.003527157
ENSMMUG00000057600	V-set and immunoglobulin domain containing 2 [Source:NCBI gene;Acc:712047]	-	0.819997532	0.000366763	0.001877995
ENSMMUG00000008486	endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]	-	0.831314978	3.93E-07	4.17E-06
ENSMMUG00000065277	hepatic and glial cell adhesion molecule [Source:NCBI gene;Acc:716321]	-	1.030689717	0.010024492	0.032506367
ENSMMUG00000006375	coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]	-	1.253722038	4.05E-05	0.00026978
ENSMMUG00000010009	EI24 autophagy associated transmembrane protein [Source:VGNC Symbol;Acc:VGNC:72038]	-	0.576532335	0.002624296	0.010355426
ENSMMUG00000038587	prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]	-	3.522772809	1.69E-05	0.000121688

ENSMMUG00000060291	prostate and testis expressed 3 [Source:NCBI gene;Acc:100379154]	2.450208402	0.003602283	0.01360873
ENSMMUG00000014120	sc328 [Source:NCBI gene;Acc:574167]	2.226647035	0.0050784	0.018214827
ENSMMUG00000065066	V-set and immunoglobulin domain containing 10 like 2 [Source:NCBI gene;Acc:717387]	0.617611436	1.38E-06	1.28E-05
ENSMMUG00000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	2.547984694	1.48E-07	1.74E-06
ENSMMUG00000007935	family with sequence similarity 118 member B [Source:VGNC Symbol;Acc:VGNC:72360]	0.724019271	0.005885359	0.020635664
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	1.823925316	5.67E-15	2.37E-13
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.231860546	2.34E-23	2.30E-21
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	1.773514525	1.88E-26	2.85E-24
ENSMMUG00000051915		-3.55351878	0.002525566	0.010047662
ENSMMUG00000060836		4.123781508	7.93E-07	7.79E-06
ENSMMUG00000002963	Rho GTPase activating protein 32 [Source:VGNC Symbol;Acc:VGNC:69855]	2.460107158	4.05E-07	4.29E-06
ENSMMUG00000032694	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.889962698	0.00225395	0.009144759
ENSMMUG00000057813		2.96084601	1.92E-07	2.19E-06
ENSMMUG00000017555	PR/SET domain 10 [Source:VGNC Symbol;Acc:VGNC:76250]	-0.58474023	4.57E-06	3.78E-05
ENSMMUG00000018029	amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]	0.835272449	1.18E-05	8.92E-05
ENSMMUG00000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]	1.59692912	5.64E-22	5.19E-20
ENSMMUG00000022944	zinc finger and BTB domain containing 44 [Source:VGNC Symbol;Acc:VGNC:79466]	1.349692226	0.004589267	0.016666044
ENSMMUG00000007107	acyl-CoA dehydrogenase family member 8 [Source:VGNC Symbol;Acc:VGNC:69593]	2.695481961	0.001335479	0.005803843
ENSMMUG00000002250	beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]	1.941188866	0.000751065	0.003527702
ENSMMUG00000009187	calcium voltage-gated channel subunit alpha1 B [Source:VGNC Symbol;Acc:VGNC:70499]	2.196513813	0.000425859	0.002151794
ENSMMUG00000019607	patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]	0.801040715	0.000143136	0.000823415
ENSMMUG00000046202	transmembrane protein 203 [Source:NCBI gene;Acc:706164]	0.495475448	0.001126843	0.005011124
ENSMMUG00000001677	taperin [Source:NCBI gene;Acc:721581]	0.448884261	0.006337582	0.021951257
ENSMMUG00000001669	anaphase promoting complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:69641]	0.428348469	0.015881953	0.047427271
ENSMMUG00000001667	transmembrane protein 210 [Source:VGNC Symbol;Acc:VGNC:79945]	0.712552271	2.83E-05	0.00019513
ENSMMUG00000063598	leucine rich repeat containing 26 [Source:NCBI gene;Acc:706616]	1.094429929	0.0167838	0.049671436
ENSMMUG00000001661	glutamate ionotropic receptor NMDA type subunit 1 [Source:VGNC Symbol;Acc:VGNC:73281]	0.908378883	0.015186279	0.045735019
ENSMMUG00000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]	1.128128063	9.23E-05	0.000555077
ENSMMUG00000011527	TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]	0.675927277	0.005325632	0.018965879
ENSMMUG00000005048	MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]	0.817508644	1.84E-06	1.66E-05
ENSMMUG00000005042	RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]	0.854482024	3.34E-05	0.000225883
ENSMMUG00000005040	coiled-coil domain containing 183 [Source:NCBI gene;Acc:709019]	1.013671937	0.002581005	0.010206767
ENSMMUG00000026981	EGF like domain multiple 7 [Source:VGNC Symbol;Acc:VGNC:72079]	0.737071903	0.000219438	0.001202403
ENSMMUG00000056009		1.157504339	1.47E-08	2.07E-07
ENSMMUG00000003106	SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]	1.131780026	6.96E-08	8.61E-07
ENSMMUG00000003105	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]	0.97385503	6.05E-10	1.11E-08

ENSMMUG00000003098	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]	1.520253073	7.73E-14	2.68E-12
ENSMMUG00000003081	G protein signaling modulator 1 [Source:VGNC Symbol;Acc:VGNC:72960]	0.693723199	6.13E-05	0.000387055
ENSMMUG00000001409	coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]	1.617623151	1.13E-10	2.34E-09
ENSMMUG00000004885	quiescin sulfhydryl oxidase 2 [Source:VGNC Symbol;Acc:VGNC:76568]	1.647031896	0.014700984	0.044550387
ENSMMUG000000045749		1.672268349	0.00132265	0.005760143
ENSMMUG00000000276	NACC family member 2 [Source:VGNC Symbol;Acc:VGNC:75013]	3.29989335	0.000130559	0.000758872
ENSMMUG00000016827	UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]	2.286962803	2.40E-06	2.11E-05
ENSMMUG00000021496	potassium sodium-activated channel subfamily T member 1 [Source:VGNC Symbol;Acc:VGNC:73856]	0.809768131	0.000178811	0.000999762
ENSMMUG00000055942	spermatogenesis and oogenesis specific basic helix-loop-helix 1 [Source:NCBI gene;Acc:721833]	1.335859662	0.0150141	0.045310352
ENSMMUG00000012147	collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]	2.8143977	2.37E-10	4.63E-09
ENSMMUG00000051925		1.942440223	9.33E-10	1.64E-08
ENSMMUG00000064229		1.742730076	2.59E-06	2.26E-05
ENSMMUG00000005463	bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]	0.917393684	8.36E-07	8.16E-06
ENSMMUG00000017214	vav guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:78758]	1.439148343	0.002965585	0.011520766
ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	2.888958604	7.27E-13	2.15E-11
ENSMMUG00000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]	2.911363732	2.40E-08	3.23E-07
ENSMMUG00000022348	surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]	0.965926793	0.00031945	0.001663862
ENSMMUG00000057105	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.638685249	0.016372586	0.048652553
ENSMMUG00000050752	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.470683958	0.004331931	0.015887207
ENSMMUG00000051984		-1.35619646	0.006197873	0.021534054
ENSMMUG00000009976	uridine-cytidine kinase 1 [Source:VGNC Symbol;Acc:VGNC:78967]	0.962319581	3.82E-11	8.57E-10
ENSMMUG00000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	3.154390772	9.45E-07	9.15E-06
ENSMMUG00000036223		2.642791418	0.000534978	0.002620276
ENSMMUG00000059085	PR/SET domain 12 [Source:NCBI gene;Acc:716040]	1.021645159	3.35E-05	0.000226441
ENSMMUG00000008249	far upstream element binding protein 3 [Source:NCBI gene;Acc:722470]	-0.79823901	0.000156899	0.000891998
ENSMMUG00000001522	argininosuccinate synthase 1 [Source:NCBI gene;Acc:716168]	0.571726029	0.010998627	0.035039896
ENSMMUG00000061477		0.435803143	0.001266715	0.005549799
ENSMMUG00000049177	neuronal calcium sensor 1 [Source:NCBI gene;Acc:722507]	0.380924884	0.014844815	0.044911359
ENSMMUG00000003797	ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]	2.318161384	1.55E-09	2.62E-08
ENSMMUG00000003793	torsin family 1 member B [Source:VGNC Symbol;Acc:VGNC:78624]	0.976295723	0.016129991	0.04803968
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	2.151107159	2.97E-20	2.30E-18
ENSMMUG00000049483		-3.18961927	0.002924539	0.011385652
ENSMMUG00000055560		1.707670321	0.000226179	0.001232372
ENSMMUG00000051852	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.30467687	0.000536686	0.002626868
ENSMMUG00000011767	carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]	0.656508563	0.002333418	0.009398973
ENSMMUG00000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	1.137372134	2.62E-12	7.13E-11
ENSMMUG00000005987	outer dense fiber of sperm tails 2 [Source:VGNC Symbol;Acc:VGNC:75580]	0.601589468	0.004876262	0.017576548

ENSMMUG00000023495	Ral GEF with PH domain and SH3 binding motif 1 [Source:VGNC Symbol;Acc:VGNC:76492]	0.439386999	0.002996085	0.011614423
ENSMMUG00000052476	zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]	0.718294907	0.000160698	0.000910036
ENSMMUG00000016826	MAPK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:74531]	1.194396438	6.83E-07	6.86E-06
ENSMMUG00000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]	1.152417519	1.81E-10	3.63E-09
ENSMMUG00000005217	heat shock protein family A (Hsp70) member 5 [Source:NCBI gene;Acc:703193]	0.70748452	0.000453754	0.002276915
ENSMMUG00000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]	1.230201933	4.00E-09	6.22E-08
ENSMMUG00000020549	protein phosphatase 6 catalytic subunit [Source:NCBI gene;Acc:703658]	0.985938261	0.000711418	0.003366496
ENSMMUG00000051739	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.007962029	0.008096451	0.027100648
ENSMMUG00000020633	suppressor of cancer cell invasion [Source:NCBI gene;Acc:712803]	1.11748197	5.97E-06	4.81E-05
ENSMMUG00000061871		-	-	-
		2.475363088	0.000773493	0.003617848
ENSMMUG00000011183	olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]	1.645609279	7.71E-06	6.04E-05
ENSMMUG00000033102	mml-mir-181b-2 [Source:miRBase;Acc:MI0007646]	-	-	-
		2.020755604	0.001193474	0.00526861
ENSMMUG00000026876	mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]	-	-	-
		2.774723184	2.61E-05	0.00018093
ENSMMUG00000014110	adhesion G protein-coupled receptor D2 [Source:VGNC Symbol;Acc:VGNC:69462]	0.702356014	3.95E-09	6.17E-08
ENSMMUG00000054736		3.47727771	6.84E-11	1.47E-09
ENSMMUG00000000496	zinc finger and BTB domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79047]	-	-	-
		2.766577916	0.007786727	0.026208764
ENSMMUG00000063639		1.671893482	2.18E-06	1.93E-05
ENSMMUG00000038944		2.659417947	3.42E-34	1.12E-31
ENSMMUG00000058731	olfactory receptor 1B1 [Source:NCBI gene;Acc:699905]	-	-	-
		0.310128198	0.011199002	0.035576899
ENSMMUG00000043396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.033292396	4.42E-11	9.74E-10
ENSMMUG00000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	3.75577655	2.82E-25	3.62E-23
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	2.256636612	2.40E-21	2.08E-19
ENSMMUG00000058237		0.726620199	1.07E-05	8.14E-05
ENSMMUG00000013105	astrotactin 2 [Source:VGNC Symbol;Acc:VGNC:70087]	0.749053792	0.000557828	0.002721188
ENSMMUG00000065273		-	-	-
		1.157360054	0.014028005	0.042886458
ENSMMUG00000013107	tripartite motif containing 32 [Source:VGNC Symbol;Acc:VGNC:79032]	0.57789558	1.42E-05	0.000104834
ENSMMUG00000013099	pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]	1.10990928	4.69E-05	0.0003068
ENSMMUG00000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]	1.223086375	8.75E-09	1.30E-07
ENSMMUG00000041301	TNF superfamily member 8 [Source:NCBI gene;Acc:702944]	-	-	-
		1.083100776	0.000585337	0.002837293
ENSMMUG00000012892	TNF superfamily member 15 [Source:VGNC Symbol;Acc:VGNC:78596]	0.420864967	7.60E-05	0.000468558
ENSMMUG00000064892		1.013922956	1.16E-05	8.82E-05
ENSMMUG00000062461	chromosome 15 C9orf43 homolog [Source:NCBI gene;Acc:704968]	-	-	-
		3.657830897	0.001787957	0.007494674
ENSMMUG00000044537	DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]	-	-	-
		3.266618045	3.95E-06	3.31E-05
ENSMMUG00000031965	aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]	-	-	-
		1.618414279	0.002478507	0.009890214
ENSMMUG00000057031		-	-	-
		3.669097323	2.68E-07	2.96E-06
ENSMMUG00000007187	haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]	-	-	-
		3.882719186	3.48E-06	2.95E-05
ENSMMUG00000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	-	-	-
		3.343289227	2.33E-10	4.56E-09
ENSMMUG00000021097	sushi domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78207]	-	-	-
		1.076055345	0.001611085	0.006846052
ENSMMUG00000000695	transmembrane protein 245 [Source:VGNC Symbol;Acc:VGNC:78933]	0.635835499	0.006419187	0.022175788

ENSMMUG0000000690	catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]	-	1.481835227	1.76E-07	2.03E-06
ENSMMUG00000053648	actin binding transcription modulator [Source:NCBI gene;Acc:710486]	-	1.044231399	9.80E-06	7.50E-05
ENSMMUG00000064066		-	1.374053951	0.000779558	0.003640358
ENSMMUG00000019354	actin like 7B [Source:VGNC Symbol;Acc:VGNC:69421]	-	1.491717822	0.001138166	0.005048154
ENSMMUG00000023797	post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]	-	1.302669103	0.000562141	0.002738552
ENSMMUG00000053976	bile acid-CoA:amino acid N-acyltransferase [Source:NCBI gene;Acc:100429419]	-	1.604720612	2.30E-07	2.58E-06
ENSMMUG00000057599		-	1.017668849	0.016279511	0.048426889
ENSMMUG00000001827	phospholipid phosphatase related 1 [Source:NCBI gene;Acc:714164]	-	0.922018876	0.000765717	0.003588404
ENSMMUG00000009775	caveolae associated protein 4 [Source:NCBI gene;Acc:714379]	-	-0.94643819	5.17E-13	1.56E-11
ENSMMUG00000057137		-	0.510976096	0.008826576	0.02921492
ENSMMUG00000011410	nuclear receptor subfamily 4 group A member 3 [Source:VGNC Symbol;Acc:VGNC:75519]	-	1.129256333	0.000930192	0.004258962
ENSMMUG00000010661	SEC61 translocon subunit beta [Source:NCBI gene;Acc:717815]	-	0.576314086	0.001062259	0.004761658
ENSMMUG00000009831	TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]	-	1.326545069	0.002008893	0.008301102
ENSMMUG00000008670	SH2 domain containing adaptor protein B [Source:VGNC Symbol;Acc:VGNC:82236]	-	0.435199297	0.005624888	0.019908559
ENSMMUG00000047381	DDB1 and CUL4 associated factor 10 [Source:NCBI gene;Acc:716256]	-	0.407109949	0.001219957	0.00536896
ENSMMUG00000017886	F-box protein 10 [Source:NCBI gene;Acc:718443]	-	0.937831926	9.81E-05	0.0005866
ENSMMUG00000017892	RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]	-	0.910165735	3.09E-05	0.000210675
ENSMMUG00000007421	zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]	-	0.620120932	4.69E-06	3.85E-05
ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	-	4.038174094	2.44E-12	6.68E-11
ENSMMUG00000006132	clathrin light chain A [Source:VGNC Symbol;Acc:VGNC:71266]	-	0.576017922	0.012285765	0.038375197
ENSMMUG00000054523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.509310982	0.003119667	0.012022957
ENSMMUG00000010213	GLI pathogenesis related 2 [Source:VGNC Symbol;Acc:VGNC:81414]	-	3.343760873	0.000798304	0.003720727
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	-	1.520773705	1.25E-30	2.84E-28
ENSMMUG00000059406	RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]	-	2.495936888	5.69E-07	5.83E-06
ENSMMUG00000016331	glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]	-	3.903616971	5.65E-06	4.57E-05
ENSMMUG00000031856	talin 1 [Source:VGNC Symbol;Acc:VGNC:78371]	-	0.634817365	4.17E-05	0.000276607
ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	-	2.500966819	1.89E-39	1.25E-36
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.184318917	3.19E-59	1.55E-55
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	-	2.055070879	1.03E-41	8.84E-39
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	-	2.087715291	5.25E-37	2.54E-34
ENSMMUG00000038988	RNase MRP [Source:RFAM;Acc:RF00030]	-	3.057455061	0.00035521	0.001825916
ENSMMUG00000016316	testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]	-	1.284119802	2.66E-05	0.00018379
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	-	2.728610286	4.38E-28	7.96E-26
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	-	1.244127307	4.54E-11	9.97E-10
ENSMMUG00000059191	stomatin like 2 [Source:NCBI gene;Acc:698458]	-	1.236176527	0.016013603	0.047751743
ENSMMUG00000011866	phosphatidylinositol glycan anchor biosynthesis class O [Source:VGNC Symbol;Acc:VGNC:75851]	-	1.502245334	0.003025877	0.011717414

ENSMMUG00000020190	valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]	1.600287725	3.86E-07	4.11E-06
ENSMMUG00000061896		1.691093202	5.36E-10	9.94E-09
ENSMMUG00000044048	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.715194277	7.44E-07	7.38E-06
ENSMMUG00000020188	chromosome 15 C9orf131 homolog [Source:VGNC Symbol;Acc:VGNC:70451]	0.333510376	0.011917062	0.037432657
ENSMMUG00000022895	DnaJ heat shock protein family (Hsp40) member B5 [Source:NCBI gene;Acc:699081]	0.400985544	5.03E-05	0.000326376
ENSMMUG00000058149		0.847806479	0.00669349	0.023008575
ENSMMUG00000017458	DDB1 and CUL4 associated factor 12 [Source:VGNC Symbol;Acc:VGNC:71678]	0.995436018	0.001896805	0.007885002
ENSMMUG00000012597	ubiquitin associated protein 2 [Source:VGNC Symbol;Acc:VGNC:78949]	0.931391115	0.007720378	0.026051797
ENSMMUG00000035888	small nucleolar RNA, C/D box 121A [Source:HGNC Symbol;Acc:HGNC:33560]	1.279965163	0.008385744	0.027914716
ENSMMUG00000053200	ubiquitin conjugating enzyme E2 R2 [Source:NCBI gene;Acc:701507]	0.644886725	0.003248645	0.012457281
ENSMMUG00000000389	nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]	0.843428438	1.31E-06	1.23E-05
ENSMMUG00000003314	aquaporin 3 (Gill blood group) [Source:NCBI gene;Acc:702721]	0.824715038	0.000186665	0.001039677
ENSMMUG00000001545	aquaporin 7 [Source:NCBI gene;Acc:702836]	2.460359405	4.60E-13	1.40E-11
		-		
ENSMMUG00000002088	SMU1 DNA replication regulator and spliceosomal factor [Source:VGNC Symbol;Acc:VGNC:77733]	0.433381526	0.007028344	0.023995079
ENSMMUG00000012442	DExD/H-box helicase 58 [Source:VGNC Symbol;Acc:VGNC:71672]	0.813282747	2.41E-12	6.62E-11
ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	3.063886855	3.02E-35	1.25E-32
ENSMMUG00000061225		1.932387237	0.00542419	0.01927266
ENSMMUG00000062843	MOB kinase activator 3B [Source:NCBI gene;Acc:706919]	0.795375294	7.65E-05	0.000471416
		-		
ENSMMUG00000061449	equatorin [Source:NCBI gene;Acc:707334]	1.439877226	0.00291786	0.011362692
ENSMMUG00000006076	intraflagellar transport 74 [Source:VGNC Symbol;Acc:VGNC:73430]	1.249973852	0.003769408	0.01414263
ENSMMUG00000006079	leucine rich repeat containing 19 [Source:VGNC Symbol;Acc:VGNC:74337]	2.016369763	0.000823221	0.003827044
		-		
ENSMMUG00000064752	phospholipase A2 activating protein [Source:NCBI gene;Acc:707876]	1.420994718	0.011769733	0.037009866
ENSMMUG00000050918		0.532700499	0.008095092	0.027100648
		-		
ENSMMUG00000054514	interferon alpha 6 [Source:NCBI gene;Acc:106995851]	2.825505534	0.013852409	0.042438875
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	1.885081806	4.16E-24	4.48E-22
ENSMMUG00000013997	perilipin-2 [Source:NCBI gene;Acc:712661]	3.415954514	0.003032694	0.01173756
ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	3.551532585	5.24E-26	7.26E-24
ENSMMUG00000063140	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.144835082	0.000197088	0.001090623
		-		
ENSMMUG00000044658	ADAMTS like 1 [Source:NCBI gene;Acc:712844]	0.412028375	0.01367937	0.041988388
		-		
ENSMMUG00000013466	tetratricopeptide repeat domain 39B [Source:VGNC Symbol;Acc:VGNC:79402]	0.784806802	6.91E-12	1.77E-10
		-		
ENSMMUG00000052889	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.681821751	0.006102803	0.021269826
		-		
ENSMMUG00000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.137027105	2.01E-09	3.33E-08
ENSMMUG00000008128	FRAS1 related extracellular matrix 1 [Source:VGNC Symbol;Acc:VGNC:72768]	0.610482208	0.000201622	0.001112747
		-		
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	0.932640599	4.98E-12	1.31E-10
		-		
ENSMMUG00000050923		0.874412619	4.95E-05	0.000321577
		-		
ENSMMUG00000002175	TPD52 like 3 [Source:HGNC Symbol;Acc:HGNC:23382]	0.729001477	0.001259056	0.005524568
		-		
ENSMMUG00000006197	plasminogen receptor with a C-terminal lysine [Source:VGNC Symbol;Acc:VGNC:76098]	0.923800508	8.06E-06	6.28E-05
ENSMMUG00000052972		0.414877439	0.009156155	0.030162714
		-		
ENSMMUG00000065127	insulin like 6 [Source:NCBI gene;Acc:693735]	0.460210427	1.81E-05	0.000130209
ENSMMUG00000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	3.55270555	9.90E-42	8.84E-39
ENSMMUG00000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	3.757300782	1.08E-13	3.68E-12

ENSMMUG00000026024	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.343769529	0.009829657	0.031974428
ENSMMUG00000056693		-		
ENSMMUG00000015093	very low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:78774]	0.550739131	2.04E-06	1.82E-05
ENSMMUG00000057073		-		
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	0.399439627	0.011110625	0.035334753
ENSMMUG00000055563		-		
ENSMMUG00000059950		2.483013922	1.31E-05	9.75E-05
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	-		
ENSMMUG00000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.247209357	4.55E-10	8.56E-09
ENSMMUG00000011401	amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]	-0.50160223	0.005758173	0.020282664
ENSMMUG00000012667	annexin A1 [Source:VGNC Symbol;Acc:VGNC:69944]	0.909411871	0.009318991	0.03058671
ENSMMUG00000056840		0.872825016	8.88E-08	1.07E-06
ENSMMUG00000008685	solute carrier family 28 member 3 [Source:VGNC Symbol;Acc:VGNC:77493]	2.391688396	6.45E-11	1.40E-09
ENSMMUG00000053862		-		
ENSMMUG00000023117	neurotrophic receptor tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:75541]	2.616401032	1.47E-07	1.72E-06
ENSMMUG00000060761		0.5335042	5.23E-07	5.41E-06
ENSMMUG00000017053	death associated protein kinase 1 [Source:VGNC Symbol;Acc:VGNC:71732]	1.360641266	8.45E-09	1.26E-07
ENSMMUG00000054211		-		
ENSMMUG00000057499		3.177157013	0.011704031	0.036859076
ENSMMUG00000033550		-		
ENSMMUG00000049479		3.700445959	0.004999375	0.017957973
ENSMMUG00000053778		-0.74009656	1.36E-09	2.33E-08
ENSMMUG0000007223	DIRAS family GTPase 2 [Source:VGNC Symbol;Acc:VGNC:71673]	1.764203359	2.59E-17	1.44E-15
ENSMMUG0000001748	spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]	3.244851023	0.003596926	0.013595559
ENSMMUG00000020009	receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]	2.277272126	1.29E-05	9.66E-05
ENSMMUG00000060533		2.457828696	5.10E-10	9.49E-09
ENSMMUG0000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	2.877443966	0.012263649	0.03831435
ENSMMUG0000004629	nucleolar protein 8 [Source:VGNC Symbol;Acc:VGNC:75237]	3.319921305	0.000177712	0.000995528
ENSMMUG0000004630	centromere protein P [Source:NCBI gene;Acc:100427110]	-		
ENSMMUG00000009493	family with sequence similarity 120A [Source:NCBI gene;Acc:717459]	0.801683405	0.006499417	0.022405033
ENSMMUG0000002517	protein tyrosine phosphatase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76567]	0.519648079	0.004077609	0.015075332
ENSMMUG00000060049		1.643562908	0.00042807	0.002159963
ENSMMUG00000050773		1.118471097	2.50E-05	0.00017393
ENSMMUG0000005997	cell division cycle 14B [Source:NCBI gene;Acc:710300]	0.911229515	4.35E-10	8.22E-09
ENSMMUG00000019423	zinc finger protein 2 [Source:NCBI gene;Acc:703864]	1.18164572	3.26E-07	3.54E-06
ENSMMUG00000060932	zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]	-		
ENSMMUG00000049314	dual specificity phosphatase 2 [Source:NCBI gene;Acc:718442]	0.410648832	0.003790733	0.014202549
		-		
		0.721981858	0.009466019	0.030985706
		-		
		2.013546631	4.01E-11	8.96E-10
		-		
		1.173916157	4.07E-05	0.000270733
		-		
		0.995551908	0.000630618	0.003027506
		-		
		0.805376058	0.00120078	0.005296037
		3.260882	7.33E-08	9.02E-07
		-		
		3.268646116	0.00132131	0.005756032
		-		
		1.420973015	3.18E-06	2.72E-05
		-		
		1.895895987	0.014407757	0.043817065

ENSMMUG00000053389		-0.85793961	6.63E-07	6.67E-06
ENSMMUG00000057143	transmembrane protein 127 [Source:NCBI gene;Acc:705069]	1.564596163	1.67E-08	2.32E-07
ENSMMUG00000015515	REV1 DNA directed polymerase [Source:NCBI gene;Acc:709475]	0.525995073	0.00097395	0.00442309
ENSMMUG00000057336		0.529159708	4.79E-07	5.00E-06
ENSMMUG00000019682	mitochondrial ribosomal protein S9 [Source:VGNC Symbol;Acc:VGNC:74762]	1.472396415	0.009741612	0.031737743
ENSMMUG00000001390	NCK adaptor protein 2 [Source:VGNC Symbol;Acc:VGNC:75142]	1.478182285	0.00042606	0.002152059
ENSMMUG00000058257		0.844072164	0.000912332	0.004189062
ENSMMUG00000002589	sulfotransferase 1C3-like [Source:NCBI gene;Acc:114671897]	-0.57634244	0.005436443	0.019303754
ENSMMUG00000055529	sulfotransferase family 1C member 4 [Source:NCBI gene;Acc:693903]	3.952829739	2.25E-05	0.000158826
ENSMMUG00000009156	LIM zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74271]	-2.3651761	0.00063853	0.003062456
ENSMMUG00000021019	E3 SUMO-protein ligase RanBP2 [Source:NCBI gene;Acc:694823]	2.394534873	0.001950832	0.008086287
ENSMMUG00000060346		2.818838474	1.76E-09	2.94E-08
ENSMMUG00000002231	transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]	0.838018256	0.00013592	0.000785635
ENSMMUG00000044163	zinc finger CCCH-type containing 8 [Source:NCBI gene;Acc:698828]	0.467698849	0.000981119	0.004454255
ENSMMUG00000016430	zinc finger CCCH-type containing 6 [Source:VGNC Symbol;Acc:VGNC:79458]	1.082092015	0.016140884	0.048062275
ENSMMUG00000059850	immunoglobulin kappa variable 1-9 [Source:NCBI gene;Acc:106993071]	1.319490091	0.004114052	0.015183036
ENSMMUG00000051042		0.936907779	1.27E-08	1.82E-07
ENSMMUG00000061619		0.790962129	0.008812833	0.029182724
ENSMMUG00000046169		3.32942507	3.37E-26	4.84E-24
ENSMMUG00000063603		1.828085089	0.00510497	0.018287569
ENSMMUG00000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	1.036494761	5.03E-06	4.11E-05
ENSMMUG00000062818	regenerating islet-derived protein 3-alpha [Source:NCBI gene;Acc:716890]	1.363258577	9.21E-05	0.000554468
ENSMMUG00000054863		1.669167269	0.001689552	0.007137757
ENSMMUG00000056785		-0.83020039	0.00061592	0.002966741
ENSMMUG00000056765		0.580892313	0.000228106	0.001241007
ENSMMUG00000064788		0.738318722	0.005720818	0.020165743
ENSMMUG00000062747		0.467489872	4.05E-06	3.38E-05
ENSMMUG00000023758	mitochondrial ribosomal protein L19 [Source:VGNC Symbol;Acc:VGNC:74743]	0.370397399	0.008616777	0.02864443
ENSMMUG00000048322	eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]	1.052412444	0.000152513	0.000869784
ENSMMUG00000051843		0.860784817	8.70E-07	8.47E-06
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	3.24098264	3.46E-24	3.78E-22
ENSMMUG00000058044		0.846734555	2.08E-08	2.83E-07
ENSMMUG00000006330	poly(A) binding protein interacting protein 2B [Source:NCBI gene;Acc:711595]	0.508096215	6.47E-05	0.000406069
ENSMMUG00000059332	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.848636564	8.07E-07	7.92E-06
ENSMMUG00000008396	methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]	0.725866144	5.91E-08	7.41E-07
ENSMMUG00000052504	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.339666394	0.000960592	0.004377467

ENSMMUG0000002093	testis expressed 261 [Source:NCBI gene;Acc:703863]	1.427998096	7.04E-15	2.88E-13
ENSMMUG00000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	-1.6527324	8.37E-11	1.78E-09
ENSMMUG00000041775	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.454510425	0.001724028	0.007262298
ENSMMUG0000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	1.700005775	2.78E-20	2.17E-18
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	1.919127024	5.33E-07	5.49E-06
ENSMMUG00000059700		2.343375442	0.002665524	0.010481125
ENSMMUG00000020854	C-type lectin domain family 4 member F [Source:VGNC Symbol;Acc:VGNC:71349]	3.333835678	0.013133823	0.040570843
ENSMMUG00000020852	folliculogenesis specific bHLH transcription factor [Source:VGNC Symbol;Acc:VGNC:72563]	3.607181226	0.010982566	0.035011746
ENSMMUG00000010592	adducin 2 [Source:VGNC Symbol;Acc:VGNC:69529]	2.295349195	0.001079032	0.004821978
ENSMMUG00000063699		3.347961271	0.000806024	0.003754301
ENSMMUG00000064749		1.977747256	6.96E-05	0.000432617
ENSMMUG00000007868	AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]	0.839214229	9.20E-06	7.08E-05
ENSMMUG00000049539		1.078622707	1.75E-07	2.02E-06
ENSMMUG00000058336		0.790102071	0.015679156	0.046947044
ENSMMUG00000013797	glutamine--fructose-6-phosphate transaminase 1 [Source:VGNC Symbol;Acc:VGNC:72915]	0.293009453	0.001135573	0.005040558
ENSMMUG00000007552	aprataxin and PNKP like factor [Source:NCBI gene;Acc:705875]	0.720530874	0.010561644	0.033870421
ENSMMUG00000017209	C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]	1.918161589	2.61E-05	0.000180998
ENSMMUG00000057729		3.254561317	0.009446108	0.030927495
ENSMMUG00000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	1.118821494	8.88E-12	2.23E-10
ENSMMUG00000008772	VPS54 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:79159]	0.52795325	3.55E-06	3.00E-05
ENSMMUG00000008770	UDP-glucose pyrophosphorylase 2 [Source:VGNC Symbol;Acc:VGNC:78712]	0.647856527	0.000240537	0.001299401
ENSMMUG00000060943		0.371869651	0.003112539	0.012003576
ENSMMUG00000006163	malate dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:74690]	-0.67691874	4.73E-05	0.000308822
ENSMMUG00000063238		1.9113681	3.10E-05	0.000211315
ENSMMUG00000006941	exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]	1.105186367	6.79E-07	6.82E-06
ENSMMUG00000008098	ubiquitin specific peptidase 34 [Source:VGNC Symbol;Acc:VGNC:79223]	0.382186849	0.016690999	0.049467288
ENSMMUG00000005685	pseudouridine synthase 10 [Source:VGNC Symbol;Acc:VGNC:76547]	0.911335371	0.00199806	0.008261033
ENSMMUG00000055963		1.421645985	1.03E-08	1.50E-07
ENSMMUG00000010834	REL proto-oncogene, NF-kB subunit [Source:VGNC Symbol;Acc:VGNC:76892]	0.653797828	2.63E-06	2.29E-05
ENSMMUG00000049993		0.377943933	1.20E-05	9.01E-05
ENSMMUG00000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	3.757950943	9.54E-06	7.33E-05
ENSMMUG00000007001	protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]	3.673901439	0.000124501	0.000726272
ENSMMUG00000007000	cilia and flagella associated protein 36 [Source:VGNC Symbol;Acc:VGNC:71142]	3.889592194	0.002209324	0.008996344
ENSMMUG00000008104	proteasome activator subunit 4 [Source:VGNC Symbol;Acc:VGNC:76295]	0.551281824	1.10E-05	8.37E-05
ENSMMUG00000008105	G protein-coupled receptor 75 [Source:VGNC Symbol;Acc:VGNC:73143]	0.50178547	6.84E-05	0.000425964
ENSMMUG00000062091		3.100106637	6.38E-12	1.64E-10
ENSMMUG00000061344		0.972173721	0.006330917	0.021933397
ENSMMUG00000052169	potassium two pore domain channel subfamily K member 12 [Source:NCBI gene;Acc:715556]	3.741073252	4.34E-05	0.000287013

ENSMMUG00000053577		-	2.944481488	5.76E-14	2.05E-12
ENSMMUG0000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	-	2.707198879	2.11E-14	8.20E-13
ENSMMUG00000059300		-	0.625560237	0.002111859	0.00866011
ENSMMUG00000038319	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.102821593	0.005935186	0.020785303
ENSMMUG00000014425	protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]	-	0.757373955	0.002218124	0.009024594
ENSMMUG00000054734		-	0.933897063	5.27E-08	6.70E-07
ENSMMUG00000023752	SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]	-	0.879149301	0.000945116	0.004320489
ENSMMUG00000053683		-	0.798222378	0.000625917	0.003008912
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	-	0.975742049	5.91E-15	2.47E-13
ENSMMUG00000051072		-	1.167108357	6.14E-12	1.58E-10
ENSMMUG00000019841	leucine rich pentatricopeptide repeat containing [Source:VGNC Symbol;Acc:VGNC:82177]	-	-0.46634138	0.014174047	0.043251075
ENSMMUG00000008081	ATP binding cassette subfamily G member 8 [Source:VGNC Symbol;Acc:VGNC:69392]	-	1.325894028	2.94E-07	3.23E-06
ENSMMUG00000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	-	1.13890663	7.58E-10	1.36E-08
ENSMMUG00000062474	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.376558041	2.99E-05	0.000204422
ENSMMUG00000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	-	1.012142043	3.81E-12	1.02E-10
ENSMMUG00000064735	3-hydroxyanthranilate 3,4-dioxygenase [Source:NCBI gene;Acc:713101]	-	0.464079091	0.000145823	0.000836887
ENSMMUG00000063947	oxoeicosanoid receptor 1 [Source:NCBI gene;Acc:713039]	-	0.747402326	0.00308323	0.011901463
ENSMMUG00000020744	metastasis associated 1 family member 3 [Source:VGNC Symbol;Acc:VGNC:74814]	-	0.790296995	0.00046949	0.002342133
ENSMMUG00000056008		-	0.832073011	1.02E-09	1.78E-08
ENSMMUG00000055395	Y RNA [Source:RFAM;Acc:RF00019]	-	0.913703393	0.001843509	0.007685427
ENSMMUG00000043458	transmembrane protein 178A [Source:NCBI gene;Acc:714010]	-	0.774145251	0.000439255	0.002213328
ENSMMUG00000056330		-	1.582444862	5.26E-05	0.000338957
ENSMMUG00000013901	mitogen-activated protein kinase kinase kinase 3 [Source:VGNC Symbol;Acc:VGNC:81466]	-	0.838019595	0.00052743	0.002589411
ENSMMUG00000020575	SOS Ras/Rac guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:77837]	-	0.496274068	0.015393478	0.046253614
ENSMMUG00000060562		-	0.711996841	0.004443703	0.016230681
ENSMMUG00000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]	-	0.743170319	8.80E-11	1.86E-09
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	-	1.253226508	1.42E-11	3.44E-10
ENSMMUG00000054398		-	1.024360195	0.000224319	0.001224073
ENSMMUG00000016442	glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]	-	1.516775079	0.002630952	0.010376059
ENSMMUG00000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	-	1.441443071	5.18E-07	5.36E-06
ENSMMUG00000016434	NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]	-	1.774247956	8.90E-07	8.65E-06
ENSMMUG00000001278	vitrin [Source:VGNC Symbol;Acc:VGNC:78773]	-	1.178412016	7.11E-07	7.10E-06
ENSMMUG00000049720		-	1.542025413	0.014391959	0.043804813
ENSMMUG00000048261	cysteine rich transmembrane BMP regulator 1 [Source:NCBI gene;Acc:711451]	-	0.292747802	0.002233537	0.009074604
ENSMMUG00000053593		-	0.776659145	0.000113252	0.000665998
ENSMMUG00000021436	latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]	-	1.636113567	6.48E-14	2.29E-12
ENSMMUG00000021691	spastin [Source:VGNC Symbol;Acc:VGNC:77857]	-	1.234166364	1.45E-08	2.05E-07
ENSMMUG00000058351		-	0.626235608	0.000146413	0.000839276
ENSMMUG00000048513	tudor domain containing 15 [Source:NCBI gene;Acc:703066]	-	0.968148426	0.000474685	0.002363186

ENSMMUG0000007692	apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]	-	0.872088546	4.25E-09	6.60E-08
ENSMMUG0000003355	lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]	-	0.621746407	0.000310997	0.001624492
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	-	1.140915428	1.52E-09	2.58E-08
ENSMMUG00000064216		-	2.645856597	3.57E-05	0.000239689
ENSMMUG00000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	-	3.469666748	5.72E-09	8.75E-08
ENSMMUG00000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	-	4.937282488	4.80E-12	1.27E-10
ENSMMUG00000040529	visinin like 1 [Source:NCBI gene;Acc:699459]	-	2.654191692	0.002019537	0.008338348
ENSMMUG0000004215	LRAT domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74321]	-	2.755793416	4.27E-05	0.000282746
ENSMMUG00000052377		-	0.659872744	0.003974723	0.014766304
ENSMMUG00000056755		-	1.496044972	0.002244997	0.009113523
ENSMMUG00000020249	growth regulating estrogen receptor binding 1 [Source:VGNC Symbol;Acc:VGNC:73227]	-	0.379037477	0.010941325	0.034910897
ENSMMUG00000023225	E2F transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:72027]	-	0.441725421	0.010470524	0.033637571
ENSMMUG00000059188		-	1.177639515	0.000355626	0.001827405
ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	-	1.686708595	5.92E-07	6.05E-06
ENSMMUG00000022785	solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]	-	1.873251302	0.000178103	0.000997334
ENSMMUG00000063262		-	1.078261435	2.09E-10	4.15E-09
ENSMMUG00000052047		-	1.230850236	1.68E-06	1.53E-05
ENSMMUG00000037908		-	0.818720028	0.006454994	0.022283602
ENSMMUG00000022879	EARP complex and GARP complex interacting protein 1 [Source:NCBI gene;Acc:707650]	-	2.251019671	0.001681811	0.007111251
ENSMMUG00000051814		-	0.468148952	0.013044523	0.04032927
ENSMMUG00000009310	myelin transcription factor 1 like [Source:NCBI gene;Acc:706914]	-	0.538856297	0.006110798	0.021282384
ENSMMUG00000050687	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.529938928	0.012610752	0.039210956
ENSMMUG00000009660	syntrophin gamma 2 [Source:VGNC Symbol;Acc:VGNC:77694]	-	0.630473247	0.001734668	0.007292358
ENSMMUG00000061533		-	3.044550344	1.53E-35	6.97E-33
ENSMMUG00000050543		-	2.787508549	7.60E-17	4.02E-15
ENSMMUG00000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	-	4.128440864	2.25E-15	1.01E-13
ENSMMUG00000038858		-	0.533253945	0.000359418	0.001844938
ENSMMUG00000063735		-	1.340958477	0.000166475	0.000938732
ENSMMUG00000022914	RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]	-	1.375301094	8.10E-15	3.29E-13
ENSMMUG00000009115	tubulin tyrosine ligase like 8 [Source:VGNC Symbol;Acc:VGNC:79943]	-	-0.32031519	0.001970947	0.008161648
ENSMMUG00000058324		-	3.026959252	0.014341042	0.043678131
ENSMMUG00000011278	cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]	-	1.00474607	3.53E-08	4.62E-07
ENSMMUG00000003764	TBC1 domain family member 22A [Source:VGNC Symbol;Acc:VGNC:82077]	-	0.420931437	0.015672796	0.046947044
ENSMMUG00000056186		-	1.499412933	3.12E-06	2.67E-05
ENSMMUG00000020993	cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]	-	1.767057377	8.64E-08	1.05E-06
ENSMMUG0000000807	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [Source:VGNC Symbol;Acc:VGNC:79500]	-	1.631273948	0.000831386	0.003863764
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	-	1.927000163	1.10E-10	2.29E-09
ENSMMUG00000008955	ataxin 10 [Source:VGNC Symbol;Acc:VGNC:70046]	-	0.543952451	0.006119324	0.021289917

ENSMMUG00000023004	structural maintenance of chromosomes 1B [Source:VGNC Symbol;Acc:VGNC:77657]	0.531104728	2.61E-05	0.00018093
ENSMMUG00000023003	family with sequence similarity 118 member A [Source:VGNC Symbol;Acc:VGNC:72265]	0.607668249	0.000220488	0.00120679
		-		
ENSMMUG00000031000	Rho GTPase activating protein 8 [Source:NCBI gene;Acc:716745]	3.001643027	4.99E-06	4.09E-05
ENSMMUG00000058874	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-3.5712024	0.001730503	0.007281133
		-		
ENSMMUG00000065099		2.833861852	2.71E-20	2.13E-18
ENSMMUG00000005769	EF-hand calcium binding domain 6 [Source:VGNC Symbol;Acc:VGNC:72092]	0.708747655	0.002639418	0.010395347
ENSMMUG00000008106	solute carrier family 25 member 17 [Source:NCBI gene;Acc:705547]	0.595625072	0.003886222	0.014493077
		-		
ENSMMUG00000056662		1.302330658	9.63E-08	1.15E-06
		-		
ENSMMUG00000012101	synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]	1.473894598	4.20E-08	5.41E-07
ENSMMUG00000004868	dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]	3.599647991	0.000288545	0.001525856
		-		
ENSMMUG00000021083	Josephin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73920]	1.124788039	0.000913216	0.004191799
		-		
ENSMMUG00000000364	translocase of outer mitochondrial membrane 22 [Source:NCBI gene;Acc:701286]	1.382488706	0.001549599	0.006607956
		-		
ENSMMUG00000061986		1.774301267	0.000158604	0.000899932
		-		
ENSMMUG00000012467	family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]	1.246061732	2.39E-05	0.00016774
		-		
ENSMMUG00000061118		1.373748937	0.01264042	0.039280415
		-		
ENSMMUG00000049788		1.694159269	9.78E-06	7.50E-05
		-		
ENSMMUG00000002697	protein interacting with PRKCA 1 [Source:VGNC Symbol;Acc:VGNC:76013]	0.255637845	0.012072285	0.037830311
ENSMMUG00000006987	RNA polymerase II subunit F [Source:NCBI gene;Acc:699566]	-0.35197618	0.002321027	0.009359435
		-		
ENSMMUG00000019785	eukaryotic translation initiation factor 3 subunit L [Source:NCBI gene;Acc:699189]	1.344473684	0.006669155	0.022940635
ENSMMUG00000015258	glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]	2.458703335	6.27E-05	0.000395025
ENSMMUG00000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	0.631402295	6.08E-07	6.20E-06
ENSMMUG00000056629	nucleolar protein 12 [Source:NCBI gene;Acc:698318]	1.255980758	0.002967083	0.011521556
ENSMMUG00000003007	caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]	2.873220307	8.64E-06	6.68E-05
ENSMMUG00000003005	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]	5.101331066	9.55E-08	1.14E-06
ENSMMUG00000052785	extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]	3.678010032	8.54E-05	0.00051901
		-		
ENSMMUG00000062922		0.818313322	0.00096154	0.004380414
ENSMMUG00000000151	transmembrane serine protease 6 [Source:VGNC Symbol;Acc:VGNC:79038]	0.644685515	0.000483689	0.002400612
ENSMMUG00000012350	mercaptopyruvate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:74922]	0.779402502	0.003869168	0.014440588
ENSMMUG00000012349	thiosulfate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:78664]	1.488320035	0.012021049	0.037686001
ENSMMUG00000014986	testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]	1.111618142	9.15E-09	1.35E-07
ENSMMUG00000008160	neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]	1.110544603	0.007843972	0.026370913
ENSMMUG00000055820		1.76830359	5.84E-06	4.71E-05
ENSMMUG00000008778	parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]	1.104007873	5.54E-08	7.01E-07
ENSMMUG00000006101	myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]	0.84951979	1.51E-05	0.000110489
ENSMMUG00000014010	RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]	0.627439249	7.58E-06	5.94E-05
ENSMMUG00000048463	apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]	0.495598994	0.003073693	0.011872646
		-		
ENSMMUG00000059824		3.488297373	0.000738912	0.003477362
ENSMMUG00000062825	TIMP metalloproteinase inhibitor 3 [Source:NCBI gene;Acc:574381]	-0.4581443	0.016705194	0.049499269
		-		
ENSMMUG00000006720	RNA 2',3'-cyclic phosphate and 5'-OH ligase [Source:VGNC Symbol;Acc:VGNC:77111]	0.538989088	0.003335217	0.01275225

ENSMMUG00000056552		0.912434897	8.76E-05	0.000531156
ENSMMUG00000002182	phosphatidylserine decarboxylase [Source:VGNC Symbol;Acc:VGNC:76005]	-	-	-
ENSMMUG00000002181	SFI1 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]	1.384647901	0.00149338	0.006394482
ENSMMUG00000015001	LIM domain kinase 2 [Source:VGNC Symbol;Acc:VGNC:74270]	0.804618997	5.90E-10	1.09E-08
ENSMMUG00000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]	0.611197863	0.003539112	0.013390961
ENSMMUG000000056113		-	-	-
ENSMMUG00000005898	MORC family CW-type zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:74810]	1.648085822	7.73E-07	7.63E-06
ENSMMUG00000019805	dual specificity phosphatase 18 [Source:VGNC Symbol;Acc:VGNC:71858]	1.709525643	0.013211341	0.040776534
ENSMMUG00000052343		-	-	-
ENSMMUG00000021374	EWS RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72446]	1.971427162	0.016344953	0.048580367
ENSMMUG00000021373	rhomboid domain containing 3 [Source:NCBI gene;Acc:714479]	0.532133283	0.000850609	0.003944274
ENSMMUG00000021372	EMI domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72063]	1.014739297	0.000254272	0.001364689
ENSMMUG00000058170	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.814321203	0.000129173	0.000751714
ENSMMUG0000007215	X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]	0.710439995	0.001026051	0.00462646
ENSMMUG00000053198	coiled-coil domain containing 117 [Source:NCBI gene;Acc:713804]	0.754125939	0.000235513	0.001276053
ENSMMUG00000020489	HscB mitochondrial iron-sulfur cluster cochaperone [Source:VGNC Symbol;Acc:VGNC:73454]	0.715815612	0.009700227	0.031617086
ENSMMUG00000020486	checkpoint kinase 2 [Source:VGNC Symbol;Acc:VGNC:70958]	1.087184149	1.56E-05	0.000113954
ENSMMUG0000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	0.764029661	0.002638697	0.010395347
ENSMMUG00000042122	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.658054589	4.01E-07	4.25E-06
ENSMMUG00000023450	tyrosylprotein sulfotransferase 2 [Source:VGNC Symbol;Acc:VGNC:78639]	0.627739903	1.65E-05	0.000119226
ENSMMUG00000023446	tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]	3.083275487	2.74E-19	1.92E-17
ENSMMUG00000023443	SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]	3.693860026	0.000732108	0.003449805
ENSMMUG00000023442	HPS4 biogenesis of lysosomal organelles complex 3 subunit 2 [Source:VGNC Symbol;Acc:VGNC:73396]	1.045085461	1.25E-05	9.36E-05
ENSMMUG00000016052	seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]	1.295127863	4.46E-06	3.69E-05
ENSMMUG00000006853	crystallin beta B2 [Source:NCBI gene;Acc:100144420]	1.194507062	7.15E-08	8.83E-07
ENSMMUG00000039465		2.339342869	0.000560913	0.00273349
ENSMMUG00000044345	ral-GDS-related protein [Source:NCBI gene;Acc:710293]	-1.47250721	5.56E-09	8.53E-08
ENSMMUG00000031051	aspartate-rich protein 1 [Source:NCBI gene;Acc:107000598]	3.046349431	7.72E-10	1.38E-08
ENSMMUG00000020992	calcineurin binding protein 1 [Source:NCBI gene;Acc:700566]	1.559958555	0.00748955	0.025426341
ENSMMUG00000005980	glutathione hydrolase 5 proenzyme [Source:NCBI gene;Acc:720345]	0.761431457	0.00042411	0.002144449
ENSMMUG0000002288	glutathione hydrolase 1 proenzyme [Source:NCBI gene;Acc:700936]	0.576107834	0.003661738	0.013807298
ENSMMUG00000044782		0.514054912	0.005792363	0.020373477
ENSMMUG00000020999	gamma-glutamyltransferase 1 [Source:NCBI gene;Acc:707545]	0.335039069	0.001857942	0.007738942
		0.651794276	0.009720697	0.031676701
		0.991363009	1.60E-08	2.23E-07
		0.711408315	0.001051328	0.004721394

ENSMMUG0000000262	beta-ureidopropionase 1 [Source:VGNC Symbol;Acc:VGNC:79029]	1.343217533	0.000112623	0.000662567
ENSMMUG00000051040		0.915768943	0.016084989	0.047915468
ENSMMUG00000060794		0.384219649	0.013601583	0.041802581
ENSMMUG00000049542		1.667477399	2.71E-07	2.99E-06
ENSMMUG00000023622	BCR activator of RhoGEF and GTPase [Source:NCBI gene;Acc:709258]	1.501200778	7.78E-07	7.66E-06
ENSMMUG00000014641		0.394707626	0.000349869	0.001802924
ENSMMUG00000020092		0.602479993	0.003154746	0.012142055
ENSMMUG00000054655	immunoglobulin lambda variable 3-10 [Source:HGNC Symbol;Acc:HGNC:5897]	1.347642249	3.69E-06	3.11E-05
ENSMMUG00000056950		1.063228281	2.86E-14	1.09E-12
ENSMMUG00000047015	ral-GDS-related protein-like [Source:NCBI gene;Acc:106995524]	1.026008613	0.000140439	0.00080854
ENSMMUG00000018798	stromal cell derived factor 2 like 1 [Source:NCBI gene;Acc:697928]	0.615583435	0.000246324	0.001328196
ENSMMUG00000018531	peptidylprolyl isomerase like 2 [Source:VGNC Symbol;Acc:VGNC:76239]	0.387794298	0.00567556	0.020040226
ENSMMUG00000018823	transmembrane protein 191C [Source:NCBI gene;Acc:697070]	1.840898837	0.0037959	0.014216542
ENSMMUG00000056022		0.627366404	0.000881901	0.004068247
ENSMMUG00000062755		1.27621812	0.000165087	0.000931626
ENSMMUG00000049130		2.347658076	1.79E-37	9.32E-35
ENSMMUG00000063914		2.487396061	5.04E-52	1.47E-48
ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]	2.422158818	9.68E-19	6.45E-17
ENSMMUG00000017171	scavenger receptor class F member 2 [Source:VGNC Symbol;Acc:VGNC:77058]	0.993601806	0.004400361	0.016100691
ENSMMUG00000011547	reticulon 4 receptor [Source:VGNC Symbol;Acc:VGNC:77047]	0.548121353	0.014450041	0.043908914
ENSMMUG00000021904	cell division cycle 45 [Source:VGNC Symbol;Acc:VGNC:70800]	0.758515743	0.000102646	0.000610292
ENSMMUG00000031106	ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]	0.793478967	9.53E-10	1.67E-08
ENSMMUG00000009650	HIR histone cell cycle regulation defective homolog A (<i>S. cerevisiae</i>) [Source:NCBI gene;Acc:719142]	0.260864987	0.011550077	0.036440787
ENSMMUG00000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]	1.425895182	9.10E-10	1.60E-08
ENSMMUG00000019925	DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]	1.216336192	1.59E-09	2.68E-08
ENSMMUG00000062702		1.409990486	0.001429941	0.006157302
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	1.87852032	2.51E-07	2.79E-06
ENSMMUG00000021476	BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]	2.539124619	2.39E-08	3.22E-07
ENSMMUG00000058916		2.635137871	9.95E-15	3.95E-13
ENSMMUG00000021477	ATPase H ⁺ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]	2.624318792	3.78E-08	4.92E-07
ENSMMUG00000031121	solute carrier family 25 member 18 [Source:VGNC Symbol;Acc:VGNC:77434]	1.293420743	7.55E-06	5.92E-05
ENSMMUG00000006731	CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]	1.990272837	1.29E-13	4.28E-12
ENSMMUG00000059302	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.820344824	0.000162233	0.000917488
ENSMMUG00000049841	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.743442012	0.000334763	0.001733068
ENSMMUG00000009953	ninein like [Source:VGNC Symbol;Acc:VGNC:75273]	1.694876714	1.59E-07	1.85E-06
ENSMMUG00000002397	GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]	1.866730761	5.73E-10	1.06E-08
ENSMMUG00000059374		2.195973423	9.39E-11	1.98E-09
ENSMMUG00000009201	abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]	1.555315463	3.80E-07	4.06E-06
ENSMMUG00000060399	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.308114519	0.001929167	0.008001235
ENSMMUG00000009199	glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]	1.671666169	8.48E-08	1.03E-06
ENSMMUG00000052572		1.484335571	0.003446388	0.013098078
ENSMMUG00000058095	visual system homeobox 1 [Source:NCBI gene;Acc:715973]	1.663067587	0.004000717	0.014847696
ENSMMUG00000052227		1.454080839	0.002682996	0.010529889
ENSMMUG00000020597	acyl-CoA synthetase short chain family member 1 [Source:VGNC Symbol;Acc:VGNC:69416]	1.070332006	0.002490534	0.00992731
ENSMMUG00000061222	adipocyte plasma membrane associated protein [Source:NCBI gene;Acc:704948]	0.99714412	0.000914359	0.004195721

ENSMMUG00000049391		2.286780225	0.000459154	0.002298457
ENSMMUG00000042668	cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]	0.885796666	0.0015314	0.006538022
ENSMMUG00000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]	1.136208813	2.61E-08	3.49E-07
ENSMMUG00000010114	Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]	1.069542201	7.25E-05	0.000448968
ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]	1.070760776	4.64E-05	0.000304623
ENSMMUG00000012354	NADH:ubiquinone oxidoreductase complex assembly factor 5 [Source:VGNC Symbol;Acc:VGNC:74964]	1.036014386	0.012467109	0.03887481
ENSMMUG00000062485	ESF1 nucleolar pre-rRNA processing protein homolog [Source:NCBI gene;Acc:694159]	0.941845129	0.000233166	0.001264282
ENSMMUG00000006519	taspase 1 [Source:VGNC Symbol;Acc:VGNC:78129]	2.380880497	0.005260697	0.018762207
ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]	3.242505257	2.01E-13	6.45E-12
ENSMMUG00000015923	ankyrin repeat and EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69615]	0.908284951	0.00096909	0.004405376
ENSMMUG00000021137	thioredoxin related transmembrane protein 4 [Source:VGNC Symbol;Acc:VGNC:79484]	1.687862465	6.95E-05	0.000432152
ENSMMUG00000055897		1.462306795	1.93E-15	8.72E-14
ENSMMUG00000057687		1.699860793	4.66E-14	1.71E-12
ENSMMUG00000064554	leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]	2.283099332	2.63E-07	2.91E-06
ENSMMUG00000013740	minichromosome maintenance 8 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:74516]	2.485315761	6.90E-11	1.49E-09
ENSMMUG00000056093	shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]	0.864323389	1.34E-05	9.95E-05
ENSMMUG00000064391		1.147298476	2.38E-07	2.66E-06
ENSMMUG00000065232		2.377182181	0.003445558	0.013098078
ENSMMUG00000013261	CDP-diacylglycerol synthase 2 [Source:VGNC Symbol;Acc:VGNC:70995]	-1.01761497	0.015508064	0.046540199
ENSMMUG00000020004	Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]	0.758118532	0.000414996	0.002100556
ENSMMUG00000020912	spermine oxidase [Source:NCBI gene;Acc:718761]	0.685277978	0.004386871	0.016059416
ENSMMUG00000022070	sialic acid binding Ig like lectin 1 [Source:VGNC Symbol;Acc:VGNC:77220]	0.390070931	0.000452041	0.002269886
ENSMMUG00000022076	ADAM metalloproteinase domain 33 [Source:VGNC Symbol;Acc:VGNC:69409]	0.628911247	0.007054091	0.024066021
ENSMMUG00000063747		1.065106561	2.21E-05	0.000155834
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	1.534277977	6.59E-11	1.43E-09
ENSMMUG00000002982	FAST kinase domains 5 [Source:NCBI gene;Acc:100498658]	0.688546108	3.78E-05	0.000252419
ENSMMUG00000010678	oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]	1.171542647	0.013176041	0.040683965
ENSMMUG00000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	2.153466058	1.06E-11	2.61E-10
ENSMMUG00000005878	protein tyrosine phosphatase receptor type A [Source:VGNC Symbol;Acc:VGNC:76610]	0.381104427	0.001561908	0.00665654
ENSMMUG00000005204	VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]	2.151397484	4.58E-08	5.85E-07
ENSMMUG00000005200	PC-esterase domain containing 1A [Source:VGNC Symbol;Acc:VGNC:75622]	3.431744646	0.000329461	0.001709268
ENSMMUG00000021332	carboxypeptidase X, M14 family member 1 [Source:VGNC Symbol;Acc:VGNC:71413]	2.878017732	0.016871407	0.049835826
ENSMMUG00000021331	EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]	3.396271355	1.22E-06	1.15E-05
ENSMMUG00000061433		-0.83464771	6.61E-05	0.000413385
ENSMMUG00000013889	transmembrane channel like 2 [Source:VGNC Symbol;Acc:VGNC:79039]	2.533693883	0.002686895	0.010542347
ENSMMUG00000010050	small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]	2.319566036	4.32E-06	3.58E-05
ENSMMUG00000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	1.974519444	7.79E-12	1.97E-10

ENSMMUG00000015994	NSFL1 cofactor [Source:VGNC Symbol;Acc:VGNC:75407]	2.831752651	0.005084713	0.018232972
ENSMMUG00000018165	syndecan binding protein 2 [Source:VGNC Symbol;Acc:VGNC:77017]	-1.65539273	0.002290571	0.009262319
ENSMMUG00000004711	transmembrane protein 74B [Source:VGNC Symbol;Acc:VGNC:78990]	1.668360469	0.012582036	0.039157579
ENSMMUG00000004709	proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]	1.461648677	0.003279219	0.012567889
ENSMMUG00000031223	R-spondin 4 [Source:VGNC Symbol;Acc:VGNC:77023]	3.301358661	0.015241333	0.045862815
ENSMMUG00000047879	family with sequence similarity 110 member A [Source:NCBI gene;Acc:717055]	1.384153336	0.003160471	0.012157652
ENSMMUG00000021670	solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]	1.910578626	6.35E-15	2.62E-13
ENSMMUG00000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	2.963088724	1.77E-13	5.74E-12
ENSMMUG00000031224	casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]	1.019871514	1.12E-06	1.06E-05
ENSMMUG00000004461	TBC1 domain family member 20 [Source:VGNC Symbol;Acc:VGNC:78132]	0.384050502	0.000633167	0.003038741
ENSMMUG00000026836	Y RNA [Source:RFAM;Acc:RF00019]	1.500637568	5.23E-05	0.00033721
ENSMMUG00000012601	RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]	0.643728614	3.57E-05	0.000239689
ENSMMUG00000038935	zinc finger CCHC-type containing 3 [Source:NCBI gene;Acc:714477]	1.070542504	0.000620685	0.002987716
ENSMMUG00000017286	chromosome 10 C20orf96 homolog [Source:VGNC Symbol;Acc:VGNC:70324]	0.939220084	0.008147188	0.027245381
ENSMMUG00000061092	defensin beta 125 [Source:HGNC Symbol;Acc:HGNC:18105]	0.496562228	0.0031803	0.012217766
ENSMMUG00000005116	defensin beta 124 [Source:VGNC Symbol;Acc:VGNC:71655]	0.456182378	0.016631239	0.049330405
ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	1.226755178	1.69E-12	4.74E-11
ENSMMUG00000005119	histocompatibility minor 13 [Source:VGNC Symbol;Acc:VGNC:81418]	2.682874969	0.000130509	0.000758872
ENSMMUG00000051112	p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]	1.313736898	0.000296782	0.001560897
ENSMMUG00000000117	HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]	1.511561917	2.86E-05	0.000196418
ENSMMUG00000008979	protein O-fucosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76030]	0.892848545	0.001206004	0.005315852
ENSMMUG00000009414	Sad1 and UNC84 domain containing 5 [Source:VGNC Symbol;Acc:VGNC:78133]	1.121159064	0.000268379	0.001433293
ENSMMUG00000053133	BPI fold containing family B member 2 [Source:NCBI gene;Acc:710915]	0.833421899	5.89E-05	0.000374254
ENSMMUG00000020671	BPI fold containing family B member 3 [Source:VGNC Symbol;Acc:VGNC:70320]	-0.37464472	0.005597473	0.019822283
ENSMMUG00000012912	itchy E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:73589]	0.297798928	0.003771844	0.014146363
ENSMMUG00000055449	tumor protein p53 inducible nuclear protein 2 [Source:NCBI gene;Acc:707113]	-2.74952294	0.001899032	0.007892003
ENSMMUG00000017931	gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]	1.307557823	0.000217823	0.001195355
ENSMMUG00000017932	acyl-CoA synthetase short chain family member 2 [Source:VGNC Symbol;Acc:VGNC:69410]	-2.29466185	0.001684497	0.007120537
ENSMMUG00000000229	transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]	2.089119732	0.000477591	0.002375405
ENSMMUG00000057979	growth differentiation factor 5 [Source:NCBI gene;Acc:705432]	0.716550497	1.99E-07	2.26E-06
ENSMMUG00000031274	GDF5 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:33435]	0.644726511	0.00848849	0.028237342
ENSMMUG00000031284	RNA binding motif protein 39 [Source:NCBI gene;Acc:704198]	2.83677148	0.003001519	0.011632386
ENSMMUG00000010633	PHD finger protein 20 [Source:VGNC Symbol;Acc:VGNC:75807]	0.477781526	1.10E-06	1.05E-05

ENSMMUG00000020690	erythrocyte membrane protein band 4.1 like 1 [Source:VGNC Symbol;Acc:VGNC:72231]	-	0.550032615	0.003409085	0.012990266
ENSMMUG00000020691	AAR2 splicing factor [Source:VGNC Symbol;Acc:VGNC:69412]	-	0.726033716	0.000325785	0.001693222
ENSMMUG00000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	-	1.299609675	2.41E-12	6.62E-11
ENSMMUG00000059897	myosin light chain 9 [Source:NCBI gene;Acc:709784]	-	1.195413211	3.91E-05	0.000260777
ENSMMUG00000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	-	1.232195251	6.26E-14	2.22E-12
ENSMMUG00000056945		-	1.21513177	2.60E-13	8.19E-12
ENSMMUG00000008200	Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]	-	1.378627658	8.37E-06	6.49E-05
ENSMMUG00000014380	maestro heat like repeat family member 8 [Source:VGNC Symbol;Acc:VGNC:74774]	-	0.680283808	0.0006388	0.00306274
ENSMMUG00000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	-	1.230081334	2.31E-07	2.59E-06
ENSMMUG00000049410	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.265147503	0.012712147	0.039467558
ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	-	1.441928238	1.91E-24	2.15E-22
ENSMMUG00000020172	KIAA1755 [Source:VGNC Symbol;Acc:VGNC:73942]	-	0.427520825	0.013678489	0.041988388
ENSMMUG00000020173	bactericidal permeability increasing protein [Source:VGNC Symbol;Acc:VGNC:70277]	-	0.371055467	0.007898319	0.026524503
ENSMMUG00000017350	Ral GTPase activating protein non-catalytic beta subunit [Source:VGNC Symbol;Acc:VGNC:76562]	-	0.753008618	0.001932198	0.008011513
ENSMMUG00000031309	adipogenin [Source:VGNC Symbol;Acc:VGNC:84540]	-	0.537203612	0.008805157	0.029170594
ENSMMUG00000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	-	1.877026677	4.80E-13	1.46E-11
ENSMMUG00000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	-	2.755763785	1.65E-13	5.40E-12
ENSMMUG00000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	-	2.503792158	8.95E-19	6.02E-17
ENSMMUG00000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	-	2.304619968	3.87E-19	2.70E-17
ENSMMUG00000002810	TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]	-	1.23014668	9.59E-08	1.15E-06
ENSMMUG00000022865	junctophilin 2 [Source:NCBI gene;Acc:694158]	-	4.722690129	1.62E-07	1.88E-06
ENSMMUG00000006464	hepatocyte nuclear factor 4 alpha [Source:VGNC Symbol;Acc:VGNC:73492]	-	0.706486868	0.002170321	0.008869821
ENSMMUG00000063590		-	1.248490399	3.21E-07	3.49E-06
ENSMMUG00000059766		-	0.343093467	0.014266403	0.043488299
ENSMMUG00000045256	cellular communication network factor 5 [Source:NCBI gene;Acc:717872]	-	1.269006181	0.002178287	0.008887387
ENSMMUG00000003402	matrilin 4 [Source:NCBI gene;Acc:717652]	-	1.715899277	0.002378258	0.009542573
ENSMMUG00000003806	epididymal peptidase inhibitor [Source:NCBI gene;Acc:574162]	-	0.674615994	0.015722959	0.047058812
ENSMMUG00000021022	deoxynucleotidyltransferase terminal interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:71845]	-	1.178262163	0.000293182	0.001544755
ENSMMUG00000052867		-	1.141640252	0.001230998	0.005411253
ENSMMUG00000023515	sorting nexin family member 21 [Source:VGNC Symbol;Acc:VGNC:77716]	-	0.484209197	0.006790016	0.023274336
ENSMMUG00000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	-	1.70003497	2.17E-11	5.10E-10
ENSMMUG00000042855	zinc finger SWIM-type containing 1 [Source:NCBI gene;Acc:717180]	-	1.230791872	0.000272677	0.001454111
ENSMMUG00000009957	spermatogenesis associated 25 [Source:VGNC Symbol;Acc:VGNC:77928]	-	1.714306228	0.007950637	0.026673992
ENSMMUG00000058326	neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]	-	3.02978671	7.62E-07	7.53E-06
ENSMMUG00000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	-	1.956660145	4.51E-17	2.44E-15
ENSMMUG00000013697	PDX1 C-terminal inhibiting factor 1 [Source:VGNC Symbol;Acc:VGNC:75621]	-	0.365783183	0.005492162	0.019477813
ENSMMUG00000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	-	3.312425575	1.08E-16	5.66E-15
ENSMMUG00000016553	solute carrier family 12 member 5 [Source:VGNC Symbol;Acc:VGNC:77471]	-	4.298376077	0.000591443	0.002863073
ENSMMUG00000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]	-	1.550713203	5.42E-15	2.28E-13
ENSMMUG00000065008		-	0.940957589	0.005177603	0.018506716
ENSMMUG00000012020	nuclear receptor coactivator 3 [Source:VGNC Symbol;Acc:VGNC:75147]	-	0.588016999	0.000235817	0.001276749

ENSMMUG00000012029	sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]	1.062104207	1.65E-06	1.51E-05
ENSMMUG00000060780		0.461156457	0.000181118	0.001011882
ENSMMUG00000038447		0.942076133	0.000118677	0.000695931
ENSMMUG00000058754		3.075569288	0.002208044	0.008993648
ENSMMUG00000019635	ADP ribosylation factor guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:69836]	0.388443451	0.005199103	0.018574431
ENSMMUG00000023621	DEAD-box helicase 27 [Source:NCBI gene;Acc:703852]	3.186468553	0.002522392	0.010037782
ENSMMUG00000002124	beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]	1.389786487	7.86E-07	7.73E-06
ENSMMUG00000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	1.394501872	6.19E-15	2.56E-13
ENSMMUG00000028471	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	1.051217442	0.005003063	0.017966779
ENSMMUG00000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	1.453363262	9.84E-09	1.44E-07
ENSMMUG00000065129		1.947894035	0.00769415	0.025987913
ENSMMUG00000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	1.429337794	3.01E-14	1.14E-12
ENSMMUG00000002761	activity dependent neuroprotector homeobox [Source:VGNC Symbol;Acc:VGNC:69614]	0.585706554	6.24E-06	5.00E-05
ENSMMUG00000002758	molybdenum cofactor synthesis 3 [Source:VGNC Symbol;Acc:VGNC:74772]	-2.16243121	0.004099146	0.01513571
ENSMMUG00000012657	nuclear factor of activated T cells 2 [Source:VGNC Symbol;Acc:VGNC:75327]	1.309924201	0.00139392	0.006029225
ENSMMUG00000018846	ZFP64 zinc finger protein [Source:VGNC Symbol;Acc:VGNC:78994]	0.443194269	0.000319182	0.001663062
ENSMMUG00000013035	teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]	1.020218766	0.000122375	0.000714443
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	2.097192944	6.65E-14	2.34E-12
ENSMMUG00000057302		2.328029166	2.28E-05	0.000160346
ENSMMUG00000052326	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	3.057692042	0.004726214	0.017099297
ENSMMUG00000004074	bone morphogenetic protein 7 [Source:VGNC Symbol;Acc:VGNC:70266]	0.859362154	0.000883408	0.004070396
ENSMMUG00000031391	RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]	3.136922693	9.49E-15	3.79E-13
ENSMMUG00000022586	phosphoenolpyruvate carboxykinase 1 [Source:VGNC Symbol;Acc:VGNC:75779]	3.894878029	0.001574752	0.006705381
ENSMMUG00000022589	prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]	-0.90967488	0.000297661	0.001563821
ENSMMUG00000004560	crystallin lambda 1 [Source:VGNC Symbol;Acc:VGNC:71433]	0.427406547	0.011161643	0.035465967
ENSMMUG00000016475	M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]	0.691245435	7.01E-06	5.56E-05
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	1.023092191	2.13E-07	2.41E-06
ENSMMUG00000014610	ring finger protein 17 [Source:NCBI gene;Acc:708198]	0.851578883	2.02E-06	1.81E-05
ENSMMUG00000018419	myotubularin related protein 6 [Source:VGNC Symbol;Acc:VGNC:75075]	0.728172321	3.08E-06	2.65E-05
ENSMMUG00000008520	ATPase phospholipid transporting 8A2 [Source:VGNC Symbol;Acc:VGNC:70062]	0.366984144	0.002889629	0.011261807
ENSMMUG00000057852		0.838574884	0.000199242	0.001100446
ENSMMUG00000057481		2.498442607	0.003871235	0.014444595
ENSMMUG00000058786	ligand of numb-protein X 2 [Source:NCBI gene;Acc:710660]	0.552150429	0.004009512	0.014873564
ENSMMUG00000052070	caudal type homeobox 2 [Source:NCBI gene;Acc:711094]	0.643366774	0.004678745	0.016944424
ENSMMUG00000016138	ureidoimidazoline (2-oxo-4-hydroxy-4-carboxy-5-) decarboxylase [Source:NCBI gene;Acc:721710]	1.562057224	0.001147833	0.00508721

ENSMMUG0000003771	ubiquitin like 3 [Source:VGNC Symbol;Acc:VGNC:78701]	-	0.912076739	0.010064806	0.032593469
ENSMMUG0000005365		-	1.489309989	7.58E-05	0.000468191
ENSMMUG0000005572	arachidonate 5-lipoxygenase activating protein [Source:VGNC Symbol;Acc:VGNC:69799]	-	0.862255866	0.00045903	0.002298457
ENSMMUG00000013707	heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]	-	0.758953933	1.59E-06	1.46E-05
ENSMMUG00000013713	beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]	-	1.75391169	3.16E-07	3.44E-06
ENSMMUG00000007192	FRY microtubule binding protein [Source:NCBI gene;Acc:713688]	-	1.213007121	0.000278807	0.001484079
ENSMMUG00000038997	zygote arrest 1 like [Source:NCBI gene;Acc:100427970]	-	3.083811167	7.99E-07	7.85E-06
ENSMMUG00000007197	BRCA2 DNA repair associated [Source:VGNC Symbol;Acc:VGNC:70279]	-	0.925545761	9.00E-06	6.93E-05
ENSMMUG00000007198	NEDD4 binding protein 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75017]	-	1.617908664	0.000226881	0.00123573
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	-	1.680688468	2.73E-14	1.04E-12
ENSMMUG00000049600		-	1.22330491	0.003911744	0.014565835
ENSMMUG00000055811		-	1.766872397	2.96E-09	4.73E-08
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	-	1.524038845	2.18E-11	5.13E-10
ENSMMUG00000025050	Y RNA [Source:RFAM;Acc:RF00019]	-	2.189502766	5.82E-05	0.000370362
ENSMMUG00000058110		-	1.480467975	3.41E-07	3.69E-06
ENSMMUG00000017052	StAR related lipid transfer domain containing 13 [Source:VGNC Symbol;Acc:VGNC:77962]	-	0.437084265	0.000367144	0.001879285
ENSMMUG00000054254		-	3.057943898	0.001863252	0.007752173
ENSMMUG00000019831	neurobeachin [Source:NCBI gene;Acc:714386]	-	2.366985468	9.91E-09	1.45E-07
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	-	2.460870298	1.42E-25	1.89E-23
ENSMMUG00000060579		-	-2.07787144	0.00262262	0.010351622
ENSMMUG00000001172	spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]	-	2.102567923	3.96E-07	4.21E-06
ENSMMUG00000003585	ALG5 dolichyl-phosphate beta-glucosyltransferase [Source:VGNC Symbol;Acc:VGNC:69647]	-	0.908987801	3.02E-06	2.60E-05
ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	-	-0.81550373	1.68E-09	2.82E-08
ENSMMUG00000030786	transient receptor potential cation channel subfamily C member 4 [Source:NCBI gene;Acc:695636]	-	-0.41080701	0.001587378	0.006753209
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	-	1.280508506	2.33E-09	3.82E-08
ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	-	0.846162643	1.45E-08	2.05E-07
ENSMMUG00000052676		-	1.201806582	4.31E-11	9.50E-10
ENSMMUG00000011593	regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]	-	0.769181296	6.47E-05	0.000406069
ENSMMUG00000055161		-	-2.11130789	0.000224449	0.001224321
ENSMMUG00000023076	diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]	-	1.189578288	6.77E-05	0.000422024
ENSMMUG00000055887		-	1.536807994	4.43E-05	0.000292514
ENSMMUG00000023083	A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]	-	1.146502608	1.49E-05	0.000109106
ENSMMUG00000054971		-	1.492795693	0.015251203	0.045883017
ENSMMUG00000002330	ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]	-	2.835957844	1.22E-17	7.05E-16
ENSMMUG00000012636	potassium channel tetramerization domain containing 4 [Source:VGNC Symbol;Acc:VGNC:73892]	-	0.692324343	0.013043261	0.04032927
ENSMMUG00000011986	chibby family member 2 [Source:VGNC Symbol;Acc:VGNC:78029]	-	0.888675692	0.000870177	0.004023464

ENSMMUG00000017025	zinc finger CCCH-type containing 13 [Source:VGNC Symbol;Acc:VGNC:79248]	0.516450109	0.000731287	0.003449291
ENSMMUG00000065094		1.418423798	0.000815455	0.003793368
ENSMMUG00000059778		1.944106284	1.37E-05	0.000101519
ENSMMUG00000063377	cysteinyl leukotriene receptor 2 [Source:NCBI gene;Acc:705450]	1.080702309	0.003589481	0.013570946
ENSMMUG00000023756	fibronectin type III domain containing 3A [Source:VGNC Symbol;Acc:VGNC:72539]	0.290342215	0.005343646	0.019020709
ENSMMUG00000010898	tripartite motif containing 13 [Source:VGNC Symbol;Acc:VGNC:79972]	0.290049949	0.012603824	0.039204125
ENSMMUG00000016530	NIMA related kinase 3 [Source:VGNC Symbol;Acc:VGNC:75309]	1.942960801	0.007397797	0.02515597
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	0.88464671	2.38E-06	2.09E-05
ENSMMUG0000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	0.812931022	5.90E-05	0.000374474
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	0.809215082	5.43E-06	4.41E-05
ENSMMUG00000016404	chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]	2.192274581	0.001806473	0.00755921
ENSMMUG00000002657	olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]	1.543976588	7.20E-08	8.87E-07
ENSMMUG00000055156		0.770876144	0.011145853	0.035423538
ENSMMUG00000054675		-0.586572	0.014646115	0.044430421
ENSMMUG00000021197	TBC1 domain family member 4 [Source:VGNC Symbol;Acc:VGNC:78166]	1.454305907	0.000198422	0.001097171
ENSMMUG00000046375		1.122066617	0.000287417	0.001522104
ENSMMUG00000061846		0.397942989	0.007223618	0.024603969
ENSMMUG00000056466		0.382441769	0.012714217	0.039467558
ENSMMUG00000021459	MYC binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75011]	1.020418077	4.70E-05	0.000307313
ENSMMUG00000054625		-0.5088057	0.001358836	0.005896537
ENSMMUG00000054008		3.877674812	0.007119741	0.024278602
ENSMMUG00000054711		1.537555617	4.80E-11	1.05E-09
ENSMMUG00000022744	muscleblind like splicing regulator 2 [Source:VGNC Symbol;Acc:VGNC:74519]	0.481287073	0.000547992	0.002677701
ENSMMUG00000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	1.106808202	9.64E-25	1.13E-22
ENSMMUG00000009173	serine/threonine kinase 24 [Source:VGNC Symbol;Acc:VGNC:81583]	0.638637516	0.000204691	0.001127117
ENSMMUG00000001402	solute carrier family 15 member 1 [Source:VGNC Symbol;Acc:VGNC:77393]	2.840112992	0.000392377	0.001995096
ENSMMUG00000012332	UBA domain containing 2 [Source:NCBI gene;Acc:703484]	0.887380007	5.00E-10	9.35E-09
ENSMMUG00000060781	G protein-coupled receptor 18 [Source:NCBI gene;Acc:698714]	0.716215343	0.011087143	0.03527551
ENSMMUG00000012338	G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]	0.864973913	1.54E-06	1.43E-05
ENSMMUG00000019556	transmembrane 9 superfamily member 2 [Source:VGNC Symbol;Acc:VGNC:78568]	0.529652887	4.06E-05	0.000270086
ENSMMUG00000004493	propionyl-CoA carboxylase subunit alpha [Source:VGNC Symbol;Acc:VGNC:75773]	1.081111489	9.37E-05	0.000563371
ENSMMUG00000050578		1.027374539	0.00765059	0.025870348
ENSMMUG00000015856	sodium leak channel, non-selective [Source:VGNC Symbol;Acc:VGNC:74991]	1.201032802	0.009866195	0.032070606
ENSMMUG00000002875	fibroblast growth factor 14 [Source:VGNC Symbol;Acc:VGNC:72645]	3.438800676	0.011998449	0.037631381
ENSMMUG00000052642	protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]	1.779111684	5.63E-06	4.56E-05
ENSMMUG00000000350	basic, immunoglobulin-like variable motif containing [Source:NCBI gene;Acc:100426213]	0.485534764	0.012887679	0.03994631

ENSMMUG0000000353	putative methyltransferase-like protein 21E pseudogene [Source:NCBI gene;Acc:707949]	-	0.532623268	0.010411672	0.033522908
ENSMMUG00000054803			0.876510294	0.001318724	0.005748213
ENSMMUG00000022282	collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]		4.554277843	1.07E-06	1.03E-05
ENSMMUG00000022818	inhibitor of growth family member 1 [Source:VGNC Symbol;Acc:VGNC:73742]		3.851974685	0.000259522	0.001390593
ENSMMUG00000064401			3.339996312	6.28E-05	0.00039603
ENSMMUG00000018929	ankyrin repeat domain 10 [Source:VGNC Symbol;Acc:VGNC:69646]		0.401720817	0.001046435	0.004704151
ENSMMUG00000013138	Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]		0.992469149	1.43E-08	2.03E-07
ENSMMUG00000056306			1.259122631	3.03E-08	3.99E-07
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]		1.292577829	1.87E-11	4.46E-10
ENSMMUG00000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]		1.262564017	7.37E-11	1.58E-09
ENSMMUG00000016740	defective in cullin neddylation 1 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:71684]		-0.38634095	2.22E-05	0.000156944
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]		1.803552153	3.49E-15	1.51E-13
ENSMMUG00000050639	transmembrane protein 255B [Source:NCBI gene;Acc:715939]		0.515544327	0.004947973	0.017808538
ENSMMUG00000054800	chromosome 17 C13orf46 homolog [Source:NCBI gene;Acc:106994405]		0.434683982	0.007734543	0.026069338
ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]		0.950469936	6.40E-09	9.73E-08
ENSMMUG00000005222	double C2 domain beta [Source:VGNC Symbol;Acc:VGNC:71964]		2.072551305	0.010319094	0.033268724
ENSMMUG00000003042	VPS53 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:79522]		0.88614668	0.004050799	0.014991463
ENSMMUG00000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]		1.561634136	3.29E-13	1.02E-11
ENSMMUG00000030401	gem nuclear organelle associated protein 4 [Source:VGNC Symbol;Acc:VGNC:72723]		0.720060315	0.001422473	0.006130594
ENSMMUG00000011417	glyoxalase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72939]		0.573308114	2.99E-05	0.00020424
ENSMMUG00000008130	ABR activator of RhoGEF and GTPase [Source:VGNC Symbol;Acc:VGNC:69589]		0.610518642	1.38E-09	2.36E-08
ENSMMUG00000002371	myosin IC [Source:VGNC Symbol;Acc:VGNC:75112]		0.556249227	0.000769975	0.003606032
ENSMMUG00000055241			0.741580245	4.15E-06	3.46E-05
ENSMMUG00000040268	phosphatidylinositol transfer protein alpha [Source:NCBI gene;Acc:721228]		0.687896051	0.002194918	0.008947705
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]		0.972655142	7.53E-06	5.91E-05
ENSMMUG00000039266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		1.461403247	0.000267212	0.001428139
ENSMMUG00000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]		1.738621902	2.89E-09	4.63E-08
ENSMMUG00000002377	Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]		1.371322591	5.19E-05	0.000335055
ENSMMUG00000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]		1.070405671	7.12E-09	1.07E-07
ENSMMUG00000002380	WD repeat domain 81 [Source:NCBI gene;Acc:721254]		0.361787581	0.005278054	0.018814878
ENSMMUG00000002382	serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]		1.014491357	2.74E-05	0.000189075
ENSMMUG00000017518	small G protein signaling modulator 2 [Source:NCBI gene;Acc:703543]		0.437417519	0.002229051	0.009062805
ENSMMUG00000053298			0.865534033	8.54E-06	6.61E-05
ENSMMUG00000020527	clustered mitochondria homolog [Source:VGNC Symbol;Acc:VGNC:71370]		0.672506416	0.000201965	0.001114217
ENSMMUG00000022989	RAP1 GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:76561]		0.908616933	1.47E-05	0.000108135
ENSMMUG00000061370			1.633090029	0.01682958	0.049756274
ENSMMUG00000030389			1.54218667	1.27E-06	1.20E-05
ENSMMUG00000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]		1.330814575	2.07E-11	4.91E-10
ENSMMUG00000012825	olfactory receptor 1A2 [Source:NCBI gene;Acc:100429763]		1.344966261	0.002463448	0.009840929
ENSMMUG00000042407			1.183007051	0.000671271	0.003204686
ENSMMUG00000055048			1.120256308	6.96E-12	1.78E-10

ENSMMUG0000008556	integrin subunit alpha E [Source:NCBI gene;Acc:721483]	0.545370501	4.99E-05	0.000324117
ENSMMUG00000063482		-	-	-
ENSMMUG00000057632		0.836794353	0.00329879	0.012639058
		3.946149061	2.52E-26	3.70E-24
		-	-	-
ENSMMUG00000058966		0.871676119	0.000473019	0.002355697
ENSMMUG0000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]	0.812069969	6.32E-08	7.86E-07
ENSMMUG00000060937	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.561343433	0.007704687	0.026016966
ENSMMUG00000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]	-1.42888285	7.34E-08	9.03E-07
ENSMMUG00000017654	arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]	1.462974448	0.000708913	0.003356331
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]	1.076723194	1.30E-09	2.24E-08
ENSMMUG00000061951		1.326339481	4.24E-05	0.000281041
ENSMMUG0000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]	1.878412135	5.54E-14	1.98E-12
ENSMMUG00000012040	enolase 3 [Source:VGNC Symbol;Acc:VGNC:72220]	2.355630088	0.007804649	0.026250852
ENSMMUG00000009176	calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]	0.719830323	0.000162266	0.000917488
ENSMMUG00000011344	solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]	3.235161186	1.09E-06	1.04E-05
ENSMMUG00000018648	zinc finger protein 594 [Source:NCBI gene;Acc:711492]	0.720101196	0.001873477	0.007792487
		-	-	-
ENSMMUG00000058586		0.998265617	0.012671051	0.039350368
ENSMMUG00000006592	complement C1q binding protein [Source:NCBI gene;Acc:711817]	-0.46516478	0.014040984	0.042917111
ENSMMUG00000006594	DEAH-box helicase 33 [Source:VGNC Symbol;Acc:VGNC:71633]	-0.47779755	0.000250478	0.001347096
		-	-	-
ENSMMUG00000006599	derlin 2 [Source:VGNC Symbol;Acc:VGNC:71654]	0.444646734	0.00088142	0.004067684
		-	-	-
ENSMMUG00000046195	MIS12 kinetochore complex component [Source:NCBI gene;Acc:712202]	0.515718119	0.003769876	0.01414263
		-	-	-
ENSMMUG00000043771	uncharacterized LOC712349 [Source:NCBI gene;Acc:712349]	0.969929261	0.004435824	0.016210049
		-	-	-
ENSMMUG00000030453	NLR family pyrin domain containing 1 [Source:NCBI gene;Acc:721648]	0.741746963	1.90E-08	2.61E-07
ENSMMUG00000064520		4.078936156	3.23E-07	3.51E-06
ENSMMUG00000010536	discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]	0.948690568	1.72E-13	5.61E-12
		-	-	-
ENSMMUG00000052091	dishevelled segment polarity protein 2 [Source:NCBI gene;Acc:714381]	0.985230804	0.00876816	0.029081164
		-	-	-
ENSMMUG00000010543	PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]	2.856718052	1.69E-06	1.54E-05
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]	0.846624699	3.58E-14	1.35E-12
		-	-	-
ENSMMUG00000006327	tumor necrosis factor (ligand) superfamily, member 12 [Source:NCBI gene;Acc:100551506]	0.580816847	1.23E-08	1.77E-07
ENSMMUG00000006332	SUMO specific peptidase 3 [Source:NCBI gene;Acc:715884]	0.669184687	0.000964194	0.004387972
ENSMMUG00000013501	CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]	-2.29039372	2.01E-07	2.28E-06
		-	-	-
ENSMMUG00000013503	mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]	1.618185838	1.96E-06	1.75E-05
		-	-	-
ENSMMUG00000013510	FMR1 autosomal homolog 2 [Source:NCBI gene;Acc:721889]	0.582777336	0.009442964	0.030924165
		-	-	-
ENSMMUG00000013513	sex hormone binding globulin [Source:VGNC Symbol;Acc:VGNC:77208]	1.150539428	4.01E-05	0.000266995
ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]	-1.07721681	1.00E-06	9.68E-06
ENSMMUG00000008637	WD repeat containing antisense to TP53 [Source:VGNC Symbol;Acc:VGNC:79508]	0.807428703	0.001155478	0.005113832
ENSMMUG00000048204	ephrin B3 [Source:NCBI gene;Acc:716257]	1.216863522	5.69E-07	5.83E-06
		-	-	-
ENSMMUG00000008173	lysine demethylase 6B [Source:VGNC Symbol;Acc:VGNC:73923]	2.048610383	0.006750056	0.023175618
		-	-	-
ENSMMUG00000063668	cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]	1.335757057	1.70E-05	0.000122992
ENSMMUG00000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]	1.182468396	1.57E-07	1.83E-06

ENSMMUG00000065208		0.920230099	0.002243128	0.009108477
ENSMMUG00000020329	arachidonate 12-lipoxygenase, 12R type [Source:NCBI gene;Acc:721936]	0.891241363	0.01679891	0.049694239
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]	1.800255751	2.00E-35	8.79E-33
ENSMMUG00000021798	period circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:75942]	0.484719437	0.008580228	0.028535982
ENSMMUG00000021938	nudE neurodevelopment protein 1 like 1 [Source:VGNC Symbol;Acc:VGNC:74982]	0.757570638	6.72E-05	0.000419255
ENSMMUG00000055290	netrin 1 [Source:NCBI gene;Acc:717645]	1.001507667	6.09E-07	6.20E-06
ENSMMUG00000051001		2.514274597	0.002049295	0.008439264
ENSMMUG00000060042		-0.94551643	0.002380035	0.009547068
ENSMMUG00000016723	zinc finger protein 287 [Source:NCBI gene;Acc:695524]	1.285972883	0.000122915	0.00071731
ENSMMUG00000064698		1.184476086	0.012612673	0.039210956
ENSMMUG00000013345	folliculin [Source:NCBI gene;Acc:698082]	2.245506456	0.001302285	0.005681667
ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	2.359995305	7.50E-06	5.90E-05
ENSMMUG00000038569	5',3'-nucleotidase, mitochondrial [Source:NCBI gene;Acc:698591]	0.860625569	0.000390171	0.001984573
ENSMMUG00000006491	mediator complex subunit 9 [Source:VGNC Symbol;Acc:VGNC:74577]	0.885017536	0.000337982	0.001747865
ENSMMUG00000006493	ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]	-1.03998757	1.89E-09	3.14E-08
ENSMMUG00000023375	sterol regulatory element binding transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:77880]	0.727339636	0.000998033	0.00452129
ENSMMUG00000003349	target of myb1 like 2 membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:78617]	-1.59299704	0.010031589	0.032514873
ENSMMUG00000002942	dynein regulatory complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:71906]	1.168376274	0.010844537	0.034644029
ENSMMUG00000005900	GID complex subunit 4 homolog [Source:NCBI gene;Acc:699842]	1.119623958	0.002231585	0.009069207
ENSMMUG00000021409	developmentally regulated GTP binding protein 2 [Source:VGNC Symbol;Acc:VGNC:71993]	1.109732359	2.56E-05	0.000178178
ENSMMUG00000018344	myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]	0.726006423	5.10E-07	5.29E-06
ENSMMUG00000056257		0.919669208	7.85E-05	0.000482254
ENSMMUG00000053675		0.971178888	4.15E-06	3.46E-05
ENSMMUG00000005323	phosphoribosyl pyrophosphate synthetase associated protein 2 [Source:VGNC Symbol;Acc:VGNC:76430]	0.555274235	1.36E-06	1.27E-05
ENSMMUG00000051798	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	3.502890223	0.001035153	0.004663161
ENSMMUG00000000140	epsin 2 [Source:VGNC Symbol;Acc:VGNC:72070]	0.660372344	0.010093624	0.032657692
ENSMMUG00000008536	mitogen-activated protein kinase 7 [Source:VGNC Symbol;Acc:VGNC:74648]	1.809632952	8.62E-05	0.000523237
ENSMMUG00000008538	microfibril associated protein 4 [Source:VGNC Symbol;Acc:VGNC:74710]	1.399809024	0.006456888	0.022284847
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	1.833604869	9.36E-06	7.19E-05
ENSMMUG00000051286		0.945786727	0.00283466	0.011071321
ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	1.637681434	1.45E-06	1.35E-05
ENSMMUG00000018579	sperm antigen with calponin homology and coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:78021]	0.436508781	0.001035775	0.004664516
ENSMMUG00000024170	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.034882357	7.29E-06	5.76E-05
ENSMMUG00000060502		1.319539582	5.32E-08	6.75E-07
ENSMMUG00000061335		1.290104154	1.73E-07	1.99E-06

ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	0.799070039	1.61E-05	0.000117074
ENSMMUG00000054784		0.738590376	0.000178791	0.000999762
ENSMMUG00000065113		0.626468177	0.009518967	0.031116982
ENSMMUG00000061698		0.424277593	0.000374359	0.001910837
		-		
ENSMMUG00000051341		0.745000411	0.00166845	0.007058864
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	1.417126803	1.57E-20	1.28E-18
		-		
ENSMMUG00000063312		0.914501463	2.12E-05	0.000150081
ENSMMUG00000054461	transmembrane protein 97 [Source:NCBI gene;Acc:707879]	-1.18418285	0.007975013	0.026731098
		-		
ENSMMUG00000019145	TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]	1.028088192	1.98E-05	0.000140948
		-		
ENSMMUG00000019146	DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]	0.770112148	0.000304591	0.001596768
		-		
ENSMMUG00000019148	vitronectin [Source:NCBI gene;Acc:708499]	1.087130339	9.02E-05	0.000545336
		-		
ENSMMUG00000012240	phosphatidylinositol glycan anchor biosynthesis class S [Source:VGNC Symbol;Acc:VGNC:75800]	0.550396502	0.006757408	0.023195381
ENSMMUG00000053611	stromal cell derived factor 2 [Source:NCBI gene;Acc:716189]	2.24623494	0.001522279	0.006504811
		-		
ENSMMUG00000004708	SPT6 homolog, histone chaperone and transcription elongation factor [Source:VGNC Symbol;Acc:VGNC:78057]	0.529365526	0.001084256	0.004842345
		-		
ENSMMUG00000007293	RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]	0.586985142	0.007176311	0.024465768
		-		
ENSMMUG00000026204	Small nucleolar RNA SNORD42 [Source:RFAM;Acc:RF00150]	0.477291266	0.014435105	0.043881874
		-		
ENSMMUG00000051743	TLC domain containing 1 [Source:NCBI gene;Acc:710391]	0.472338098	0.0133767	0.041216001
ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]	0.735988199	1.85E-05	0.00013274
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	0.91540698	5.05E-08	6.42E-07
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	0.913297936	3.16E-09	5.04E-08
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	0.913011793	2.70E-08	3.60E-07
ENSMMUG00000009938	myosin XVIII A [Source:VGNC Symbol;Acc:VGNC:75058]	0.505030992	4.88E-06	4.01E-05
ENSMMUG00000019667	TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]	1.277876132	0.000150883	0.000861167
ENSMMUG00000057447		4.528687715	7.05E-05	0.000437659
ENSMMUG00000014409	ankyrin repeat domain 13B [Source:VGNC Symbol;Acc:VGNC:69708]	0.756490967	0.001404814	0.006063472
ENSMMUG00000014413	slingshot protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:78018]	0.379184931	0.001092993	0.004870889
		-		
ENSMMUG00000060080	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.013757496	0.001784988	0.007484389
ENSMMUG00000037644	carboxypeptidase D [Source:NCBI gene;Acc:712407]	0.559540244	0.015005451	0.045303061
		-		
ENSMMUG00000023698	golgi SNAP receptor complex member 1 [Source:VGNC Symbol;Acc:VGNC:73110]	0.635322843	3.62E-06	3.06E-05
ENSMMUG00000001116	SUZ12 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:78144]	4.023639793	0.000114184	0.000671207
		-		
ENSMMUG00000014689	myosin ID [Source:VGNC Symbol;Acc:VGNC:75113]	0.764160688	0.001662739	0.0070388
ENSMMUG00000059292		0.669242581	6.18E-07	6.26E-06
ENSMMUG00000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	2.464293199	3.19E-18	1.96E-16
ENSMMUG00000002324		0.925223876	1.17E-07	1.39E-06
		-		
ENSMMUG00000009782	C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]	1.372593037	0.000285561	0.00151393
ENSMMUG00000006399	chaperonin containing TCP1 subunit 6B [Source:VGNC Symbol;Acc:VGNC:70748]	0.419706818	7.73E-07	7.63E-06
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	2.51012255	1.67E-09	2.81E-08
		-		
ENSMMUG00000005170	unc-45 myosin chaperone B [Source:VGNC Symbol;Acc:VGNC:78954]	1.140185815	2.46E-05	0.000171972
ENSMMUG00000037555	schlafen family member 11 [Source:NCBI gene;Acc:715511]	1.539859708	0.013460572	0.041448069

ENSMMUG00000060439	schlafen family member 12 like [Source:NCBI gene;Acc:106992394]	-	0.812339046	0.00071992	0.003400089
ENSMMUG00000031736		-	2.630630164	0.001426159	0.006142836
ENSMMUG00000026432	small nucleolar RNA, C/D box 7 [Source:HGNC Symbol;Acc:HGNC:32704]	-	3.463528319	0.000717159	0.00338925
ENSMMUG00000006048	adaptor related protein complex 2 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69964]	-	0.790107168	1.07E-05	8.17E-05
ENSMMUG000000050758		-	1.601332924	0.002024012	0.008351705
ENSMMUG000000062497		-	1.274539332	0.002290534	0.009262319
ENSMMUG000000054472		-	1.072484118	2.96E-05	0.000202427
ENSMMUG000000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	-	1.242272435	1.28E-21	1.15E-19
ENSMMUG000000058233	C-C motif chemokine 3-like [Source:NCBI gene;Acc:100426537]	-	1.838092854	0.001623244	0.006893504
ENSMMUG000000061594		-	1.994181251	4.49E-05	0.000295925
ENSMMUG000000052786		-	-1.7106908	0.000249875	0.001344349
ENSMMUG000000000620	dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]	-	1.204935816	0.000158251	0.000898281
ENSMMUG000000000618	gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]	-	1.084800322	0.00023643	0.001279114
ENSMMUG000000051190	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-2.03310578	8.81E-05	0.000533901
ENSMMUG000000007920	myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]	-	1.113470587	1.33E-07	1.57E-06
ENSMMUG000000007923	phosphatidylinositol glycan anchor biosynthesis class W [Source:VGNC Symbol;Acc:VGNC:75850]	-	0.842478423	0.000399949	0.002029338
ENSMMUG000000053845		-	0.696034061	0.003151166	0.012131488
ENSMMUG000000007917	carbonic anhydrase 4 [Source:NCBI gene;Acc:716919]	-	0.860013091	0.000284518	0.00151116
ENSMMUG000000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	-	1.206103052	8.44E-19	5.73E-17
ENSMMUG000000052977	putative protein FAM106C [Source:NCBI gene;Acc:106994084]	-	1.055528733	7.94E-08	9.69E-07
ENSMMUG000000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]	-	1.164364384	2.74E-07	3.02E-06
ENSMMUG000000008423	septin 4 [Source:NCBI gene;Acc:714724]	-	0.749719377	1.22E-10	2.51E-09
ENSMMUG000000007004	ring finger protein 43 [Source:NCBI gene;Acc:710124]	-	0.761747042	0.016617801	0.049300606
ENSMMUG000000056064	serine and arginine rich splicing factor 1 [Source:NCBI gene;Acc:713958]	-	0.429820153	0.001409478	0.006081799
ENSMMUG000000004723	vascular endothelial zinc finger 1 [Source:NCBI gene;Acc:713848]	-	0.475676532	0.001392837	0.006027887
ENSMMUG000000002269	serine carboxypeptidase 1 [Source:VGNC Symbol;Acc:VGNC:82232]	-	0.619956079	0.000427824	0.002159473
ENSMMUG000000049376		-	1.929881028	0.016874848	0.049835826
ENSMMUG000000005793	ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]	-	1.061730235	9.88E-07	9.53E-06
ENSMMUG0000000059321		-	2.215573454	0.002456348	0.009815263
ENSMMUG000000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	-	2.431223852	6.03E-06	4.85E-05
ENSMMUG000000006068	transmembrane protein 100 [Source:VGNC Symbol;Acc:VGNC:79521]	-	0.379073655	0.008900907	0.029427448
ENSMMUG000000022627	HLF transcription factor, PAR bZIP family member [Source:VGNC Symbol;Acc:VGNC:73478]	-	-1.0389056	0.000949248	0.004333851

ENSMMUG00000050544		-	1.723469167	5.60E-08	7.07E-07
ENSMMUG00000049997		-	1.434069223	1.71E-07	1.98E-06
ENSMMUG00000056602		-	1.519641942	0.002769066	0.010841343
ENSMMUG00000010550	target of myb1 like 1 membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:78616]	-	0.575884228	0.001349218	0.005860046
ENSMMUG00000060858		-	1.697426483	0.000136162	0.000786721
ENSMMUG00000063189		-	0.424450879	0.015425841	0.046341279
ENSMMUG00000001942	mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]	-	-1.37875988	3.57E-07	3.84E-06
ENSMMUG00000001940	NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]	-	1.806216916	1.67E-11	4.00E-10
ENSMMUG00000022741	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]	-	0.530905234	0.001331819	0.005793134
ENSMMUG00000010117	LUC7 like 3 pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:74346]	-	0.823665397	0.001221804	0.005374087
ENSMMUG00000003421	ankyrin repeat domain 40 [Source:VGNC Symbol;Acc:VGNC:69725]	-	0.993461707	0.00523515	0.018684847
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	-	1.658199722	6.76E-24	7.07E-22
ENSMMUG00000017252	spermatogenesis associated 20 [Source:VGNC Symbol;Acc:VGNC:77993]	-	0.944378832	0.000148665	0.000850175
ENSMMUG00000017242	MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]	-	1.997739719	2.45E-10	4.78E-09
ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	-	2.828920156	8.97E-29	1.86E-26
ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	-	1.431612148	2.05E-06	1.83E-05
ENSMMUG00000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	-	1.826234385	0.00070487	0.003341865
ENSMMUG00000014685	pyruvate dehydrogenase kinase 2 [Source:VGNC Symbol;Acc:VGNC:75933]	-	1.428370942	0.00718764	0.024498644
ENSMMUG00000000153	integrin subunit alpha 3 [Source:VGNC Symbol;Acc:VGNC:73777]	-	1.844731489	0.004054912	0.015002864
ENSMMUG00000015845	beta-1,4-N-acetyl-galactosaminyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70120]	-	1.417936984	0.000814618	0.003790687
ENSMMUG00000012178	calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]	-	1.854965363	1.83E-16	9.29E-15
ENSMMUG00000049405	gastric inhibitory polypeptide [Source:NCBI gene;Acc:698335]	-	0.535588425	0.003046703	0.011788641
ENSMMUG00000021087	SNF8 subunit of ESCRT-II [Source:VGNC Symbol;Acc:VGNC:77729]	-	0.475754064	0.00923343	0.030367958
ENSMMUG00000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	-	0.997266016	8.93E-10	1.58E-08
ENSMMUG00000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	-	0.966851638	2.03E-10	4.04E-09
ENSMMUG000000055122		-	0.807559122	1.57E-05	0.00011439
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	-	1.279450261	5.02E-20	3.80E-18
ENSMMUG00000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	-	1.201580358	7.29E-14	2.54E-12
ENSMMUG00000055324	homeobox B7 [Source:NCBI gene;Acc:697089]	-	1.232282414	5.52E-08	6.99E-07
ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	-	1.113807448	3.68E-11	8.29E-10
ENSMMUG00000051420	homeobox B5 [Source:NCBI gene;Acc:696732]	-	0.966743468	2.93E-07	3.22E-06
ENSMMUG00000045203		-	1.2210986	0.000131262	0.000762346
ENSMMUG00000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]	-	0.934287275	5.11E-06	4.17E-05
ENSMMUG00000057095		-	1.925294889	0.003663539	0.013807848
ENSMMUG00000050742	src kinase associated phosphoprotein 1 [Source:NCBI gene;Acc:697043]	-	0.479024478	7.72E-07	7.63E-06
ENSMMUG00000004760	CDK5 regulatory subunit associated protein 3 [Source:VGNC Symbol;Acc:VGNC:71015]	-	0.884257243	0.000726334	0.003428155
ENSMMUG00000003325	pyridoxamine 5'-phosphate oxidase [Source:VGNC Symbol;Acc:VGNC:76141]	-	0.794720514	3.24E-06	2.76E-05

ENSMMUG00000021486	secernin 2 [Source:NCBI gene;Acc:694571]	1.060146896	0.003361284	0.012824932
ENSMMUG00000057231	T-box transcription factor 21 [Source:NCBI gene;Acc:694044]	1.586070205	9.65E-15	3.84E-13
ENSMMUG00000019760	karyopherin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:74203]	0.617025834	1.43E-06	1.33E-05
ENSMMUG00000020528	G protein-coupled receptor 179 [Source:VGNC Symbol;Acc:VGNC:73043]	1.740853029	0.005475739	0.019429051
ENSMMUG00000020020	Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]	2.012226262	7.27E-11	1.56E-09
ENSMMUG00000007799	LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]	1.213099034	9.13E-05	0.00055164
ENSMMUG00000056248		4.256031536	1.25E-40	1.01E-37
ENSMMUG00000063779		4.385789005	1.65E-47	3.00E-44
ENSMMUG00000000289	calcium voltage-gated channel auxiliary subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70509]	0.504316487	0.000906212	0.004163592
ENSMMUG00000030060	F-box and leucine rich repeat protein 20 [Source:VGNC Symbol;Acc:VGNC:81407]	-0.51925571	2.00E-05	0.000142664
ENSMMUG00000009132	mediator complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:74724]	0.605976114	0.004449834	0.016240832
ENSMMUG00000001405	protein phosphatase 1 regulatory inhibitor subunit 1B [Source:VGNC Symbol;Acc:VGNC:76369]	0.339219162	0.013667708	0.041979183
ENSMMUG00000004587	gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]	1.427583063	0.005641311	0.019948369
ENSMMUG00000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	0.914702901	4.46E-06	3.69E-05
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	0.979767781	4.99E-14	1.80E-12
ENSMMUG00000002933	nuclear receptor subfamily 1 group D member 1 [Source:VGNC Symbol;Acc:VGNC:75502]	0.721319496	0.000180331	0.001007872
ENSMMUG00000045187	CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]	0.75969054	6.90E-06	5.48E-05
ENSMMUG00000015160	Rap guanine nucleotide exchange factor like 1 [Source:VGNC Symbol;Acc:VGNC:76501]	0.541198078	0.010985069	0.035012048
ENSMMUG00000008941	DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]	0.930418468	2.16E-11	5.08E-10
ENSMMUG00000062362	keratin 33A [Source:NCBI gene;Acc:705800]	0.709567672	1.61E-05	0.000117137
ENSMMUG00000018644	keratin 32 [Source:VGNC Symbol;Acc:VGNC:74216]	-0.29725674	0.012552318	0.039090198
ENSMMUG00000018645	keratin 35 [Source:VGNC Symbol;Acc:VGNC:74217]	0.330401285	0.009667092	0.031523221
ENSMMUG00000040413	keratin 13 [Source:NCBI gene;Acc:706830]	-0.58604425	0.00883707	0.02923634
ENSMMUG00000013048	junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]	0.7619969	6.14E-05	0.000387877
ENSMMUG00000016114	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:VGNC Symbol;Acc:VGNC:71279]	0.506597956	0.000675547	0.003224041
ENSMMUG00000003894	zinc finger protein 385C [Source:NCBI gene;Acc:708928]	0.521163434	0.000185017	0.001032076
ENSMMUG00000049440	chromosome 16 C17orf113 homolog [Source:NCBI gene;Acc:106994045]	0.411273664	0.000105445	0.000625656
ENSMMUG00000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	2.399282729	8.49E-19	5.74E-17
ENSMMUG00000052220		0.574985024	0.004597362	0.016691271
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	1.407844367	1.37E-17	7.89E-16
ENSMMUG00000009884	hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]	1.792093993	3.97E-06	3.32E-05
ENSMMUG00000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	1.318789707	2.20E-17	1.23E-15
ENSMMUG00000009887	MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]	1.2504294	3.74E-07	4.00E-06
ENSMMUG00000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	1.153599436	8.86E-12	2.23E-10
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	1.320857525	6.99E-18	4.11E-16
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	1.51942237	1.77E-13	5.74E-12
ENSMMUG00000006086	pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]	1.150546304	0.000251077	0.001348928
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	1.542291515	2.85E-13	8.94E-12
ENSMMUG00000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	1.47639167	3.83E-12	1.02E-10
ENSMMUG00000056565	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.489913424	0.010003133	0.032451584
ENSMMUG00000058566		1.404085559	1.33E-15	6.15E-14
ENSMMUG00000029971	beclin 1 [Source:VGNC Symbol;Acc:VGNC:70044]	0.440126808	0.006049041	0.021107755
ENSMMUG00000012685	proteasome activator subunit 3 [Source:VGNC Symbol;Acc:VGNC:76457]	0.358811935	0.009230472	0.030366535

ENSMMUG0000001870	amine oxidase copper containing 2 [Source:VGNC Symbol;Acc:VGNC:69955]	0.496589603	0.004265804	0.015679393
ENSMMUG00000014123	alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]	1.154663708	2.15E-06	1.90E-05
ENSMMUG00000008091	RUN domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77101]	0.943612763	0.000236903	0.001280719
ENSMMUG000000064920		1.212336698	1.50E-11	3.62E-10
ENSMMUG00000008090	ribosomal protein L27 [Source:NCBI gene;Acc:712352]	1.17690467	0.00033467	0.001733068
ENSMMUG00000015999	interferon induced protein 35 [Source:VGNC Symbol;Acc:VGNC:73564]	0.881929956	0.002715765	0.010641261
ENSMMUG00000016001	vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]	1.008868362	2.33E-06	2.06E-05
ENSMMUG000000065269	Rho family GTPase 2 [Source:NCBI gene;Acc:712559]	1.02887784	9.83E-06	7.52E-05
ENSMMUG000000052607		1.119524633	4.73E-25	5.88E-23
		-		
ENSMMUG00000019923	ataxin 7 like 3 [Source:VGNC Symbol;Acc:VGNC:70128]	0.620157126	5.57E-05	0.000356839
		-		
ENSMMUG00000017100	solute carrier family 4 member 1 (Diego blood group) [Source:NCBI gene;Acc:100427618]	0.651752854	8.71E-07	8.47E-06
ENSMMUG00000013983	RUN domain containing 3A [Source:VGNC Symbol;Acc:VGNC:77032]	0.267126293	0.000510657	0.002519831
ENSMMUG000000041006	family with sequence similarity 171 member A2 [Source:NCBI gene;Acc:712099]	0.331889512	0.003531395	0.013368721
		-		
ENSMMUG000000029927	ADAM metalloproteinase domain 11 [Source:VGNC Symbol;Acc:VGNC:69466]	0.553148797	0.009566937	0.03125271
ENSMMUG000000062273	dephospho-CoA kinase domain containing [Source:NCBI gene;Acc:715841]	1.063255126	0.008223439	0.027468782
		-		
ENSMMUG000000060665		0.948867104	7.54E-05	0.000466402
		-		
ENSMMUG000000054246		2.398182005	0.000135629	0.000784578
		-		
ENSMMUG000000021932	Rho GTPase activating protein 27 [Source:VGNC Symbol;Acc:VGNC:69935]	1.571171184	0.001003355	0.004539613
		-		
ENSMMUG000000008459	pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]	1.095475216	0.000536679	0.002626868
		-		
ENSMMUG000000049983		1.183222774	0.004835184	0.017437128
ENSMMUG000000005548	N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]	0.665054481	3.47E-09	5.50E-08
		-		
ENSMMUG0000000057209		0.581488288	0.000562945	0.002741552
ENSMMUG0000000053257	Y RNA [Source:RFAM;Acc:RF00019]	1.316913022	3.37E-10	6.49E-09
		-		
ENSMMUG000000063877	leucine-rich repeat-containing protein 37A2 [Source:NCBI gene;Acc:716147]	0.405652546	0.000443217	0.002229426
ENSMMUG000000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]	0.729507743	2.06E-10	4.08E-09
ENSMMUG00000010588	EF-hand calcium binding domain 13 [Source:HGNC Symbol;Acc:HGNC:26864]	0.650993144	0.000685978	0.003266315
ENSMMUG000000002166	tousled like kinase 2 [Source:VGNC Symbol;Acc:VGNC:78368]	-2.4101307	0.002347105	0.009441027
		-		
ENSMMUG000000002168	membrane associated ring-CH-type finger 10 [Source:VGNC Symbol;Acc:VGNC:74593]	1.642892334	0.007311726	0.024892404
		-		
ENSMMUG000000011809	platelet and endothelial cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:75938]	0.614048157	0.001759826	0.007385276
ENSMMUG000000009463	DEAD-box helicase 5 [Source:VGNC Symbol;Acc:VGNC:71763]	-0.34076527	0.009239721	0.030374905
		-		
ENSMMUG000000009459	centrosomal protein 95 [Source:VGNC Symbol;Acc:VGNC:71095]	0.398985508	0.008779116	0.029104221
		-		
ENSMMUG000000063689		0.754344226	0.002111813	0.00866011
		-		
ENSMMUG000000009461	SMAD specific E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77727]	0.573301873	0.000705063	0.003341865
ENSMMUG000000060767		2.638848693	4.69E-14	1.71E-12
ENSMMUG000000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]	2.801933047	9.21E-19	6.17E-17
ENSMMUG0000000057157		2.530377018	7.49E-16	3.58E-14
ENSMMUG000000063817	SRY-box transcription factor 9 [Source:NCBI gene;Acc:574208]	0.732262564	0.000202573	0.001116723
ENSMMUG0000000054673		1.828063572	0.010414078	0.033522908
ENSMMUG000000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]	0.873618405	4.25E-10	8.04E-09

ENSMMUG00000049948		-1.57505189	1.18E-13	3.97E-12
ENSMMUG00000064463		1.67817729	2.04E-06	1.82E-05
		-		
ENSMMUG00000062704	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.830637974	0.003206824	0.012313155
ENSMMUG00000049403		0.56537207	0.001096925	0.004886916
ENSMMUG00000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]	1.645637457	3.62E-09	5.71E-08
ENSMMUG00000058592		1.738238212	3.83E-12	1.02E-10
ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]	2.029321404	1.68E-08	2.33E-07
ENSMMUG00000005737	SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]	2.476284549	5.14E-05	0.000332521
ENSMMUG00000005738	N-acetyltransferase 9 (putative) [Source:NCBI gene;Acc:699085]	3.320351011	0.013616278	0.041830057
ENSMMUG00000023405	otopettrin 3 [Source:VGNC Symbol;Acc:VGNC:75654]	0.486962246	0.001086735	0.004850434
ENSMMUG00000023406	HID1 domain containing [Source:VGNC Symbol;Acc:VGNC:73394]	0.668298128	9.14E-05	0.00055164
		-		
ENSMMUG00000018031	solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]	1.829808758	1.45E-08	2.05E-07
		-		
ENSMMUG00000058142		1.044785042	2.10E-06	1.87E-05
		-		
ENSMMUG00000034931	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.370120014	0.007964688	0.026709367
		-		
ENSMMUG00000022120	transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]	0.968666837	1.01E-08	1.47E-07
ENSMMUG00000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]	-1.18388603	3.37E-06	2.86E-05
		-		
ENSMMUG00000022123	tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]	0.964461262	0.000100065	0.000596413
		-		
ENSMMUG00000001228	LLGL scribble cell polarity complex component 2 [Source:NCBI gene;Acc:706973]	0.618510638	9.40E-05	0.00056441
		-		
ENSMMUG00000063604	small integral membrane protein 5 [Source:NCBI gene;Acc:703547]	1.511927274	0.012392371	0.03869987
		-		
ENSMMUG00000021636	SAP30 binding protein [Source:VGNC Symbol;Acc:VGNC:77142]	1.186820592	0.001072483	0.004803043
ENSMMUG00000013646	unk zinc finger [Source:VGNC Symbol;Acc:VGNC:79803]	0.663068719	0.009435699	0.030924165
ENSMMUG00000002822	unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]	0.870414795	2.62E-05	0.000181165
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]	0.902557662	1.46E-06	1.36E-05
ENSMMUG00000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	1.289171146	3.49E-08	4.57E-07
ENSMMUG00000016774	tripartite motif containing 65 [Source:NCBI gene;Acc:708355]	1.617128232	0.010936557	0.034903344
ENSMMUG00000016775	Fas binding factor 1 [Source:NCBI gene;Acc:708559]	2.959400629	0.011420783	0.036155036
ENSMMUG00000003534	ring finger protein 157 [Source:VGNC Symbol;Acc:VGNC:76860]	0.538519891	0.002211143	0.009001228
ENSMMUG00000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	1.86880467	1.91E-08	2.62E-07
ENSMMUG00000049537	phosphoribosyl pyrophosphate synthetase associated protein 1 [Source:NCBI gene;Acc:706625]	2.116416255	0.001413921	0.006097352
ENSMMUG00000018011	sphingosine kinase 1 [Source:VGNC Symbol;Acc:VGNC:77858]	1.845458206	1.57E-05	0.000114767
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	2.762559296	1.57E-31	3.68E-29
ENSMMUG00000046918		2.371711842	1.19E-06	1.13E-05
ENSMMUG00000054111	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.75201284	0.002823838	0.011034984
ENSMMUG00000055379		2.549012278	9.43E-29	1.93E-26
ENSMMUG00000053937		2.562900955	3.28E-28	6.12E-26
		-		
ENSMMUG00000008237	phosphatidylglycerophosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:75890]	0.816671878	0.003662443	0.013807298
		-		
ENSMMUG00000008239	dynein axonemal heavy chain 17 [Source:NCBI gene;Acc:715774]	0.565448353	0.011396787	0.036110527
		-		
ENSMMUG00000049898		0.627132496	0.001821548	0.007606964
ENSMMUG00000051537		2.375259007	0.000300924	0.001578113
ENSMMUG00000013313	cytohesin 1 [Source:VGNC Symbol;Acc:VGNC:71828]	0.356412476	0.006418433	0.022175788
ENSMMUG00000005355	TIMP metalloproteinase inhibitor 2 [Source:NCBI gene;Acc:574357]	1.972282026	0.010675482	0.034190237

ENSMMUG00000023027	endo-beta-N-acetylglucosaminidase [Source:VGNC Symbol;Acc:VGNC:72099]	-	0.615641918	7.19E-05	0.000445441
ENSMMUG00000058715			1.81841477	0.000660744	0.003159618
ENSMMUG00000016414	ectonucleotide pyrophosphatase/phosphodiesterase 7 [Source:VGNC Symbol;Acc:VGNC:72090]		1.313598487	0.002969059	0.011525022
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]		1.997620235	7.74E-10	1.39E-08
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]		1.458379626	2.00E-10	3.98E-09
ENSMMUG00000020840	TBC1 domain family member 16 [Source:VGNC Symbol;Acc:VGNC:78228]		0.598897049	6.33E-05	0.000398275
ENSMMUG00000064603	caspase recruitment domain family member 14 [Source:NCBI gene;Acc:712205]		0.446473575	0.00144879	0.006229242
ENSMMUG00000064563			-		
ENSMMUG00000000590	NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]		0.751140422	0.003783875	0.014184166
ENSMMUG00000000590			1.221881335	0.002213888	0.009009878
ENSMMUG00000029310	hemoglobin, alpha 2 [Source:NCBI gene;Acc:693930]		-		
ENSMMUG00000019566	hemoglobin subunit alpha 1 [Source:NCBI gene;Acc:701930]		0.620617305	2.94E-05	0.00020102
ENSMMUG00000029296	phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]		-0.52395998	0.011048681	0.035176231
ENSMMUG00000049219	STIP1 homology and U-box containing protein 1 [Source:NCBI gene;Acc:697105]		0.993314336	0.000300893	0.001578113
ENSMMUG00000001986	WD repeat domain 24 [Source:VGNC Symbol;Acc:VGNC:79289]		0.759296401	0.004313337	0.015838086
ENSMMUG00000001986			-0.93462424	0.000774913	0.003622955
ENSMMUG00000050065			-		
ENSMMUG00000050065			1.021881626	0.001734675	0.007292358
ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]		-		
ENSMMUG00000016906			0.962854272	2.17E-07	2.45E-06
ENSMMUG00000050892	mastin-like [Source:NCBI gene;Acc:722432]		-		
ENSMMUG00000050892			0.393386089	0.001971215	0.008161648
ENSMMUG00000063740			-		
ENSMMUG00000063740			0.493967507	7.39E-05	0.000457679
ENSMMUG00000044277	ubiquitin conjugating enzyme E2 I [Source:NCBI gene;Acc:722434]		-		
ENSMMUG00000021415	BAI1 associated protein 3 [Source:VGNC Symbol;Acc:VGNC:70223]		1.147907823	6.53E-07	6.58E-06
ENSMMUG00000061546			0.797124178	0.000969581	0.004405376
ENSMMUG00000061546			-		
ENSMMUG00000061546			1.623742506	0.001163481	0.005147145
ENSMMUG00000008119	telomere maintenance 2 [Source:NCBI gene;Acc:701679]		-		
ENSMMUG00000008119			0.803476635	0.004453702	0.01625087
ENSMMUG00000062198	transmembrane protein 204 [Source:NCBI gene;Acc:701926]		-		
ENSMMUG00000062198			1.552781401	0.000411299	0.002084019
ENSMMUG00000000978	cramped chromatin regulator homolog 1 [Source:NCBI gene;Acc:722473]		-		
ENSMMUG00000000978			0.623244803	6.46E-05	0.000405707
ENSMMUG00000029265	zinc finger protein 598 [Source:NCBI gene;Acc:694129]		-		
ENSMMUG00000029265			0.913235074	3.08E-05	0.000210199
ENSMMUG00000029263	polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]		-		
ENSMMUG00000019223	TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]		0.787200019	1.38E-05	0.000102229
ENSMMUG00000019223			0.825538735	0.000486264	0.002412567
ENSMMUG00000019237	enoyl-CoA delta isomerase 1 [Source:VGNC Symbol;Acc:VGNC:81391]		-		
ENSMMUG00000019237			0.458939598	0.013022356	0.04028644
ENSMMUG00000019238	RNA binding protein with serine rich domain 1 [Source:NCBI gene;Acc:695816]		-		
ENSMMUG00000019238			0.564775908	9.45E-08	1.14E-06
ENSMMUG00000000001	cyclin F [Source:VGNC Symbol;Acc:VGNC:70729]		-		
ENSMMUG00000019095	TBC1 domain family member 24 [Source:NCBI gene;Acc:697106]		0.723536202	0.00151907	0.006493008
ENSMMUG00000011459	3-phosphoinositide dependent protein kinase 1 [Source:NCBI gene;Acc:697523]		0.644554242	0.00211755	0.008678553
ENSMMUG00000009487	zinc finger protein 205 [Source:VGNC Symbol;Acc:VGNC:78869]		0.426745067	1.33E-07	1.57E-06
ENSMMUG00000020970	zinc finger protein 213 [Source:VGNC Symbol;Acc:VGNC:78872]		0.370686507	0.01439858	0.043807484
ENSMMUG00000051323	caspase-14-like [Source:NCBI gene;Acc:702430]		0.424986043	0.000156266	0.000888748
ENSMMUG00000064961			0.456458424	0.010856609	0.034670382
ENSMMUG00000064961			-		
ENSMMUG00000064961			1.022251249	0.001242136	0.00545362

ENSMMUG00000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]	0.760189164	4.45E-05	0.000293487
ENSMMUG00000017969	MEFV innate immunity regulator, pyrin [Source:VGNC Symbol;Acc:VGNC:74700]	-0.65182614	0.006152096	0.021390341
ENSMMUG00000040952	tigger transposable element derived 7 [Source:NCBI gene;Acc:100428553]	1.259255068	0.000615838	0.002966741
ENSMMUG00000007568	zinc finger protein 174 [Source:VGNC Symbol;Acc:VGNC:78855]	1.122193484	0.001131912	0.005027378
ENSMMUG00000018711	N-alpha-acetyltransferase 60, NatF catalytic subunit [Source:NCBI gene;Acc:703207]	0.317286768	0.014266747	0.043488299
ENSMMUG00000007569	clusterin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71211]	0.425875941	0.013211631	0.040776534
ENSMMUG00000021866	deoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:71946]	0.47516818	0.000337732	0.001747193
ENSMMUG00000021868	TNF receptor associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79019]	0.811188184	8.35E-07	8.16E-06
ENSMMUG00000039943	adenylate cyclase 9 [Source:NCBI gene;Acc:706789]	1.492589263	0.002125777	0.008709813
ENSMMUG00000061940		3.81724337	4.87E-05	0.000317034
ENSMMUG00000051196		1.678931127	0.00260072	0.010270761
ENSMMUG00000040803	sarcalumenin [Source:NCBI gene;Acc:704655]	1.676000956	3.29E-06	2.80E-05
ENSMMUG00000044729	transcription factor AP-4 [Source:NCBI gene;Acc:707513]	1.483560212	8.19E-05	0.000501036
ENSMMUG00000044344	vasorin [Source:NCBI gene;Acc:100426861]	0.700652945	0.000565016	0.002749793
ENSMMUG00000020540	NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]	1.586301163	7.73E-08	9.45E-07
ENSMMUG00000001888	mahogunin ring finger 1 [Source:VGNC Symbol;Acc:VGNC:74542]	0.836129934	0.003513981	0.013313199
ENSMMUG00000011001	ankyrin repeat and sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:69735]	0.537100259	0.000602899	0.002914648
ENSMMUG00000014311	chromosome 20 C16orf71 homolog [Source:NCBI gene;Acc:709711]	0.39302741	0.007191334	0.02450549
ENSMMUG00000014313	zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]	0.540212797	0.000898029	0.00412991
ENSMMUG00000017945	septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]	0.659555005	1.40E-05	0.000103634
ENSMMUG00000017946	rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]	0.552435808	0.000159922	0.000906349
ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	2.493022883	3.56E-33	1.01E-30
ENSMMUG00000017822	periplakin [Source:VGNC Symbol;Acc:VGNC:76240]	3.69130989	1.54E-26	2.38E-24
ENSMMUG00000011499	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase [Source:VGNC Symbol;Acc:VGNC:74978]	0.967073126	0.01274396	0.039551442
ENSMMUG00000046237	4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]	0.861314035	0.000318938	0.001662386
ENSMMUG00000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	0.873605585	7.24E-10	1.30E-08
ENSMMUG00000005913	activating transcription factor 7 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70103]	1.113984484	0.001046518	0.004704151
ENSMMUG000000056165		2.295793638	2.45E-08	3.30E-07
ENSMMUG000000052031		1.298369223	1.25E-06	1.18E-05
ENSMMUG000000064158		0.997523661	0.01347789	0.041472614
ENSMMUG000000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]	2.253565974	9.15E-09	1.35E-07
ENSMMUG00000006515	C-type lectin domain containing 16A [Source:VGNC Symbol;Acc:VGNC:71369]	0.608811611	0.002435534	0.009740125
ENSMMUG00000000566		2.315028692	2.14E-06	1.90E-05
ENSMMUG00000008784	lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]	4.118325795	1.37E-05	0.000101616
ENSMMUG000000056339		2.218225214	0.010913643	0.034837862
ENSMMUG000000062037	stannin [Source:NCBI gene;Acc:711909]	1.924696087	3.43E-07	3.71E-06

ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	2.458728661	1.26E-07	1.49E-06
ENSMMUG00000019632	ribosomal L1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77096]	0.503182187	2.33E-05	0.000163368
ENSMMUG00000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	1.265482561	2.52E-11	5.81E-10
ENSMMUG00000017379	myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]	0.858256539	2.68E-05	0.000185234
ENSMMUG00000062213	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.823902218	0.011651978	0.036713278
ENSMMUG00000057747		1.421231607	0.00330346	0.012650791
ENSMMUG00000064131		1.280082624	2.23E-07	2.50E-06
ENSMMUG00000027108	mml-mir-193b [Source:miRBase;Acc:MI0007656]	1.227927596	0.013684935	0.041996602
ENSMMUG00000064246		0.669835201	0.003964036	0.014737902
ENSMMUG00000002989	N-terminal asparagine amidase [Source:NCBI gene;Acc:100427569]	1.111085514	0.013671804	0.041982894
ENSMMUG00000062791		2.056382457	7.17E-07	7.15E-06
ENSMMUG00000062623	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.927499249	5.73E-05	0.000364995
ENSMMUG00000058016	bMERB domain containing 1 [Source:NCBI gene;Acc:713757]	1.149297446	3.26E-06	2.78E-05
ENSMMUG00000010367	myosin heavy chain 11 [Source:VGNC Symbol;Acc:VGNC:75097]	0.521928649	2.36E-06	2.08E-05
ENSMMUG00000002709	G protein-coupled receptor class C group 5 member B [Source:VGNC Symbol;Acc:VGNC:72934]	0.605167192	7.78E-05	0.000479232
ENSMMUG00000055853	G protein-coupled receptor 139 [Source:NCBI gene;Acc:695541]	1.028441316	0.011380613	0.03606714
ENSMMUG00000016758	transmembrane protein 159 [Source:VGNC Symbol;Acc:VGNC:79836]	0.637942395	6.97E-05	0.000433085
ENSMMUG00000064659		0.6131281	0.000897579	0.004129146
ENSMMUG00000017725	eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]	0.690553149	8.03E-08	9.79E-07
ENSMMUG00000002257	RNA polymerase III subunit E [Source:VGNC Symbol;Acc:VGNC:76142]	0.551929428	2.92E-05	0.000199908
ENSMMUG00000013877	otoancorin [Source:VGNC Symbol;Acc:VGNC:75624]	1.186635177	9.15E-05	0.000551944
ENSMMUG00000058042	heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]	1.015174045	4.61E-07	4.85E-06
ENSMMUG00000000525	component of oligomeric golgi complex 7 [Source:VGNC Symbol;Acc:VGNC:71208]	0.890119057	0.00231472	0.009336596
ENSMMUG00000054064		1.597313985	1.77E-13	5.74E-12
ENSMMUG00000013560	calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]	0.721619963	0.000265337	0.001420177
ENSMMUG00000057850		0.474314437	0.016948778	0.049969579
ENSMMUG00000015908	RB binding protein 6, ubiquitin ligase [Source:VGNC Symbol;Acc:VGNC:76677]	0.455881978	0.000386776	0.001967994
ENSMMUG00000005942	leucine carboxyl methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:74067]	0.439119157	0.000287637	0.001522159
ENSMMUG00000008254	general transcription factor IIIC subunit 1 [Source:VGNC Symbol;Acc:VGNC:73316]	3.836563063	0.003074693	0.011872646
ENSMMUG00000015572	GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]	0.797742128	9.90E-05	0.000591282
ENSMMUG00000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	1.402896496	2.10E-18	1.32E-16
ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	1.373956454	2.82E-14	1.08E-12
ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	1.388117996	6.77E-16	3.25E-14
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	1.40157735	6.53E-12	1.68E-10
ENSMMUG00000022330	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 [Source:NCBI gene;Acc:100428398]	2.321726207	0.00132658	0.005775528
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	2.245002475	5.51E-29	1.16E-26
ENSMMUG00000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	3.327639655	2.12E-11	4.99E-10

ENSMMUG0000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	1.819722995	4.06E-09	6.31E-08
ENSMMUG0000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	1.762335642	7.13E-08	8.80E-07
ENSMMUG0000000983	aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]	1.467984508	4.36E-07	4.60E-06
ENSMMUG00000059051		1.198024507	0.009299414	0.03054351
ENSMMUG00000037707	TLC domain containing 3B [Source:NCBI gene;Acc:708210]	-0.79488597	0.015460797	0.046427102
ENSMMUG00000020277	double C2 domain alpha [Source:VGNC Symbol;Acc:VGNC:71963]	0.478919838	0.000533945	0.002616095
ENSMMUG00000020274	TAO kinase 2 [Source:VGNC Symbol;Acc:VGNC:81592]	0.421793192	0.001050693	0.004720001
ENSMMUG00000018992	aspartate beta-hydroxylase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70138]	1.812067192	0.000267217	0.001428139
ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	1.176192111	1.87E-06	1.68E-05
ENSMMUG00000061749	PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]	0.451172124	0.000338648	0.001750685
ENSMMUG00000019826	MYC associated zinc finger protein [Source:NCBI gene;Acc:708982]	0.537269757	0.005798428	0.020385122
ENSMMUG00000009684	kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]	1.644821131	1.94E-12	5.41E-11
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	1.590784073	6.57E-28	1.18E-25
ENSMMUG00000021845	TBC1 domain family member 10B [Source:VGNC Symbol;Acc:VGNC:78202]	0.363627721	0.004559421	0.016565935
ENSMMUG00000016876	integrin subunit alpha L [Source:NCBI gene;Acc:711945]	0.909451422	3.25E-05	0.000220663
ENSMMUG00000001121	zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]	1.205538521	4.35E-05	0.000287759
ENSMMUG00000005625	fibrosin [Source:NCBI gene;Acc:712741]	1.842144187	0.002268411	0.009195729
ENSMMUG00000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	1.396264795	6.97E-15	2.86E-13
ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	0.986016473	1.35E-10	2.77E-09
ENSMMUG00000003230	F-box and leucine rich repeat protein 19 [Source:VGNC Symbol;Acc:VGNC:81406]	0.653087427	0.000931919	0.004265525
ENSMMUG00000003233	SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]	0.909988539	2.58E-09	4.18E-08
ENSMMUG00000048207	syntaxin 4 [Source:NCBI gene;Acc:704880]	0.568507467	1.51E-05	0.000110531
ENSMMUG00000002033	serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]	0.627154709	4.94E-07	5.14E-06
ENSMMUG00000014349	integrin subunit alpha X [Source:NCBI gene;Acc:100427850]	2.072634456	3.34E-08	4.39E-07
ENSMMUG00000000901	alpha hemoglobin stabilizing protein [Source:VGNC Symbol;Acc:VGNC:69631]	0.343760562	0.006511722	0.022442129
ENSMMUG00000058907		1.890053574	8.77E-05	0.000531156
ENSMMUG00000055973	phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]	2.248958856	0.000132504	0.000769255
ENSMMUG00000006133		2.601948734	0.006464633	0.022306282
ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]	1.666095305	8.82E-17	4.64E-15
ENSMMUG00000003288	glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]	0.874171415	0.000167162	0.000941511
ENSMMUG00000051092		0.846601983	0.010607615	0.033987855
ENSMMUG00000019868	NKD inhibitor of WNT signaling pathway 1 [Source:VGNC Symbol;Acc:VGNC:75198]	1.258625387	0.001402085	0.006054727
ENSMMUG00000012209	CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]	0.943690303	2.24E-06	1.98E-05
ENSMMUG00000055889		1.307759806	0.000966021	0.004393944
ENSMMUG00000064095		3.609529037	1.22E-06	1.16E-05
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	2.758757539	3.99E-14	1.50E-12
ENSMMUG00000020580	RPGRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]	1.320868307	1.46E-05	0.000107456
ENSMMUG00000020583	FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]	0.902697837	8.93E-08	1.08E-06
ENSMMUG00000001389	iroquois homeobox 3 [Source:NCBI gene;Acc:704386]	0.40922102	0.011472231	0.036278404
ENSMMUG00000054811		3.037786445	9.42E-05	0.000565319
ENSMMUG00000056555		1.364826914	3.01E-11	6.88E-10

ENSMMUG00000023525	cadherin 5 [Source:VGNC Symbol;Acc:VGNC:70973]	-0.50959161	0.000332072	0.001720976
ENSMMUG00000049484		0.865486424	7.39E-10	1.33E-08
ENSMMUG00000020847	CKLF like MARVEL transmembrane domain containing 3 [Source:VGNC Symbol;Acc:VGNC:71215]	0.982656282	0.002330978	0.009394351
ENSMMUG00000022825	carboxylesterase 2 [Source:VGNC Symbol;Acc:VGNC:71012]	0.326548718	0.000116779	0.000685631
ENSMMUG00000064237		1.346782341	2.21E-07	2.49E-06
ENSMMUG00000054948		1.259367266	0.000472475	0.002354599
ENSMMUG00000058815	core-binding factor subunit beta [Source:NCBI gene;Acc:695767]	0.922233773	0.000126053	0.000734146
ENSMMUG00000018102	chromosome 20 C16orf70 homolog [Source:VGNC Symbol;Acc:VGNC:70438]	1.148110564	3.75E-05	0.000250841
ENSMMUG00000005906	heat shock transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:73533]	0.868594233	2.57E-05	0.00017862
ENSMMUG00000020268	nucleolar protein 3 [Source:NCBI gene;Acc:696747]	0.780789795	0.014654693	0.044447168
ENSMMUG00000020266	KIAA0895 like [Source:VGNC Symbol;Acc:VGNC:73952]	1.278378343	0.004881907	0.017588172
ENSMMUG00000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]	1.092183519	9.87E-11	2.07E-09
ENSMMUG00000020258	E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]	0.788005532	7.36E-06	5.80E-05
ENSMMUG00000020259	engulfment and cell motility 3 [Source:VGNC Symbol;Acc:VGNC:72060]	1.123599026	0.006105638	0.021274606
ENSMMUG00000054637	tubulin polymerization promoting protein family member 3 [Source:NCBI gene;Acc:100429881]	1.53881209	0.016713013	0.049512343
ENSMMUG00000009825	zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]	0.715058631	2.02E-05	0.000143654
ENSMMUG00000017105	RHO family interacting cell polarization regulator 1 [Source:NCBI gene;Acc:699910]	0.386462477	0.000410528	0.002080838
ENSMMUG00000007804	RAN binding protein 10 [Source:VGNC Symbol;Acc:VGNC:76563]	0.87475	0.003246158	0.012451027
ENSMMUG00000010393	cadherin 3 [Source:VGNC Symbol;Acc:VGNC:70971]	0.363265982	0.002970412	0.011527198
ENSMMUG00000012039	cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]	2.248692584	8.34E-06	6.46E-05
ENSMMUG00000018255	nuclear factor of activated T cells 5 [Source:VGNC Symbol;Acc:VGNC:75325]	0.707091069	1.22E-05	9.19E-05
ENSMMUG00000049699	thioredoxin like 4B [Source:NCBI gene;Acc:706840]	1.061181014	0.005908404	0.02071147
ENSMMUG00000023312	haptoglobin [Source:NCBI gene;Acc:706640]	1.215988346	0.000585766	0.002838429
ENSMMUG00000009688	IST1 factor associated with ESCRT-III [Source:VGNC Symbol;Acc:VGNC:73675]	0.695001975	0.001441664	0.006200436
ENSMMUG00000010878	adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]	0.912082301	2.67E-11	6.15E-10
ENSMMUG00000012007	PH domain and leucine rich repeat protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:81494]	0.666003342	0.01347933	0.041472614
ENSMMUG00000052324	MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]	0.680959409	0.00582425	0.020460017
ENSMMUG00000061967	carbohydrate sulfotransferase 4 [Source:NCBI gene;Acc:708116]	0.823068567	0.002533814	0.010077716
ENSMMUG00000023147	pyruvate dehydrogenase phosphatase regulatory subunit [Source:VGNC Symbol;Acc:VGNC:75897]	1.238319171	0.011240723	0.035678251
ENSMMUG00000005751	adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]	1.392240689	0.001715104	0.007233653
ENSMMUG00000005754	lysyl-tRNA synthetase 1 [Source:NCBI gene;Acc:714516]	1.039226587	0.002995526	0.011614423
ENSMMUG00000045592		1.699148589	4.66E-05	0.000305377
ENSMMUG00000003916	contactin associated protein family member 4 [Source:VGNC Symbol;Acc:VGNC:71209]	1.473746239	0.001572347	0.006697103
ENSMMUG00000010610	WW domain containing oxidoreductase [Source:VGNC Symbol;Acc:VGNC:78805]	0.903241178	0.015062505	0.045428141
ENSMMUG00000053231		0.681088491	0.00060959	0.0029421
ENSMMUG00000005334	phospholipase C gamma 2 [Source:VGNC Symbol;Acc:VGNC:76170]	0.681269152	1.58E-05	0.000115009
ENSMMUG00000062047		-0.88932336	0.003544687	0.013405079
ENSMMUG00000057329		1.279740988	0.009826863	0.031972495

ENSMMUG00000011893	KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]	-	1.111560774	3.19E-07	3.47E-06
ENSMMUG00000011894	CBY1 interacting BAR domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72335]	-	1.044782924	9.47E-05	0.000567669
ENSMMUG00000061995			0.938403015	3.43E-11	7.76E-10
ENSMMUG00000006763	cytochrome c oxidase subunit IV isoform 1 [Source:NCBI gene;Acc:693811]	-	0.636239057	0.000854998	0.003959575
ENSMMUG00000060536			1.677869366	0.00056454	0.002748397
ENSMMUG00000054493			0.669032409	2.06E-05	0.000146094
ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]	-	1.186192668	1.32E-10	2.72E-09
ENSMMUG00000022867	kelch domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74122]	-	0.544295352	0.000312401	0.001630654
ENSMMUG00000058437			0.938893456	3.43E-06	2.91E-05
ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]	-	2.308434595	0.001438732	0.006189656
ENSMMUG00000008942	carosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]	-	2.686067317	3.48E-06	2.95E-05
ENSMMUG00000051690			2.602182607	0.010741815	0.03438753
ENSMMUG00000015702	divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]	-	3.404180302	0.000162088	0.000917193
ENSMMUG00000020905	chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]	-	3.091722348	5.66E-05	0.000361356
ENSMMUG00000023298	F-box protein 15 [Source:VGNC Symbol;Acc:VGNC:72504]	-	1.509621861	0.010487001	0.033675619
ENSMMUG00000056477			0.945965394	4.02E-14	1.50E-12
ENSMMUG00000050516			0.961041465	2.41E-12	6.62E-11
ENSMMUG00000060966			-1.54034567	0.00745388	0.025334827
ENSMMUG00000018275	docking protein 6 [Source:VGNC Symbol;Acc:VGNC:71915]	-	0.726551726	0.009156501	0.030162714
ENSMMUG00000001245	zinc finger protein 532 [Source:NCBI gene;Acc:701146]	-	4.689024266	2.22E-07	2.50E-06
ENSMMUG00000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	4.419907428	2.77E-08	3.69E-07
ENSMMUG00000065131			-3.77952974	0.000109866	0.000648181
ENSMMUG00000012001	transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]	-	1.693508596	9.98E-15	3.95E-13
ENSMMUG00000020898	cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]	-	-0.94874816	0.009561768	0.031242845
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	-	2.523229574	9.37E-13	2.73E-11
ENSMMUG00000053364			0.593233008	0.009501294	0.031080177
ENSMMUG00000015952	katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]	-	1.891667613	2.49E-05	0.000173749
ENSMMUG00000043738			2.037938867	0.000162436	0.000917733
ENSMMUG00000004498	protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]	-	1.728500494	8.90E-06	6.86E-05
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	-	2.300057044	2.55E-14	9.81E-13
ENSMMUG00000017246	lipoxygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	-	1.677556828	1.58E-15	7.23E-14
ENSMMUG00000004997	SET binding protein 1 [Source:NCBI gene;Acc:699652]	-	1.10840192	0.015531522	0.046600979
ENSMMUG00000049194			1.584847381	0.003887421	0.01449383
ENSMMUG00000006866	CUGBP Elav-like family member 4 [Source:VGNC Symbol;Acc:VGNC:70945]	-	2.492430974	0.003327847	0.012727416
ENSMMUG00000006864	KIAA1328 ortholog [Source:NCBI gene;Acc:709850]	-	3.187525326	0.000721483	0.003406365

ENSMMUG00000018784	solute carrier family 39 member 6 [Source:VGNC Symbol;Acc:VGNC:77508]	0.365037707	0.002673784	0.010502244
ENSMMUG00000018785	elongator acetyltransferase complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72069]	-0.35230932	0.002172501	0.008871248
ENSMMUG00000003302	dystrobrevin alpha [Source:VGNC Symbol;Acc:VGNC:72007]	1.601763282	1.21E-05	9.13E-05
ENSMMUG00000017276	nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]	-1.04106704	2.78E-06	2.40E-05
ENSMMUG00000014451	ASXL transcriptional regulator 3 [Source:VGNC Symbol;Acc:VGNC:70152]	0.660908571	0.000105909	0.000627893
ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]	2.591213127	8.42E-08	1.02E-06
ENSMMUG00000021095	desmoglein 2 [Source:VGNC Symbol;Acc:VGNC:72002]	2.521223705	0.002171525	0.008871248
ENSMMUG00000063743		0.747312312	0.011465479	0.036264941
ENSMMUG00000010944	GATA binding protein 6 [Source:VGNC Symbol;Acc:VGNC:72891]	0.674528825	0.01150553	0.036351238
ENSMMUG00000064806		-0.87754019	0.001266341	0.005549799
ENSMMUG00000003974	GREB1 like retinoic acid receptor coactivator [Source:NCBI gene;Acc:700655]	-2.68122451	0.005377976	0.019132713
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	1.259593467	5.33E-16	2.60E-14
ENSMMUG00000052605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.293959597	7.72E-06	6.04E-05
ENSMMUG00000005086	homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]	1.534884172	2.60E-08	3.48E-07
ENSMMUG00000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	1.870429611	1.58E-34	5.73E-32
ENSMMUG00000016302	L3MBTL histone methyl-lysine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:74133]	0.340129013	0.003995275	0.014835074
ENSMMUG00000059721	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.969807949	0.009113822	0.030060584
ENSMMUG00000000768	protein tyrosine phosphatase receptor type M [Source:VGNC Symbol;Acc:VGNC:76619]	0.432402064	0.002806467	0.010978905
ENSMMUG00000053008		1.305859723	1.88E-06	1.69E-05
ENSMMUG00000049556	NADH:ubiquinone oxidoreductase core subunit V2 [Source:NCBI gene;Acc:706067]	0.679250398	0.009588444	0.031301867
ENSMMUG00000049523	ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]	0.938812869	0.000813803	0.003788105
ENSMMUG00000023717	MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]	1.138230434	9.12E-09	1.35E-07
ENSMMUG00000059175		3.232664425	6.68E-19	4.56E-17
ENSMMUG00000053083	C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]	3.06752983	5.04E-10	9.39E-09
ENSMMUG00000012768	hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2 [Source:NCBI gene;Acc:100425114]	0.762228802	0.010061175	0.032588969
ENSMMUG00000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]	0.876282383	5.62E-16	2.71E-14
ENSMMUG00000055423	fibroblast growth factor 22 [Source:NCBI gene;Acc:702727]	0.379748361	0.014735401	0.044645377
ENSMMUG00000008672	ring finger protein 126 [Source:VGNC Symbol;Acc:VGNC:76791]	0.645557984	0.003390318	0.012925533
ENSMMUG00000016450	polypyrimidine tract binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76462]	0.405982735	0.008338242	0.027788405
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	2.368837253	4.04E-06	3.38E-05
ENSMMUG00000009674	elastase, neutrophil expressed [Source:VGNC Symbol;Acc:VGNC:72199]	1.96661735	0.001048272	0.004710583
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	2.640040881	2.47E-32	6.52E-30
ENSMMUG00000058621		0.892574639	6.99E-09	1.05E-07
ENSMMUG00000002638	WD repeat domain 18 [Source:VGNC Symbol;Acc:VGNC:79103]	0.982584203	1.19E-05	9.00E-05
ENSMMUG00000013577	transmembrane protein 259 [Source:NCBI gene;Acc:721161]	0.362068956	0.008382194	0.027909289
ENSMMUG00000015306	calponin 2 [Source:NCBI gene;Acc:721164]	0.60668624	8.91E-05	0.000539508
ENSMMUG00000015303	ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]	1.032830944	2.92E-09	4.68E-08

ENSMMUG00000058856	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.088016215	0.000147897	0.00084678
ENSMMUG00000010886	strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]	1.406124488	5.52E-05	0.000353947
ENSMMUG00000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.68665333	2.48E-09	4.04E-08
ENSMMUG00000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	1.258158939	1.03E-16	5.41E-15
ENSMMUG00000003047	DAZ associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71738]	0.278234832	0.013215466	0.040779712
ENSMMUG00000022104	family with sequence similarity 174 member C [Source:NCBI gene;Acc:706393]	0.735022364	2.09E-07	2.36E-06
		-		
ENSMMUG00000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]	0.834173071	3.11E-09	4.96E-08
		-		
ENSMMUG00000009014	methyl-CpG binding domain protein 3 [Source:VGNC Symbol;Acc:VGNC:81470]	0.722258038	0.011206128	0.03559176
ENSMMUG00000009017	transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:78287]	0.543219532	1.66E-06	1.52E-05
		-		
ENSMMUG00000013747	secretory carrier membrane protein 4 [Source:VGNC Symbol;Acc:VGNC:77135]	0.428777128	0.014896911	0.045012761
ENSMMUG00000006620	casein kinase 1 gamma 2 [Source:NCBI gene;Acc:709484]	0.541221543	0.003308105	0.01266524
ENSMMUG000000059725		1.181824861	0.000955261	0.004358202
ENSMMUG00000017949	ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]	0.619424633	1.42E-08	2.02E-07
ENSMMUG00000064612	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.757921737	0.004972554	0.017888149
ENSMMUG00000000452	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]	1.985796669	0.00016977	0.00095509
		-		
ENSMMUG000000055417		0.770346715	5.37E-09	8.25E-08
ENSMMUG00000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.594519115	2.10E-11	4.96E-10
ENSMMUG00000007268	thimet oligopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78347]	0.479913722	0.004119879	0.015200682
ENSMMUG00000007485	zinc finger protein 555 [Source:VGNC Symbol;Acc:VGNC:79705]	-1.02463731	7.86E-05	0.000482772
		-		
ENSMMUG00000002912	TLE family member 6, subcortical maternal complex member [Source:VGNC Symbol;Acc:VGNC:79879]	1.094159414	0.000156967	0.000892039
		-		
ENSMMUG00000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	0.920199049	2.45E-06	2.15E-05
ENSMMUG00000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	2.255079901	4.09E-13	1.26E-11
ENSMMUG00000015513	CUGBP Elav-like family member 5 [Source:NCBI gene;Acc:721694]	1.501974556	0.002365072	0.009497529
ENSMMUG00000060497		1.735971104	0.000398675	0.00202358
		-		
ENSMMUG00000028930	tight junction protein 3 [Source:NCBI gene;Acc:721760]	0.436305174	0.00785823	0.026412737
ENSMMUG00000044080	mitochondrial ribosomal protein L54 [Source:NCBI gene;Acc:713878]	0.916780406	0.000248371	0.001337249
ENSMMUG00000001917	megakaryocyte-associated tyrosine kinase [Source:NCBI gene;Acc:100430078]	1.179300119	1.45E-09	2.47E-08
		-		
ENSMMUG000000056147		1.027789415	0.000153293	0.000873204
		-		
ENSMMUG00000022765	death associated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:71734]	1.738298404	0.016782542	0.049671436
		-		
ENSMMUG00000022767	eukaryotic translation elongation factor 2 [Source:NCBI gene;Acc:721806]	2.257268237	0.006982324	0.023849165
		-		
ENSMMUG00000019564	mitogen-activated protein kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81453]	0.435927136	0.004587762	0.016664741
ENSMMUG00000028928	ankyrin repeat domain 24 [Source:NCBI gene;Acc:721829]	0.576333319	2.64E-05	0.000182244
ENSMMUG00000010100	YJU2 splicing factor homolog [Source:NCBI gene;Acc:718892]	1.166368197	0.001715237	0.007233653
		-		
ENSMMUG00000028925	HDGF like 2 [Source:NCBI gene;Acc:693476]	2.347433091	5.61E-05	0.000358413
		-		
ENSMMUG00000022656	perilipin 4 [Source:NCBI gene;Acc:693610]	1.589248082	6.57E-05	0.000411191
		-		
ENSMMUG00000021716	dipeptidyl peptidase 9 [Source:NCBI gene;Acc:695587]	0.468074284	0.009575641	0.031267092
ENSMMUG00000062995		0.486531806	0.010453571	0.033605389
ENSMMUG00000058275	arrestin domain containing 5 [Source:NCBI gene;Acc:697277]	0.652542801	0.002582307	0.010209138
		-		
ENSMMUG00000012677	lysine demethylase 4B [Source:VGNC Symbol;Acc:VGNC:73930]	0.792609482	9.76E-06	7.48E-05

ENSMMUG00000016665	NADH:ubiquinone oxidoreductase subunit A11 [Source:NCBI gene;Acc:697843]	-1.18249537	0.000519382	0.002556504
ENSMMUG00000011963	vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]	0.843037094	5.50E-06	4.46E-05
ENSMMUG00000011964	RAN binding protein 3 [Source:VGNC Symbol;Acc:VGNC:76655]	0.488226069	0.000882382	0.004068247
ENSMMUG00000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	-2.07748264	3.95E-08	5.12E-07
ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]	2.547634397	1.22E-08	1.77E-07
ENSMMUG00000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]	0.920289361	3.01E-07	3.30E-06
ENSMMUG00000063988		1.688211633	1.17E-05	8.85E-05
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	0.70834772	7.70E-09	1.15E-07
ENSMMUG00000057682		0.690863899	5.29E-08	6.72E-07
ENSMMUG00000028907	insulin receptor [Source:NCBI gene;Acc:706009]	2.493877586	8.51E-11	1.80E-09
ENSMMUG00000028906	Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]	1.786597798	9.34E-05	0.000562025
ENSMMUG00000009540	calmodulin regulated spectrin associated protein family member 3 [Source:VGNC Symbol;Acc:VGNC:70669]	0.720795048	3.72E-07	3.99E-06
ENSMMUG00000009539	XPA binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78943]	0.733468893	5.85E-08	7.34E-07
ENSMMUG00000022463	C-type lectin CD209L2 [Source:NCBI gene;Acc:574373]	1.286744541	0.000668572	0.00319285
ENSMMUG00000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.578427119	2.82E-35	1.21E-32
ENSMMUG00000014032	proline rich 36 [Source:NCBI gene;Acc:710443]	2.492118572	2.44E-05	0.000171194
ENSMMUG00000006544	ELAV like RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72200]	2.918411998	0.001907772	0.007926058
ENSMMUG00000010614	C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]	3.730896486	0.000529074	0.002596608
ENSMMUG00000061632	fibrillin 3 [Source:NCBI gene;Acc:709446]	0.635995645	0.009663651	0.031519069
ENSMMUG00000011178	ceramide synthase 4 [Source:VGNC Symbol;Acc:VGNC:71077]	-0.45852424	0.002159144	0.008831592
ENSMMUG00000014247	myosin IF [Source:NCBI gene;Acc:712101]	2.089332642	0.012866139	0.039888048
ENSMMUG00000064610	long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]	0.969456153	6.28E-06	5.02E-05
ENSMMUG00000049311	zinc finger protein 558 [Source:NCBI gene;Acc:712590]	0.676274804	1.29E-05	9.66E-05
ENSMMUG00000019965	methyl-CpG binding domain protein 3 like 1 [Source:VGNC Symbol;Acc:VGNC:74513]	1.822549314	0.001721292	0.007254978
ENSMMUG00000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	1.408566014	5.20E-20	3.92E-18
ENSMMUG00000018883	zinc finger protein 177 [Source:NCBI gene;Acc:709851]	0.640166807	0.001661103	0.00703392
ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	0.893090143	4.51E-06	3.73E-05
ENSMMUG00000001219	mitochondrial ribosomal protein L4 [Source:VGNC Symbol;Acc:VGNC:74750]	1.441259484	0.001012628	0.004573301
ENSMMUG00000014897	ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]	1.344329717	5.52E-09	8.47E-08
ENSMMUG00000003110	tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:78680]	0.486245772	0.002554395	0.010136873
ENSMMUG00000046883	autophagy related 4D cysteine peptidase [Source:NCBI gene;Acc:713111]	1.291494405	0.000483114	0.002398576
ENSMMUG00000011951	KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]	1.028943891	0.00030889	0.001616392
ENSMMUG00000016593	adaptor related protein complex 1 subunit mu 2 [Source:NCBI gene;Acc:720531]	2.188302314	0.000148995	0.000851391
ENSMMUG00000003744	solute carrier family 44 member 2 [Source:VGNC Symbol;Acc:VGNC:77498]	0.626927774	4.23E-06	3.51E-05
ENSMMUG00000014677	dynamamin 2 [Source:VGNC Symbol;Acc:VGNC:71957]	0.754037937	0.009838646	0.031996508
ENSMMUG00000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	1.878763186	4.51E-17	2.44E-15
ENSMMUG00000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.280443918	3.86E-25	4.88E-23
ENSMMUG00000018981	chromosome 19 C19orf38 homolog [Source:VGNC Symbol;Acc:VGNC:70457]	0.555018626	0.000278606	0.001483553
ENSMMUG00000004400	Yip1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:79717]	0.704545983	0.000194565	0.001078714
ENSMMUG00000003611	low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:74248]	0.868187216	0.001037287	0.004669879
ENSMMUG00000003612	SPC24 component of NDC80 kinetochore complex [Source:VGNC Symbol;Acc:VGNC:78002]	1.913174553	0.000497144	0.002458157

ENSMMUG00000023251	KN motif and ankyrin repeat domains 2 [Source:VGNC Symbol;Acc:VGNC:73938]	0.923714742	0.000276035	0.00147094
ENSMMUG00000009334	dedicator of cytokinesis 6 [Source:VGNC Symbol;Acc:VGNC:71863]	0.381675127	0.002829042	0.011052348
ENSMMUG00000043134	coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]	1.704923867	1.21E-08	1.74E-07
ENSMMUG00000022207	phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]	1.543401287	3.74E-07	4.00E-06
ENSMMUG00000010824	SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]	1.615615311	6.12E-07	6.23E-06
ENSMMUG00000038989	erythropoietin receptor [Source:NCBI gene;Acc:714546]	1.683055472	9.20E-05	0.000554212
ENSMMUG00000010826	ral guanine nucleotide dissociation stimulator like 3 [Source:VGNC Symbol;Acc:VGNC:76869]	0.867390643	0.010101006	0.032674304
ENSMMUG00000053329		0.867204195	0.013873628	0.042477028
ENSMMUG00000012587	zinc finger protein 69 [Source:NCBI gene;Acc:717030]	1.648475544	1.25E-13	4.18E-12
ENSMMUG00000005236	zinc finger protein 709 [Source:NCBI gene;Acc:717515]	0.925406814	0.004475815	0.016314011
ENSMMUG00000058614		2.068297051	0.000451182	0.002266355
ENSMMUG00000063236	bestrophin 2 [Source:NCBI gene;Acc:716545]	0.559451799	0.016592124	0.049234476
ENSMMUG00000017971	nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]	2.001735301	5.08E-06	4.14E-05
ENSMMUG00000057038		1.194439363	0.004523706	0.016452619
ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	1.779624304	3.67E-24	3.98E-22
ENSMMUG00000003555	calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]	1.077964501	1.00E-07	1.20E-06
ENSMMUG00000014137	adhesion G protein-coupled receptor L1 [Source:VGNC Symbol;Acc:VGNC:69658]	0.362383741	0.008772778	0.029089842
ENSMMUG00000060000		1.238315344	0.000948444	0.004331615
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	1.560084974	1.09E-16	5.69E-15
ENSMMUG00000005729	GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]	0.884617837	8.23E-07	8.07E-06
ENSMMUG00000017906	DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]	1.798308455	1.56E-06	1.44E-05
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	1.809786854	1.99E-26	2.97E-24
ENSMMUG00000060289		1.847034901	1.69E-33	5.02E-31
ENSMMUG00000053889	olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]	0.992087447	0.001733606	0.00729208
ENSMMUG00000053457	caspase 14 [Source:NCBI gene;Acc:718049]	1.993820706	8.89E-08	1.07E-06
ENSMMUG00000007726	synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]	2.098196183	1.13E-06	1.07E-05
ENSMMUG00000007729	ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]	1.370209923	9.14E-05	0.000551696
ENSMMUG00000013637	notch receptor 3 [Source:NCBI gene;Acc:719119]	0.514296055	0.010190467	0.032919736
ENSMMUG00000010734	cytochrome P450, family 4, subfamily F, polypeptide 8 [Source:NCBI gene;Acc:718335]	0.369355249	0.002221156	0.0090344
ENSMMUG00000004283	calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]	1.866588391	7.65E-05	0.000471416
ENSMMUG00000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.075244975	8.36E-10	1.49E-08
ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]	1.072740178	3.00E-08	3.97E-07
ENSMMUG00000042837	mediator complex subunit 26 [Source:NCBI gene;Acc:100424604]	0.970746835	1.46E-05	0.00010771
ENSMMUG00000057655		0.838078361	3.12E-06	2.67E-05
ENSMMUG00000013923	BRISC and BRCA1 A complex member 1 [Source:VGNC Symbol;Acc:VGNC:70126]	0.650795648	0.001058303	0.004751252
ENSMMUG00000016228	ankyrin repeat and LEM domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69715]	1.109420678	0.012754433	0.039571448
ENSMMUG00000023403	GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]	3.124234425	1.70E-08	2.35E-07
ENSMMUG00000000194	solute carrier family 27 member 1 [Source:VGNC Symbol;Acc:VGNC:77438]	0.602477227	0.000122372	0.000714443
ENSMMUG00000000196	niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]	0.741091906	0.005217962	0.018628073
ENSMMUG00000059371		1.191589279	0.00017851	0.000998879
ENSMMUG00000000198	collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]	0.816076333	4.62E-08	5.90E-07
ENSMMUG00000015476	unc-13 homolog A [Source:NCBI gene;Acc:720000]	0.748862737	3.84E-09	6.02E-08

ENSMMUG00000010996	Janus kinase 3 [Source:VGNC Symbol;Acc:VGNC:73812]	0.728940183	5.07E-07	5.27E-06
ENSMMUG00000038308	coiled-coil domain containing 124 [Source:NCBI gene;Acc:720072]	0.885671697	0.000593772	0.002873392
ENSMMUG00000007398	potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]	2.203677919	1.55E-10	3.16E-09
ENSMMUG00000007401	arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]	1.29372865	1.04E-10	2.18E-09
ENSMMUG00000003161	microtubule associated serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:74533]	0.538985949	0.001140527	0.00505637
ENSMMUG00000011317	RAB3D, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81542]	0.963717967	0.004939248	0.017781538
ENSMMUG00000005028	phosphodiesterase 4C [Source:NCBI gene;Acc:720171]	0.967321397	0.000151699	0.000865483
ENSMMUG00000016354	IQ motif containing N [Source:VGNC Symbol;Acc:VGNC:73683]	-0.88517047	6.64E-05	0.000414846
ENSMMUG00000038371	JunD proto-oncogene, AP-1 transcription factor subunit [Source:NCBI gene;Acc:720182]	0.794494001	0.004074982	0.01506945
ENSMMUG00000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	1.086135923	4.28E-12	1.13E-10
ENSMMUG00000016085	KxDL motif containing 1 [Source:NCBI gene;Acc:720235]	0.546634572	0.002140414	0.008760047
ENSMMUG00000054512		1.144341699	0.002356846	0.009472346
ENSMMUG00000009988	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	2.040763744	8.80E-26	1.20E-23
ENSMMUG00000064204	kelch like family member 26 [Source:NCBI gene;Acc:719583]	0.701693445	0.008870477	0.029340186
ENSMMUG00000006509	CREB regulated transcription coactivator 1 [Source:VGNC Symbol;Acc:VGNC:71418]	0.748517361	0.003868876	0.014440588
ENSMMUG00000056644		0.561470841	0.009514777	0.031110283
ENSMMUG00000023286	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	2.955716173	1.08E-39	7.87E-37
ENSMMUG00000050739		1.186338382	0.004009734	0.014873564
ENSMMUG00000019668	armadillo repeat containing 6 [Source:VGNC Symbol;Acc:VGNC:69899]	0.790990748	0.00468392	0.016958941
ENSMMUG00000008578	hyaluronan and proteoglycan link protein 4 [Source:VGNC Symbol;Acc:VGNC:73261]	1.228087573	2.89E-05	0.000198403
ENSMMUG00000008931	MAU2 sister chromatid cohesion factor [Source:NCBI gene;Acc:720347]	0.434074867	1.80E-05	0.000129549
ENSMMUG00000003164	GATA zinc finger domain containing 2A [Source:NCBI gene;Acc:720361]	0.719526666	4.73E-07	4.95E-06
ENSMMUG00000011351	YjeF N-terminal domain containing 3 [Source:NCBI gene;Acc:721218]	0.614576373	6.15E-05	0.000387977
ENSMMUG00000048108	PBX homeobox 4 [Source:NCBI gene;Acc:106994668]	2.183536672	0.014273275	0.043499076
ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	0.898719627	8.75E-11	1.85E-09
ENSMMUG00000056683		0.623779714	0.012802685	0.039699792
ENSMMUG00000061085		0.559195447	1.91E-05	0.00013651
ENSMMUG00000062866		1.205014896	6.96E-05	0.000432617
ENSMMUG00000061186		0.799210133	1.65E-06	1.51E-05
ENSMMUG00000060408		1.037438923	0.003488205	0.013229333
ENSMMUG00000003688	zinc finger protein 91 [Source:HGNC Symbol;Acc:HGNC:13166]	0.927020519	0.008836714	0.02923634
ENSMMUG00000059910		0.407874786	0.006218059	0.021583555
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	2.489899799	3.68E-29	7.99E-27
ENSMMUG00000063586	zinc finger protein 536 [Source:NCBI gene;Acc:713142]	1.882450975	9.31E-07	9.03E-06
ENSMMUG00000058740		0.961130036	7.10E-10	1.28E-08

ENSMMUG00000050177		-	1.431736501	1.24E-08	1.79E-07
ENSMMUG00000060455		-	2.630547642	6.46E-05	0.00040579
ENSMMUG0000008041	ankyrin repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:69693]		0.373406894	0.003641757	0.013740001
ENSMMUG00000015608	tudor domain containing 12 [Source:VGNC Symbol;Acc:VGNC:82254]		0.771056635	0.001381119	0.005982519
ENSMMUG00000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]		-1.03453077	7.71E-08	9.44E-07
ENSMMUG00000017939	FA core complex associated protein 24 [Source:VGNC Symbol;Acc:VGNC:72388]		0.794229285	0.00069175	0.003289492
ENSMMUG00000053887	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]		2.217913045	0.014831194	0.044879489
ENSMMUG00000064983			0.454501383	0.010569728	0.033888869
ENSMMUG00000061372			1.197932088	0.001319566	0.005750157
ENSMMUG00000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]		0.985157085	7.78E-06	6.08E-05
ENSMMUG00000006128	peptidase D [Source:VGNC Symbol;Acc:VGNC:82205]		-0.85292634	0.000870597	0.004024125
ENSMMUG00000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]		1.921883691	9.22E-20	6.67E-18
ENSMMUG00000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]		0.799541942	1.39E-06	1.30E-05
ENSMMUG00000008313	zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]		0.697832041	3.48E-05	0.000234559
ENSMMUG00000001538	GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]		0.557575033	0.000186592	0.001039666
ENSMMUG00000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]		1.079985787	1.88E-07	2.15E-06
ENSMMUG00000065025			1.194608693	2.70E-08	3.60E-07
ENSMMUG00000002381	lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]		0.592775068	3.17E-05	0.000215852
ENSMMUG00000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]		1.445486112	4.53E-15	1.92E-13
ENSMMUG00000048190	U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]		1.189423216	0.000258199	0.00138401
ENSMMUG00000002392	proline and serine rich 3 [Source:NCBI gene;Acc:710857]		1.050059509	0.00651373	0.02244373
ENSMMUG00000019749	NPHS1 adhesion molecule, nephrin [Source:NCBI gene;Acc:718929]		1.006638832	0.000214951	0.001180485
ENSMMUG00000019756	NFKB inhibitor delta [Source:VGNC Symbol;Acc:VGNC:75179]		0.781855663	0.000210699	0.001158882
ENSMMUG00000008004	transmembrane immune signaling adaptor TYROBP [Source:NCBI gene;Acc:574207]		-0.50633412	0.002656487	0.010454075
ENSMMUG00000062667	leucine rich repeat and fibronectin type III domain containing 3 [Source:NCBI gene;Acc:711565]		0.736293474	0.002398186	0.00960133
ENSMMUG00000062586			1.412524161	0.00421309	0.015501313
ENSMMUG00000053233			0.797164632	0.011273207	0.035772788
ENSMMUG00000019699	spectrin repeat containing nuclear envelope family member 4 [Source:VGNC Symbol;Acc:VGNC:78221]		2.270616471	0.004092628	0.015120682
ENSMMUG00000051879	CAP-Gly domain containing linker protein 3 [Source:NCBI gene;Acc:712058]		2.086765688	0.001237982	0.005438664
ENSMMUG00000019704	WD repeat domain 62 [Source:NCBI gene;Acc:719053]		3.301922583	0.006670569	0.022940635
ENSMMUG00000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]		-0.9038586	1.83E-10	3.66E-09
ENSMMUG00000000547	zinc finger protein 566 [Source:VGNC Symbol;Acc:VGNC:81619]		0.658738801	7.53E-06	5.91E-05
ENSMMUG00000016449	zinc finger protein 382 [Source:VGNC Symbol;Acc:VGNC:79078]		0.991083318	3.05E-05	0.000208029
ENSMMUG00000000107	zinc finger protein 585A [Source:NCBI gene;Acc:100424957]		0.409205167	0.004412457	0.016140887
ENSMMUG00000051305			1.194224638	6.06E-05	0.000382986
ENSMMUG00000028771	Yip1 interacting factor homolog B, membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:79852]		1.088915531	0.00089148	0.004104986

ENSMMUG00000062296	potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]	3.423153597	0.000658555	0.003150184
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	2.220230864	1.16E-08	1.67E-07
ENSMMUG00000038221	proteasome 26S subunit, non-ATPase 8 [Source:NCBI gene;Acc:721897]	0.920822083	2.77E-06	2.40E-05
ENSMMUG00000022973	gametogenetin [Source:VGNC Symbol;Acc:VGNC:72740]	0.535695576	0.015556259	0.046646316
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	3.990535033	1.91E-34	6.78E-32
ENSMMUG00000020468	family with sequence similarity 98 member C [Source:VGNC Symbol;Acc:VGNC:72584]	0.325326461	0.015545688	0.046633855
ENSMMUG00000028767	eukaryotic translation initiation factor 3 subunit K [Source:VGNC Symbol;Acc:VGNC:72102]	0.856794701	0.001467642	0.00629887
ENSMMUG00000028766	galectin 4 [Source:VGNC Symbol;Acc:VGNC:74257]	0.832700691	0.003787799	0.014195212
ENSMMUG00000004877	heterogeneous nuclear ribonucleoprotein L [Source:VGNC Symbol;Acc:VGNC:81187]	0.958454301	5.97E-05	0.00037812
ENSMMUG00000012787	acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]	1.864902989	3.09E-05	0.000210199
ENSMMUG00000013140	p21 (RAC1) activated kinase 4 [Source:NCBI gene;Acc:696676]	2.256643386	0.000491433	0.002434886
ENSMMUG00000005554	mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]	3.462085259	5.05E-27	8.07E-25
ENSMMUG00000038702	ZFP36 ring finger protein [Source:NCBI gene;Acc:722000]	3.872803321	0.000230251	0.001251742
ENSMMUG00000019369	pleckstrin homology and RhoGEF domain containing G2 [Source:VGNC Symbol;Acc:VGNC:76133]	2.397111328	0.005843907	0.020505158
ENSMMUG00000048215		2.368184578	5.31E-07	5.48E-06
ENSMMUG00000022726	dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]	2.307667124	1.47E-07	1.72E-06
ENSMMUG00000022724		-1.39610129	9.37E-05	0.000563371
ENSMMUG000000051261		1.587089199	4.01E-07	4.25E-06
ENSMMUG00000017191	zinc finger protein 546 [Source:VGNC Symbol;Acc:VGNC:79732]	0.921512319	0.004422497	0.016165581
ENSMMUG00000041976	zinc finger protein 780B [Source:NCBI gene;Acc:701034]	0.640612468	0.000199417	0.001100999
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	0.977852902	1.97E-08	2.69E-07
ENSMMUG000000053624		1.124542179	8.02E-05	0.000491588
ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	0.931833534	1.40E-11	3.39E-10
ENSMMUG00000022625	periaxin [Source:VGNC Symbol;Acc:VGNC:76248]	1.587886208	6.45E-07	6.51E-06
ENSMMUG00000015603	biliverdin reductase B [Source:VGNC Symbol;Acc:VGNC:70257]	1.733252282	0.005043548	0.018103223
ENSMMUG00000049359		2.794885037	0.001484943	0.006363979
ENSMMUG00000063763	cytochrome P450 2A13-like [Source:NCBI gene;Acc:114674219]	0.948678224	0.001366317	0.005923693
ENSMMUG00000009145	AXL receptor tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:70200]	0.500317655	0.004504378	0.016398734
ENSMMUG00000064979	B9 domain containing 2 [Source:NCBI gene;Acc:704873]	1.040803614	0.013349769	0.041141741
ENSMMUG00000013422	CEA cell adhesion molecule 4 [Source:NCBI gene;Acc:705453]	1.320247149	0.006452998	0.022282003
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	1.283215653	1.82E-15	8.25E-14
ENSMMUG00000022305	Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]	1.106437257	1.76E-07	2.02E-06
ENSMMUG00000022309	ETS repressor factor like [Source:NCBI gene;Acc:722195]	1.460049218	0.000470176	0.002343945
ENSMMUG00000017427	ATPase Na ⁺ /K ⁺ transporting subunit alpha 3 [Source:NCBI gene;Acc:706513]	2.272822781	4.64E-05	0.000304623
ENSMMUG00000013376	POU class 2 homeobox 2 [Source:NCBI gene;Acc:706835]	0.821162286	5.78E-06	4.67E-05
ENSMMUG00000050799		3.414608895	0.00248492	0.009910366
ENSMMUG00000064250		2.578398391	0.000441553	0.002223367

ENSMMUG00000055813	pregnancy-specific beta-1-glycoprotein 5-like [Source:NCBI gene;Acc:114674020]	0.669196547	0.004751659	0.01717853
ENSMMUG00000059128		-2.44910551	4.66E-07	4.89E-06
ENSMMUG00000061010	putative pregnancy-specific beta-1-glycoprotein 7 [Source:NCBI gene;Acc:114673986]	3.717319434	0.00070669	0.003348166
ENSMMUG00000021062	CD177 molecule [Source:VGNC Symbol;Acc:VGNC:70912]	4.002885531	2.44E-16	1.22E-14
ENSMMUG00000003568	testis expressed 101 [Source:VGNC Symbol;Acc:VGNC:79869]	1.392879497	5.34E-08	6.76E-07
ENSMMUG00000044157	pleckstrin homology like domain family B member 3 [Source:NCBI gene;Acc:722281]	0.697945504	0.001814342	0.007581228
		-		
ENSMMUG00000019265	zinc finger protein 575 [Source:VGNC Symbol;Acc:VGNC:79667]	0.716638302	0.004986159	0.017919355
ENSMMUG00000004616	plasminogen activator, urokinase receptor [Source:VGNC Symbol;Acc:VGNC:76163]	1.790086075	0.003762586	0.014126218
ENSMMUG00000021267	potassium calcium-activated channel subfamily N member 4 [Source:NCBI gene;Acc:712383]	0.647924574	0.000427458	0.002158375
		-		
ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	0.805515703	3.86E-07	4.11E-06
ENSMMUG00000064975	zinc finger protein 221 [Source:NCBI gene;Acc:100423743]	-1.1759783	0.000462067	0.002310654
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	1.853989241	1.55E-17	8.84E-16
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	1.79981689	3.48E-34	1.12E-31
		-		
ENSMMUG00000014301	nectin cell adhesion molecule 2 [Source:VGNC Symbol;Acc:VGNC:75396]	0.510984881	0.000946133	0.004323778
		-		
ENSMMUG00000014303	translocase of outer mitochondrial membrane 40 [Source:VGNC Symbol;Acc:VGNC:78419]	2.289182744	0.005874499	0.020602556
		-		
ENSMMUG00000028749	apolipoprotein C1 [Source:NCBI gene;Acc:106994799]	1.206199258	0.013860021	0.042444306
		-		
ENSMMUG00000002472	CLPTM1 regulator of GABA type A receptor forward trafficking [Source:VGNC Symbol;Acc:VGNC:71265]	1.420942009	0.000276214	0.001471354
		-		
ENSMMUG00000014155	CLK4 associating serine/arginine rich protein [Source:VGNC Symbol;Acc:VGNC:71198]	1.316257986	0.002549595	0.010123862
ENSMMUG00000022931	NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]	0.803302089	1.69E-06	1.54E-05
ENSMMUG00000018879	exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]	0.541467111	0.000220367	0.001206583
ENSMMUG00000018672	microtubule affinity regulating kinase 4 [Source:VGNC Symbol;Acc:VGNC:74508]	-0.54505367	0.00094786	0.004330308
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	3.072123399	4.12E-15	1.77E-13
ENSMMUG00000000715	protein phosphatase 1 regulatory subunit 13 like [Source:NCBI gene;Acc:714389]	0.491782423	0.001893037	0.00787159
		-		
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	1.449946645	2.02E-10	4.01E-09
		-		
ENSMMUG00000000718	ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]	0.956363075	7.36E-06	5.80E-05
ENSMMUG00000006936	gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]	0.798969647	2.74E-08	3.65E-07
ENSMMUG00000032809	mml-mir-642 [Source:miRBase;Acc:MI0007885]	0.776703218	0.00031035	0.001622442
		-		
ENSMMUG00000006937	small nuclear ribonucleoprotein D2 polypeptide [Source:NCBI gene;Acc:715183]	1.642951377	0.003468711	0.013165705
		-		
ENSMMUG000000051573	SIX homeobox 5 [Source:NCBI gene;Acc:715373]	0.408507632	0.003145684	0.012113593
ENSMMUG00000016457	DM1 protein kinase [Source:NCBI gene;Acc:715328]	0.753541979	0.012936151	0.04007092
		-		
ENSMMUG000000051115		3.001256059	3.87E-09	6.06E-08
ENSMMUG00000017927	protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]	2.655847443	2.71E-05	0.00018744
ENSMMUG00000017930	striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]	3.553021728	0.000520417	0.002560169
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	2.149160349	3.74E-10	7.17E-09
ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.105916803	4.82E-08	6.15E-07
ENSMMUG00000057454	transmembrane protein 160 [Source:NCBI gene;Acc:716996]	0.934292775	0.012605082	0.039204125
ENSMMUG00000055893		0.896897463	0.001693281	0.007151429
		-		
ENSMMUG00000014727	NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]	0.615121823	0.000369141	0.001888178
ENSMMUG00000054090		1.132409138	0.000279699	0.001487737
		-		
ENSMMUG00000006857	epididymal sperm binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72046]	0.765570622	0.006745647	0.02316595

ENSMMUG00000042157	caspase recruitment domain-containing protein 8 [Source:NCBI gene;Acc:718594]	0.420900905	0.00127351	0.005572853
ENSMMUG00000022155	sulfotransferase family 2B member 1 [Source:NCBI gene;Acc:718739]	0.837217919	0.001086157	0.004849346
ENSMMUG00000055036	MEF2 activating motif and SAP domain containing transcriptional regulator [Source:NCBI gene;Acc:718823]	0.463940799	0.010475377	0.033645726
ENSMMUG00000018415	Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]	0.613553367	0.000925743	0.004242355
ENSMMUG00000004019	izumo sperm-egg fusion 1 [Source:VGNC Symbol;Acc:VGNC:73670]	0.755162862	0.000208211	0.001146065
ENSMMUG00000028736	hydroxysteroid 17-beta dehydrogenase 14 [Source:NCBI gene;Acc:106994816]	0.982227071	4.51E-05	0.000297223
ENSMMUG00000048854	TUB like protein 2 [Source:NCBI gene;Acc:718915]	0.934890126	0.01172285	0.036894366
ENSMMUG00000003904	nucleobindin 1 [Source:VGNC Symbol;Acc:VGNC:75548]	1.732954064	0.002987458	0.011587159
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	1.739557603	3.24E-11	7.36E-10
ENSMMUG00000022116	PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]	1.329800177	0.00380572	0.014247422
ENSMMUG00000007551	ribosomal protein L13a [Source:NCBI gene;Acc:574314]	0.57954075	0.00835481	0.02783086
ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]	1.883649641	9.46E-11	1.99E-09
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	2.661672886	4.45E-24	4.72E-22
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	2.46176924	1.39E-17	7.94E-16
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]	3.618072182	6.36E-06	5.08E-05
ENSMMUG00000003926	BCL2 like 12 [Source:NCBI gene;Acc:718981]	3.653396103	0.000643162	0.003081622
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	1.468312555	1.57E-05	0.000114566
ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	1.674325134	3.80E-07	4.05E-06
ENSMMUG00000020175	mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]	-1.98735336	1.21E-06	1.15E-05
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	2.422022389	1.21E-10	2.50E-09
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	3.05966563	7.48E-61	5.43E-57
ENSMMUG00000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]	2.198571115	8.65E-12	2.18E-10
ENSMMUG00000050456	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.663158771	0.003475563	0.013188269
ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.148051395	5.38E-16	2.62E-14
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	3.69028618	1.45E-09	2.47E-08
ENSMMUG00000010837	VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]	2.098902671	5.03E-05	0.00032599
ENSMMUG00000055885	napsin-A [Source:NCBI gene;Acc:719235]	0.773531549	0.007786682	0.026208764
ENSMMUG00000023418	nuclear receptor subfamily 1 group H member 2 [Source:VGNC Symbol;Acc:VGNC:75504]	0.622991954	1.74E-06	1.58E-05
ENSMMUG00000021269	Josephin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73919]	3.566930949	0.002236373	0.009083585
ENSMMUG00000046099	chromosome 19 C19orf81 homolog [Source:NCBI gene;Acc:719661]	2.230887379	0.002329778	0.009392118
ENSMMUG00000059087		2.940582104	0.000339559	0.00175477
ENSMMUG00000009357	SH3 and multiple ankyrin repeat domains 1 [Source:VGNC Symbol;Acc:VGNC:77236]	0.834698329	0.006214553	0.02158169
ENSMMUG00000012841	kallikrein 3 [Source:NCBI gene;Acc:719444]	0.814032424	0.006730094	0.023123463
ENSMMUG00000065035	kallikrein-2 [Source:NCBI gene;Acc:719436]	0.702902197	0.001185067	0.005236267
ENSMMUG00000060764		0.455326966	8.27E-06	6.42E-05
ENSMMUG00000013597	kallikrein related peptidase 5 [Source:VGNC Symbol;Acc:VGNC:74191]	0.736475564	0.003796424	0.014216542
ENSMMUG00000061396	kallikrein related peptidase 6 [Source:NCBI gene;Acc:719776]	0.552673199	0.012131216	0.037975824
ENSMMUG00000064856	kallikrein related peptidase 14 [Source:NCBI gene;Acc:722692]	1.089748693	0.005939413	0.020795099

ENSMMUG00000044243	sialic acid-binding Ig-like lectin 9 [Source:NCBI gene;Acc:719831]	-	1.373348014	0.002945033	0.011456232
ENSMMUG00000047370	IgLON family member 5 [Source:NCBI gene;Acc:719890]	-	0.895074672	0.002893894	0.011275404
ENSMMUG00000044652	sialic acid-binding Ig-like lectin 13 [Source:NCBI gene;Acc:719667]	-	0.738085453	0.00023079	0.001253267
ENSMMUG00000012764	zinc finger protein 175 [Source:VGNC Symbol;Acc:VGNC:78856]	-	0.655803526	0.002598808	0.010265996
ENSMMUG00000012761	sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]	-	0.788975278	1.05E-06	1.01E-05
ENSMMUG00000013053	sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]	-	1.316277229	3.94E-06	3.30E-05
ENSMMUG00000013049	formyl peptide receptor 1 [Source:NCBI gene;Acc:719782]	-	0.565529699	0.013856064	0.042441131
ENSMMUG00000051078		-	0.518611695	0.0122171	0.038218202
ENSMMUG00000002310	zinc finger protein 577 [Source:VGNC Symbol;Acc:VGNC:79733]	-	0.849606996	1.99E-12	5.54E-11
ENSMMUG00000023136	zinc finger protein 613 [Source:VGNC Symbol;Acc:VGNC:79548]	-	0.607089729	4.62E-06	3.80E-05
ENSMMUG00000052090		-	0.659236771	3.51E-07	3.79E-06
ENSMMUG00000023137	zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]	-	1.346521349	9.50E-08	1.14E-06
ENSMMUG00000003712	zinc finger protein 615 [Source:VGNC Symbol;Acc:VGNC:79454]	-	0.699146538	0.010042638	0.032536177
ENSMMUG00000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	-	1.542226997	4.09E-11	9.10E-10
ENSMMUG00000001768	zinc finger protein 616 [Source:NCBI gene;Acc:719902]	-	0.560713834	0.002357966	0.009474226
ENSMMUG00000047412	zinc finger protein 28 [Source:NCBI gene;Acc:100430953]	-	1.281148235	0.015475021	0.046460219
ENSMMUG00000058137	zinc finger protein 816 [Source:NCBI gene;Acc:720058]	-	1.451629863	2.56E-07	2.84E-06
ENSMMUG00000064519		-	1.274007684	0.000531204	0.002604423
ENSMMUG00000057187		-	0.656417906	4.24E-06	3.52E-05
ENSMMUG00000060222		-	0.524263056	5.49E-05	0.000352428
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	-	1.555686146	3.97E-06	3.32E-05
ENSMMUG00000038768	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.233464899	0.000842414	0.003911264
ENSMMUG00000042225		-	0.739980993	5.74E-05	0.00036555

SD 3 vs. Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]	3.343599475	3.69E-09	5.37E-08
ENSMMUG000000049101	olfactory receptor 2T10 [Source:NCBI gene;Acc:100431025]	0.573831174	0.002586152	0.010064164
ENSMMUG000000048289	olfactory receptor 2T5-like [Source:NCBI gene;Acc:707109]	0.686132722	0.00605578	0.020823983
		-		
ENSMMUG000000017368	olfactory receptor 2G6 [Source:NCBI gene;Acc:694380]	0.593613626	0.000705621	0.003255982
ENSMMUG000000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	2.239824045	4.74E-36	1.51E-33
ENSMMUG000000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	0.960147986	1.87E-11	3.98E-10
ENSMMUG000000064763		0.915809282	0.000294069	0.001507763
ENSMMUG000000050041	olfactory receptor 2L5 [Source:NCBI gene;Acc:697549]	0.780300535	0.014563109	0.0439274
		-		
ENSMMUG000000005949	olfactory receptor 2B11 [Source:NCBI gene;Acc:709256]	1.885754004	0.000530889	0.002542574
		-		
ENSMMUG000000004566	zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]	4.311556736	8.96E-05	0.000517722
		-		
ENSMMUG000000000021	catsper channel auxiliary subunit epsilon [Source:VGNC Symbol;Acc:VGNC:70657]	3.099989041	0.000692543	0.00320407
ENSMMUG000000064143	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.852588937	0.009452933	0.030522329
ENSMMUG000000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	0.898714638	4.48E-07	4.38E-06
ENSMMUG000000005667	fumarate hydratase [Source:VGNC Symbol;Acc:VGNC:72659]	0.630463415	4.27E-05	0.000267101
ENSMMUG000000064824	gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]	1.347808692	0.000105109	0.000597079
ENSMMUG000000061845		1.676062063	0.001535774	0.006381083
ENSMMUG000000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	1.534198336	3.65E-65	8.53E-62
		-		
ENSMMUG000000015132	galectin 8 [Source:VGNC Symbol;Acc:VGNC:74258]	0.874152266	0.012292518	0.038038325
		-		
ENSMMUG000000021238	EDAR associated death domain [Source:VGNC Symbol;Acc:VGNC:72043]	0.569741852	0.013322214	0.040789827
ENSMMUG000000064750		0.462251979	0.011538192	0.036124151
		-		
ENSMMUG000000046785		1.102143023	0.014646597	0.044103334
		-		
ENSMMUG000000012615	pecanex 2 [Source:NCBI gene;Acc:712828]	1.558539559	5.44E-05	0.000332136
ENSMMUG000000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	2.850278924	2.56E-10	4.52E-09
		-		
ENSMMUG000000040055		0.929020086	7.07E-06	5.34E-05
		-		
ENSMMUG000000061796		1.049076035	0.000456244	0.002223814
ENSMMUG000000052961		2.018212337	3.44E-05	0.000219711
ENSMMUG000000064226		1.469629467	0.000928679	0.004126422
		-		
ENSMMUG000000016204	translin associated factor X [Source:NCBI gene;Acc:713347]	2.981227919	0.00484172	0.017263014
		-		
ENSMMUG000000005801	glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]	0.984991032	4.55E-05	0.000282191
ENSMMUG000000009508	TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]	2.308684157	5.61E-05	0.000341011
ENSMMUG000000022094	ATP binding cassette subfamily B member 10 [Source:NCBI gene;Acc:574117]	0.350985506	0.002525289	0.009853122
		-		
ENSMMUG000000017720	RAB4A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81545]	0.484822183	0.010891359	0.034375317
		-		
ENSMMUG000000062933		0.578721867	0.000448955	0.00219362
ENSMMUG000000005185	regulator of G protein signaling 4 [Source:VGNC Symbol;Acc:VGNC:76690]	2.748560523	0.007637159	0.02549295
ENSMMUG000000058513		0.290079373	0.0082678	0.027311047
		-		
ENSMMUG000000039738	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.865808556	0.00464427	0.01665216

ENSMMUG0000005585	transmembrane and coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:79118]	-0.57132283	0.016040233	0.047584555
ENSMMUG00000023462	immunoglobulin like domain containing receptor 2 [Source:VGNC Symbol;Acc:VGNC:73619]	1.463128609	0.005432523	0.018992838
ENSMMUG00000023463	maelstrom spermatogenic transposon silencer [Source:VGNC Symbol;Acc:VGNC:74362]	1.642334672	0.012518639	0.03861612
ENSMMUG00000063120	cellular repressor of E1A stimulated genes 1 [Source:NCBI gene;Acc:701021]	0.839485204	0.000204721	0.001093222
ENSMMUG00000023372	RCSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76850]	1.012665829	1.38E-05	9.70E-05
ENSMMUG00000009184	myelin protein zero like 1 [Source:NCBI gene;Acc:698437]	1.300689927	0.000134976	0.000749588
ENSMMUG00000060729	T-box transcription factor 19 [Source:NCBI gene;Acc:699312]	0.428054771	0.007033679	0.023715624
ENSMMUG00000056707		1.781516748	0.004986738	0.017671714
ENSMMUG00000059777		0.905852174	2.48E-05	0.000163497
ENSMMUG00000021078	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70176]	1.787603949	6.20E-06	4.75E-05
ENSMMUG00000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]	0.808667511	1.18E-08	1.56E-07
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]	0.815705909	1.39E-06	1.22E-05
ENSMMUG00000013039	solute carrier family 19 member 2 [Source:VGNC Symbol;Acc:VGNC:81571]	0.408979341	0.003009782	0.011437986
ENSMMUG00000042510	coagulation factor V [Source:NCBI gene;Acc:704695]	1.150408811	4.19E-18	2.17E-16
ENSMMUG00000013044	selectin P [Source:VGNC Symbol;Acc:VGNC:77157]	1.317655232	1.12E-10	2.12E-09
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]	2.640242526	1.19E-47	8.77E-45
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]	2.662484121	2.09E-60	4.18E-57
ENSMMUG00000016581	methyltransferase like 18 [Source:VGNC Symbol;Acc:VGNC:74606]	1.148320454	0.009035975	0.029399414
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	1.698466584	3.81E-15	1.40E-13
ENSMMUG00000010081	kinesin associated protein 3 [Source:VGNC Symbol;Acc:VGNC:73842]	0.442956501	0.005840316	0.020187024
ENSMMUG00000059773	methyltransferase like 11B [Source:NCBI gene;Acc:705503]	1.099016073	0.000130305	0.000726545
ENSMMUG00000063298		-1.05217604	0.002486289	0.009717178
ENSMMUG00000014674	golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]	1.061174045	1.52E-08	1.98E-07
ENSMMUG00000007279	phosphatidylinositol glycan anchor biosynthesis class C [Source:VGNC Symbol;Acc:VGNC:75986]	0.664266413	0.000341735	0.001718232
ENSMMUG00000007280	SUN domain containing ossification factor [Source:VGNC Symbol;Acc:VGNC:78112]	3.503121217	0.002917735	0.011151649
ENSMMUG00000022798	aspartyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:71708]	0.809794228	6.67E-05	0.000397142
ENSMMUG00000056971	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.748000501	2.09E-08	2.66E-07
ENSMMUG00000060229		1.074124174	0.009116322	0.029612735
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]	0.862397461	8.38E-10	1.36E-08
ENSMMUG00000000630	ring finger and CCCH-type domains 1 [Source:VGNC Symbol;Acc:VGNC:76861]	-0.45649521	5.70E-05	0.000345571
ENSMMUG00000000546	KIAA0040 ortholog [Source:NCBI gene;Acc:100423509]	-1.03001686	0.000109335	0.000618729
ENSMMUG00000023216	astrotactin 1 [Source:VGNC Symbol;Acc:VGNC:70167]	0.392284204	0.0143378	0.04338778
ENSMMUG00000022935	BMP/retinoic acid inducible neural specific 2 [Source:VGNC Symbol;Acc:VGNC:70303]	0.916256832	9.69E-06	7.06E-05
ENSMMUG00000020320	protein transport protein Sec16B [Source:NCBI gene;Acc:709635]	0.735199419	0.000181987	0.000983433
ENSMMUG00000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	2.140066643	6.78E-24	6.30E-22
ENSMMUG00000059117	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.244615659	0.000287845	0.001479747
ENSMMUG00000056058	C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]	1.964536245	0.011059433	0.034843054
ENSMMUG00000054486	testis expressed 35 [Source:NCBI gene;Acc:717255]	2.208146948	0.001124222	0.004880793
ENSMMUG00000003770	NPHS2 stomatin family member, podocin [Source:VGNC Symbol;Acc:VGNC:75167]	0.567994492	0.012685993	0.039037893
ENSMMUG00000055256	family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]	1.086773138	2.12E-05	0.000142453
ENSMMUG00000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	1.100251236	3.15E-11	6.47E-10

ENSMMUG00000053617	torsin 1A interacting protein 2 [Source:NCBI gene;Acc:716691]	0.504872414	0.005067992	0.017901372
ENSMMUG00000014873	torsin 1A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79810]	0.41291784	0.007470812	0.024985259
		-		
ENSMMUG00000002135	centrosomal protein 350 [Source:VGNC Symbol;Acc:VGNC:71084]	0.400977209	0.008277263	0.027330363
ENSMMUG00000054568		1.095286724	0.000347374	0.001738326
ENSMMUG00000061785		0.957825041	4.17E-13	1.14E-11
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	3.707446721	1.08E-15	4.19E-14
ENSMMUG00000049444		1.888284252	0.003551564	0.013172064
ENSMMUG00000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	1.45995333	3.69E-29	6.08E-27
		-		
ENSMMUG00000005634	ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]	1.089445881	1.75E-06	1.50E-05
		-		
ENSMMUG00000055481	regulator of G protein signaling 16 [Source:NCBI gene;Acc:715599]	1.244338456	7.61E-07	7.09E-06
		-		
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	1.917935006	1.36E-07	1.47E-06
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	-1.77937384	9.68E-05	0.000553746
		-		
ENSMMUG00000013878	ring finger protein 2 [Source:NCBI gene;Acc:717024]	1.011123434	0.000637702	0.002975871
		-		
ENSMMUG00000013879	tRNA methyltransferase 1 like [Source:VGNC Symbol;Acc:VGNC:79048]	1.510219718	0.003100109	0.011701974
		-		
ENSMMUG00000016857	prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]	1.041624195	3.96E-08	4.76E-07
		-		
ENSMMUG00000059986		0.840017501	0.001070109	0.004683565
		-		
ENSMMUG00000022647	cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]	0.701951639	0.005101586	0.017997367
ENSMMUG00000021082	potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]	0.376922871	0.014745525	0.044325079
		-		
ENSMMUG00000045497	complement factor H [Source:NCBI gene;Acc:717346]	1.086387304	0.000256292	0.001339538
		-		
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	2.796035032	4.24E-11	8.50E-10
ENSMMUG00000012218	calmodulin regulated spectrin associated protein family member 2 [Source:VGNC Symbol;Acc:VGNC:70666]	-1.10683842	5.67E-05	0.00034431
		-		
ENSMMUG00000063678	innate immunity activator [Source:NCBI gene;Acc:710962]	0.316794803	9.91E-05	0.000565974
		-		
ENSMMUG00000017414	calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]	1.001437212	7.89E-05	0.000461471
ENSMMUG00000064915	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.732533035	0.000860593	0.003871701
ENSMMUG00000050920	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.317507434	0.005530653	0.019273448
		-		
ENSMMUG00000055783		2.316198371	6.52E-05	0.000388955
		-		
ENSMMUG00000017114	pleckstrin homology domain containing A6 [Source:VGNC Symbol;Acc:VGNC:76040]	0.920277785	0.008755227	0.028652171
ENSMMUG00000063658	leucine rich repeat neuronal 2 [Source:NCBI gene;Acc:100429709]	1.340873464	0.000268541	0.001394491
		-		
ENSMMUG00000017508	neurofascin [Source:VGNC Symbol;Acc:VGNC:75278]	0.611614591	5.89E-08	6.87E-07
		-		
ENSMMUG00000018797	contactin 2 [Source:VGNC Symbol;Acc:VGNC:71284]	1.668256563	0.010578563	0.033516309
		-		
ENSMMUG00000004113	major facilitator superfamily domain containing 4A [Source:VGNC Symbol;Acc:VGNC:74575]	0.722081489	3.70E-05	0.000234996
		-		
ENSMMUG00000055835	nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]	1.333125502	1.22E-07	1.33E-06
ENSMMUG00000023570	interleukin 19 [Source:NCBI gene;Acc:694806]	3.077285655	0.015161599	0.045342526
ENSMMUG00000011221	Fc fragment of IgA and IgM receptor [Source:VGNC Symbol;Acc:VGNC:72567]	1.447355658	0.002400222	0.009430741
ENSMMUG00000022171	YOD1 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:79471]	0.311794662	0.016524768	0.04872305
ENSMMUG00000040888	complement C3b/C4b receptor 1 like [Source:HGNC Symbol;Acc:HGNC:2335]	0.986954239	3.83E-09	5.57E-08

ENSMMUG00000051230		0.932179979	3.86E-07	3.83E-06
ENSMMUG00000057560		0.908596923	6.73E-08	7.78E-07
		-		
ENSMMUG00000064202		1.231688246	0.000610681	0.002883359
		-		
ENSMMUG00000045482	GO/G1 switch 2 [Source:NCBI gene;Acc:717581]	0.700964031	1.76E-07	1.86E-06
ENSMMUG00000016099	hedgehog acyltransferase [Source:NCBI gene;Acc:712333]	1.788320935	2.82E-05	0.000183677
		-		
ENSMMUG00000016102	potassium voltage-gated channel subfamily H member 1 [Source:NCBI gene;Acc:712190]	2.281704869	0.011654798	0.036432286
ENSMMUG00000011914	prospero homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76427]	3.348899636	6.93E-09	9.56E-08
		-		
ENSMMUG00000015634	centromere protein F [Source:VGNC Symbol;Acc:VGNC:71009]	2.628460027	2.35E-05	0.00015589
		-		
ENSMMUG00000058133		2.169690108	0.000343129	0.001723389
		-		
ENSMMUG00000017396	3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]	1.261736161	3.84E-05	0.000242418
		-		
ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	1.096793912	1.00E-17	4.89E-16
		-		
ENSMMUG00000026897	mml-mir-215 [Source:miRBase;Acc:MI0003025]	1.356944365	0.010163116	0.032427163
		-		
ENSMMUG00000027053	mml-mir-194-1 [Source:miRBase;Acc:MI0003024]	1.380862153	0.014578853	0.043946529
		-		
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	0.974420993	1.52E-13	4.40E-12
		-		
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	0.818935752	5.85E-09	8.19E-08
ENSMMUG00000023042	olfactomedin like 2B [Source:VGNC Symbol;Acc:VGNC:75455]	0.452570624	0.003167952	0.011909969
ENSMMUG00000004042	Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]	1.061405913	0.00971258	0.031181206
ENSMMUG00000054686		2.41587196	2.88E-33	7.22E-31
ENSMMUG00000008251	cilia and flagella associated protein 126 [Source:VGNC Symbol;Acc:VGNC:71150]	1.708270472	0.010551714	0.033446358
ENSMMUG00000004516	apolipoprotein A2 [Source:NCBI gene;Acc:719946]	1.204669293	0.010051672	0.032115423
ENSMMUG00000004512	Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]	1.675752121	1.63E-06	1.41E-05
ENSMMUG00000004520	NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]	0.944227862	0.000319618	0.001619807
ENSMMUG00000050419	ADAM metalloproteinase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]	1.29438112	2.57E-09	3.82E-08
ENSMMUG00000060555		1.198438502	1.89E-07	1.98E-06
		-		
ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]	1.416511079	5.09E-06	3.97E-05
		-		
ENSMMUG00000022631	ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]	1.113156216	0.001440128	0.006044571
		-		
ENSMMUG00000022632	ubiquitin-fold modifier conjugating enzyme 1 [Source:VGNC Symbol;Acc:VGNC:79643]	0.840140192	0.00035867	0.001787357
		-		
ENSMMUG00000002005	Rho GTPase activating protein 30 [Source:NCBI gene;Acc:718236]	0.435837135	0.009836586	0.031507183
		-		
ENSMMUG00000015812	CD48 molecule [Source:VGNC Symbol;Acc:VGNC:70769]	0.502745768	0.00350212	0.013005887
		-		
ENSMMUG00000011335	Fc receptor like 6 [Source:VGNC Symbol;Acc:VGNC:72602]	0.468624156	1.31E-05	9.21E-05
		-		
ENSMMUG00000004492	absent in melanoma 2 [Source:NCBI gene;Acc:719260]	2.743968271	7.90E-10	1.28E-08
ENSMMUG00000000730	spectrin alpha, erythrocytic 1 [Source:VGNC Symbol;Acc:VGNC:77868]	0.821756223	0.001239241	0.005320844
ENSMMUG00000010626	CD1c molecule [Source:VGNC Symbol;Acc:VGNC:70756]	1.86743893	0.000615467	0.002898208
		-		
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	1.154454323	2.35E-14	7.77E-13
ENSMMUG00000019835	CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]	1.227197384	3.03E-07	3.06E-06
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.445883374	6.57E-24	6.14E-22

ENSMMUG00000019830	Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]	0.732436089	0.000457433	0.002228833
ENSMMUG00000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	1.503868409	5.99E-17	2.74E-15
ENSMMUG00000008974	Fc receptor like 5 [Source:NCBI gene;Acc:718771]	2.680380841	4.06E-21	2.80E-19
ENSMMUG00000060011	hyaluronan and proteoglycan link protein 2 [Source:NCBI gene;Acc:718500]	3.355041228	0.000145163	0.000801744
ENSMMUG00000016096	lamin A/C [Source:VGNC Symbol;Acc:VGNC:74427]	2.013606506	1.32E-05	9.28E-05
ENSMMUG00000004648	KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]	0.636684703	2.58E-05	0.000169333
ENSMMUG00000021312	synaptotagmin 11 [Source:VGNC Symbol;Acc:VGNC:78167]	0.527401568	0.002276886	0.008994021
ENSMMUG00000062397		0.826896313	6.46E-05	0.00038581
ENSMMUG00000023146	ASH1 like histone lysine methyltransferase [Source:NCBI gene;Acc:717778]	1.623017097	0.009431688	0.030467764
ENSMMUG00000023145	RUN and SH3 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77036]	0.865350619	0.015208418	0.045443776
ENSMMUG00000023141	CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]	1.414628489	4.55E-06	3.60E-05
ENSMMUG00000016093	adenosine deaminase RNA specific [Source:VGNC Symbol;Acc:VGNC:69502]	-2.34709425	1.90E-12	4.72E-11
ENSMMUG00000010978	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]	0.958801447	8.69E-11	1.67E-09
ENSMMUG00000031655	S100 calcium binding protein A3 [Source:VGNC Symbol;Acc:VGNC:76957]	0.635096931	0.00060726	0.002871073
ENSMMUG00000008917	S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]	-0.8181739	6.70E-07	6.29E-06
ENSMMUG00000051645		2.400978608	0.000276477	0.001430112
ENSMMUG00000042618	involucrin [Source:NCBI gene;Acc:713728]	1.413065968	9.43E-05	0.000541528
ENSMMUG00000017740	sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]	2.37709267	4.70E-08	5.58E-07
ENSMMUG00000055038		1.789443341	0.000617485	0.002905701
ENSMMUG00000054634	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]	2.089999248	0.01163412	0.036375757
ENSMMUG00000058472	late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]	1.548560176	0.000298718	0.001529919
ENSMMUG00000055266	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]	2.193123043	4.11E-05	0.000257891
ENSMMUG00000051816	keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]	1.458600437	0.000227928	0.001206127
ENSMMUG00000001966	chromosome 1 C1orf68 homolog [Source:VGNC Symbol;Acc:VGNC:70436]	1.839836732	0.005758724	0.019929561
ENSMMUG000000049843	late cornified envelope protein 2D [Source:NCBI gene;Acc:100424118]	2.927867255	0.004151819	0.015126257
ENSMMUG00000062996		1.889633872	0.000309006	0.001572844
ENSMMUG00000001967	late cornified envelope 5A [Source:VGNC Symbol;Acc:VGNC:74061]	2.66245583	0.007429039	0.024863345
ENSMMUG00000009040	cornulin [Source:VGNC Symbol;Acc:VGNC:71397]	1.933033535	5.60E-05	0.000340439
ENSMMUG00000056511		1.80556472	1.06E-06	9.54E-06
ENSMMUG00000059472	filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]	1.232002928	4.42E-07	4.32E-06
ENSMMUG00000021386	aph-1 homolog A, gamma-secretase subunit [Source:VGNC Symbol;Acc:VGNC:69924]	0.545999408	0.00110247	0.004801224
ENSMMUG00000021385	carbonic anhydrase 14 [Source:VGNC Symbol;Acc:VGNC:70489]	0.528646448	0.000847587	0.003823
ENSMMUG00000013681	pleckstrin homology domain containing O1 [Source:VGNC Symbol;Acc:VGNC:76101]	0.762093037	3.82E-05	0.000241765
ENSMMUG00000013673	vacuolar protein sorting 45 homolog [Source:VGNC Symbol;Acc:VGNC:78964]	-0.54983127	0.000497325	0.002399031
ENSMMUG00000007244	OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]	0.881032418	2.79E-05	0.000181517
ENSMMUG00000052282		0.818492209	0.000135807	0.000753332
ENSMMUG00000007246	myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]	0.866539653	9.51E-06	6.94E-05
ENSMMUG00000007256	splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]	1.173337979	2.62E-08	3.26E-07

ENSMMUG0000007257	synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]	-	0.904103023	1.71E-10	3.13E-09
ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]	-	-0.98976725	2.48E-10	4.40E-09
ENSMMUG00000054615		-	1.598030154	1.39E-07	1.50E-06
ENSMMUG00000051523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.661977416	0.000489869	0.002367954
ENSMMUG00000040506	H2B clustered histone 18 [Source:HGNC Symbol;Acc:HGNC:24700]	-	1.036110365	0.000161294	0.000881114
ENSMMUG00000004362	Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]	-	0.844756502	0.000438607	0.002146052
ENSMMUG00000062140		-	1.430513747	1.76E-06	1.50E-05
ENSMMUG00000024186	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	1.579961173	0.000807453	0.003675079
ENSMMUG00000036857	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	1.423796658	0.005165139	0.018194108
ENSMMUG00000064626	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	1.210467304	0.015532921	0.046314725
ENSMMUG00000061239		-	1.288013322	1.15E-06	1.02E-05
ENSMMUG00000054590		-	1.142587843	2.21E-05	0.000147963
ENSMMUG00000054496	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	1.764235674	0.002262511	0.008951257
ENSMMUG00000048493	neuroblastoma breakpoint family member 6-like protein [Source:NCBI gene;Acc:711999]	-	2.640179907	0.013787574	0.041967258
ENSMMUG00000018375	notch receptor 2 [Source:NCBI gene;Acc:713798]	-	0.574468703	3.44E-05	0.000220178
ENSMMUG00000001978	adenosine monophosphate deaminase 1 [Source:VGNC Symbol;Acc:VGNC:69806]	-	0.615037916	0.003777426	0.013910174
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	-	2.411960236	4.32E-42	2.15E-39
ENSMMUG00000019527	DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]	-	1.179049911	3.17E-05	0.000204488
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	-	1.161337085	2.65E-09	3.92E-08
ENSMMUG00000017819	putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]	-	0.872113398	0.000224775	0.001191239
ENSMMUG00000007766	suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]	-	0.913654557	7.43E-05	0.000437114
ENSMMUG00000007765	Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]	-	0.706170553	9.13E-06	6.70E-05
ENSMMUG00000037458	endoplasmic reticulum resident protein 29 [Source:NCBI gene;Acc:720396]	-	-1.29224899	0.011495102	0.03600532
ENSMMUG00000050825	potassium voltage-gated channel subfamily D member 3 [Source:NCBI gene;Acc:641437]	-	0.581897406	1.32E-05	9.32E-05
ENSMMUG00000065322	ATP synthase peripheral stalk-membrane subunit b [Source:NCBI gene;Acc:704072]	-	0.711511708	5.87E-06	4.53E-05
ENSMMUG00000016056	potassium voltage-gated channel subfamily A member 10 [Source:VGNC Symbol;Acc:VGNC:73963]	-	0.542658748	0.000151626	0.000834149
ENSMMUG00000062177		-	0.370544977	0.004147719	0.015115245
ENSMMUG00000004614	potassium voltage-gated channel subfamily C member 4 [Source:VGNC Symbol;Acc:VGNC:73974]	-	1.122778232	0.001041709	0.00456925
ENSMMUG00000021544	solute carrier family 6 member 17 [Source:VGNC Symbol;Acc:VGNC:77805]	-	1.404952873	0.000513533	0.002468725
ENSMMUG00000005426	striatin interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:78217]	-	-0.45232785	0.003097003	0.011696545
ENSMMUG00000022715	adenosylhomocysteinase like 1 [Source:VGNC Symbol;Acc:VGNC:81350]	-	0.704581362	1.15E-05	8.26E-05
ENSMMUG00000020851	glutathione S-transferase mu 5 [Source:NCBI gene;Acc:100426406]	-	0.690438621	0.004025557	0.014712117

ENSMMUG00000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	0.716615667	3.04E-10	5.31E-09
ENSMMUG00000008713	myosin binding protein H like [Source:NCBI gene;Acc:698183]	1.005852524	7.08E-09	9.74E-08
ENSMMUG00000015380	proline and serine rich coiled-coil 1 [Source:VGNC Symbol;Acc:VGNC:76307]	-1.07765419	1.62E-10	2.97E-09
ENSMMUG00000015375	cadherin EGF LAG seven-pass G-type receptor 2 [Source:VGNC Symbol;Acc:VGNC:71149]	1.002079108	5.39E-13	1.46E-11
ENSMMUG00000021837	seryl-tRNA synthetase 1 [Source:NCBI gene;Acc:695046]	0.903583689	7.34E-09	1.00E-07
ENSMMUG00000010156	fibronectin type III domain containing 7 [Source:VGNC Symbol;Acc:VGNC:72582]	0.464185149	0.009643336	0.030973089
ENSMMUG00000031785		1.637983349	1.21E-10	2.27E-09
ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]	1.669604217	1.17E-06	1.04E-05
ENSMMUG00000008197	netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]	1.81709034	0.00028165	0.001452583
ENSMMUG00000060795		2.204263791	2.22E-10	3.97E-09
ENSMMUG00000061766		2.173521615	6.97E-05	0.000412958
ENSMMUG00000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	1.752803576	5.55E-57	8.65E-54
ENSMMUG00000060790		2.591062636	0.002945683	0.011233971
ENSMMUG00000022906	vascular cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:78761]	0.668991436	7.31E-06	5.51E-05
ENSMMUG00000019106	cell division cycle 14A [Source:VGNC Symbol;Acc:VGNC:70791]	0.458779579	0.003008731	0.011437093
ENSMMUG00000019105	RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]	2.005092117	9.69E-06	7.06E-05
ENSMMUG00000007706	dihydrolipoamide branched chain transacylase E2 [Source:VGNC Symbol;Acc:VGNC:71744]	2.060063666	0.006143112	0.021076139
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]	1.279531129	0.004415194	0.015946011
ENSMMUG00000038667		1.500687894	5.84E-05	0.00035379
ENSMMUG00000008518	phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]	1.227966972	5.28E-12	1.24E-10
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]	0.831017863	3.50E-19	2.00E-17
ENSMMUG00000049494		1.68605598	5.39E-07	5.17E-06
ENSMMUG00000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]	1.932904145	4.55E-16	1.89E-14
ENSMMUG00000049297		0.971821538	2.78E-10	4.89E-09
ENSMMUG00000050661		0.531334061	0.005081423	0.017935261
ENSMMUG00000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]	0.61236284	0.000966226	0.004274255
ENSMMUG00000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]	1.030892764	1.09E-19	6.48E-18
ENSMMUG00000015924	BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]	0.943360889	4.11E-07	4.05E-06
ENSMMUG00000015922	formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]	0.651693909	3.82E-06	3.07E-05
ENSMMUG00000016812	coiled-coil domain containing 18 [Source:VGNC Symbol;Acc:VGNC:70913]	0.944804581	4.04E-05	0.000254283
ENSMMUG00000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]	2.056870021	2.80E-21	1.96E-19
ENSMMUG00000024513	Y RNA [Source:RFAM;Acc:RF00019]	3.35570914	0.014116001	0.042818231
ENSMMUG00000029649	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C3 (subunit 9)-like [Source:NCBI gene;Acc:706691]	4.140627814	0.00015802	0.000865591
ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]	3.382555621	6.53E-07	6.17E-06
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]	-3.58063551	1.66E-39	7.05E-37
ENSMMUG00000051155	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	4.586191118	2.59E-05	0.000169828
ENSMMUG00000006819	helicase for meiosis 1 [Source:NCBI gene;Acc:704516]	0.640580746	0.004320129	0.015678358
ENSMMUG00000007635	zinc finger protein 644 [Source:VGNC Symbol;Acc:VGNC:79789]	1.895695867	0.000293596	0.00150589
ENSMMUG00000049678		2.385322428	1.70E-16	7.32E-15
ENSMMUG00000060600		-0.76344972	0.001077233	0.004705932

ENSMMUG0000000663	guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]	-	0.867315361	0.000842711	0.003807133
ENSMMUG0000000662	guanylate-binding protein 1 [Source:NCBI gene;Acc:694538]	-	0.736267462	1.57E-07	1.68E-06
ENSMMUG00000037887	RBMX like 1 [Source:NCBI gene;Acc:100424767]	-	0.741289351	4.29E-09	6.19E-08
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	-	1.824019353	1.32E-27	1.89E-25
ENSMMUG00000020588	protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]	-	0.688518477	4.16E-08	4.98E-07
ENSMMUG00000065295		-	2.221687825	1.35E-30	2.55E-28
ENSMMUG00000060366		-	2.776651841	0.016702611	0.049123473
ENSMMUG00000016554	selenoprotein F [Source:NCBI gene;Acc:712469]	-	0.649178448	0.016566422	0.048784319
ENSMMUG00000010306	calcium-activated chloride channel regulator 4 [Source:NCBI gene;Acc:712123]	-	-1.00169387	0.009441636	0.030492873
ENSMMUG00000006836	chloride channel accessory 1 [Source:NCBI gene;Acc:574295]	-	1.439187414	5.18E-06	4.03E-05
ENSMMUG00000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]	-	2.034462587	0.00032636	0.001648016
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	-	0.926941347	5.20E-14	1.64E-12
ENSMMUG00000005361	mucolipin 3 [Source:VGNC Symbol;Acc:VGNC:74505]	-	0.763906224	0.000169684	0.000922281
ENSMMUG00000010127	chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]	-	1.813872112	5.47E-08	6.40E-07
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	-	1.797212105	2.51E-21	1.78E-19
ENSMMUG00000059938		-	1.747762355	5.26E-05	0.000321813
ENSMMUG00000000404	uricase [Source:NCBI gene;Acc:714004]	-	1.314758103	0.001741636	0.007124551
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	-	1.014493129	1.61E-12	4.04E-11
ENSMMUG00000057763		-	1.689729849	5.93E-05	0.000358257
ENSMMUG00000023345	adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]	-	1.361298683	5.88E-05	0.00035559
ENSMMUG00000049326	GIPC PDZ domain containing family member 2 [Source:NCBI gene;Acc:707432]	-	0.556258841	0.009233924	0.029925426
ENSMMUG00000050425	DnaJ heat shock protein family (Hsp40) member B4 [Source:NCBI gene;Acc:707206]	-	0.535843154	0.00041191	0.002027452
ENSMMUG00000041837	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.192891886	0.007715138	0.025722629
ENSMMUG00000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	-	1.729584467	1.53E-31	3.29E-29
ENSMMUG00000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]	-	0.690059679	2.10E-12	5.19E-11
ENSMMUG00000049908	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.127152851	0.000267337	0.001389498
ENSMMUG00000003264	leptin receptor overlapping transcript [Source:VGNC Symbol;Acc:VGNC:74158]	-	0.864430504	0.000159522	0.000873477
ENSMMUG00000017259	DnaJ heat shock protein family (Hsp40) member C6 [Source:NCBI gene;Acc:698682]	-	1.341805964	8.31E-08	9.46E-07
ENSMMUG00000053254	adenylate kinase 4 [Source:NCBI gene;Acc:698560]	-	0.735703359	1.94E-05	0.000131878
ENSMMUG00000053072		-	0.800377331	8.49E-05	0.000492448
ENSMMUG00000018566	Janus kinase 1 [Source:VGNC Symbol;Acc:VGNC:73810]	-	0.941512921	0.000475434	0.002305327
ENSMMUG00000018565	ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]	-	2.494865186	5.11E-06	3.98E-05
ENSMMUG00000012538	ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]	-	0.86928417	3.51E-05	0.000224118
ENSMMUG00000004668	receptor tyrosine kinase like orphan receptor 1 [Source:VGNC Symbol;Acc:VGNC:76715]	-	0.653861501	0.009292767	0.03008831
ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]	-	-1.01184368	1.96E-16	8.38E-15
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	-	1.299619762	1.26E-15	4.86E-14

ENSMMUG00000010351	KN motif and ankyrin repeat domains 4 [Source:VGNC Symbol;Acc:VGNC:73916]	0.744859774	3.61E-05	0.000229716
ENSMMUG00000049952		0.481630661	0.003070904	0.011619882
ENSMMUG00000013840	nuclear factor I A [Source:VGNC Symbol;Acc:VGNC:75334]	0.451479243	0.012386499	0.038259481
ENSMMUG00000055834		1.287350842	0.010749675	0.034004667
ENSMMUG00000022762	OMA1 zinc metalloproteinase [Source:VGNC Symbol;Acc:VGNC:75485]	2.420285541	4.91E-14	1.56E-12
ENSMMUG00000010406	protein kinase AMP-activated catalytic subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:76400]	3.397415153	0.000550609	0.002629834
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]	1.706209604	8.87E-26	1.05E-23
ENSMMUG00000059612		0.485265154	2.55E-09	3.80E-08
ENSMMUG00000005740	ubiquitin specific peptidase 24 [Source:VGNC Symbol;Acc:VGNC:78743]	0.488556796	0.000336991	0.001696814
ENSMMUG00000032084	prolyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:75707]	0.793346324	3.35E-06	2.71E-05
ENSMMUG00000006754	tetratricopeptide repeat domain 4 [Source:VGNC Symbol;Acc:VGNC:78668]	0.897976974	9.93E-06	7.21E-05
ENSMMUG00000009114	maestro heat like repeat family member 7 [Source:NCBI gene;Acc:715310]	1.381791216	1.16E-05	8.32E-05
ENSMMUG00000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	1.913247688	1.94E-17	9.30E-16
ENSMMUG00000015371	microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]	0.896240096	4.21E-05	0.000263677
ENSMMUG00000005986	Kruppel like factor 17 [Source:NCBI gene;Acc:702810]	1.171943395	0.007984551	0.026482345
ENSMMUG00000015555	ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]	1.551312987	4.77E-06	3.75E-05
ENSMMUG00000012479	lysine demethylase 4A [Source:NCBI gene;Acc:701272]	1.893298133	0.01420443	0.043039915
ENSMMUG00000012477	protein tyrosine phosphatase receptor type F [Source:VGNC Symbol;Acc:VGNC:76615]	0.447586836	0.000312688	0.001589858
ENSMMUG00000016111	chromosome 1 C1orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70432]	1.589649704	0.009204028	0.029849234
ENSMMUG00000022381	prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]	1.984886786	0.000671711	0.003116944
ENSMMUG00000057076	claudin 19 [Source:NCBI gene;Acc:697807]	4.16333663	0.000353988	0.00176591
ENSMMUG00000013129	peptidylprolyl isomerase H [Source:NCBI gene;Acc:697669]	2.039622395	4.74E-05	0.000292566
ENSMMUG00000013128	coiled-coil domain containing 30 [Source:VGNC Symbol;Acc:VGNC:70866]	0.57705398	3.22E-07	3.24E-06
ENSMMUG00000001034	zinc finger MYND-type containing 12 [Source:VGNC Symbol;Acc:VGNC:79312]	0.561510625	0.000493981	0.002385364
ENSMMUG00000014138	forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]	1.269189916	0.0001121	0.000632842
ENSMMUG00000052046		0.3877727	0.010821652	0.034186084
ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]	1.231910214	8.65E-13	2.25E-11
ENSMMUG00000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	2.114494734	7.75E-26	9.29E-24
ENSMMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	0.881119288	6.45E-10	1.06E-08
ENSMMUG00000018664	collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]	1.931816103	7.45E-15	2.63E-13
ENSMMUG00000005992	zinc metalloproteinase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]	1.948504122	5.90E-07	5.62E-06
ENSMMUG00000052510	transmembrane and coiled-coil domains 2 [Source:NCBI gene;Acc:693977]	2.458864707	0.009542239	0.030752274
ENSMMUG00000032180	RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]	1.597100385	2.90E-07	2.94E-06
ENSMMUG00000009189	palmitoyl-protein thioesterase 1 [Source:VGNC Symbol;Acc:VGNC:76386]	0.582290837	2.10E-09	3.18E-08
ENSMMUG00000009188	cyclase associated actin cytoskeleton regulatory protein 1 [Source:NCBI gene;Acc:693719]	0.532508062	2.71E-07	2.77E-06
ENSMMUG00000016220	tRNA isopentenyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:79239]	1.517422407	0.014897832	0.044706247
ENSMMUG00000058881	bone morphogenetic protein 8b [Source:NCBI gene;Acc:100427030]	1.070149237	0.002874575	0.011001683
ENSMMUG00000052910		0.580722629	0.015691455	0.046727815

ENSMMUG00000061825	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.538933301	0.015051685	0.045061865
ENSMMUG00000059855	Smad nuclear interacting protein 1 [Source:NCBI gene;Acc:713733]	0.890464708	0.001920565	0.007786088
ENSMMUG00000010328	MYST/Esa1 associated factor 6 [Source:VGNC Symbol;Acc:VGNC:74580]	1.135761678	0.012566146	0.038754137
ENSMMUG00000010323	zinc finger CCCH-type containing 12A [Source:VGNC Symbol;Acc:VGNC:79595]	0.927940411	0.001258257	0.005387647
ENSMMUG00000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	1.967411636	9.06E-23	7.47E-21
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	1.400801898	1.97E-10	3.56E-09
ENSMMUG00000019815	transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]	1.610512166	0.000160126	0.000876101
ENSMMUG00000002741	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]	2.887059131	0.004866336	0.017333155
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	0.686789466	1.25E-05	8.86E-05
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	0.943970382	5.70E-07	5.44E-06
ENSMMUG00000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	1.264812142	4.85E-22	3.65E-20
ENSMMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]	0.637507289	2.22E-06	1.86E-05
ENSMMUG00000055316		3.694635527	0.001432219	0.006016779
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]	4.364398473	2.32E-07	2.40E-06
ENSMMUG00000053323		3.069754191	0.00293638	0.011207637
ENSMMUG00000009951	MARCKS like 1 [Source:VGNC Symbol;Acc:VGNC:74723]	-3.4634967	0.003100042	0.011701974
ENSMMUG00000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	2.483076349	2.99E-21	2.08E-19
ENSMMUG00000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	2.086642019	2.01E-50	2.01E-47
ENSMMUG00000060894	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.160710343	4.05E-06	3.24E-05
ENSMMUG00000041790	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.731916984	0.001987339	0.00801048
ENSMMUG00000046901	protein tyrosine phosphatase 4A2 [Source:NCBI gene;Acc:706489]	1.172762193	1.09E-07	1.20E-06
ENSMMUG00000005466	SPOC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77997]	0.680500855	0.001353842	0.005729189
ENSMMUG00000023401	adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]	0.958698505	3.21E-05	0.000206323
ENSMMUG00000023398	collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]	0.927635816	6.63E-07	6.23E-06
ENSMMUG00000023397	penta-EF-hand domain containing 1 [Source:NCBI gene;Acc:706038]	0.642593549	0.000108578	0.000614939
ENSMMUG00000023396	hypocretin receptor 1 [Source:VGNC Symbol;Acc:VGNC:73356]	0.565541811	0.009043237	0.029415006
ENSMMUG00000060319	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.141149466	0.00010322	0.000587739
ENSMMUG00000013188	serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]	0.684241332	0.000167729	0.000912716
ENSMMUG00000049574	antizyme inhibitor 2-like [Source:NCBI gene;Acc:705256]	0.556085239	0.00225633	0.008935474
ENSMMUG00000012156	zinc finger CCHC-type containing 17 [Source:VGNC Symbol;Acc:VGNC:79840]	1.217510335	2.52E-20	1.62E-18
ENSMMUG00000064353	fatty acid binding protein 3 [Source:NCBI gene;Acc:717237]	0.549237388	0.001998779	0.008054274
ENSMMUG00000013520	pumilio RNA binding family member 1 [Source:VGNC Symbol;Acc:VGNC:76479]	0.360939042	0.000268695	0.001394491

ENSMMUG00000063979		-	0.732640362	1.19E-12	3.05E-11
ENSMMUG00000013519	syndecan 3 [Source:VGNC Symbol;Acc:VGNC:76999]	-	0.352239877	0.003265661	0.012232623
ENSMMUG00000057452		-	1.072571948	0.000862988	0.003877501
ENSMMUG00000057173		-	3.001074757	0.000184733	0.00099712
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	-	1.828227497	4.45E-06	3.52E-05
ENSMMUG00000007110	serine and arginine rich splicing factor 4 [Source:NCBI gene;Acc:717401]	-	2.233328793	0.000800965	0.003652662
ENSMMUG00000016893	solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]	-	0.809114429	7.46E-06	5.61E-05
ENSMMUG00000015115	terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]	-	0.711452848	1.36E-05	9.55E-05
ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	-	0.890833678	2.31E-09	3.47E-08
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	-	1.235794207	4.18E-08	5.00E-07
ENSMMUG00000012697	AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]	-	1.859995941	3.16E-12	7.61E-11
ENSMMUG00000056266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.62841358	2.61E-07	2.68E-06
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	-	1.960326547	4.73E-08	5.60E-07
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	-	2.095582082	5.72E-11	1.13E-09
ENSMMUG00000032217	transmembrane protein 50A [Source:VGNC Symbol;Acc:VGNC:79857]	-	0.377547007	0.006144139	0.021076139
ENSMMUG00000002420	RUNX family transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:76948]	-	1.118147159	0.010207547	0.032537587
ENSMMUG00000063165		-	3.223516837	0.011690236	0.036494251
ENSMMUG00000050770		-	1.009934659	4.68E-06	3.69E-05
ENSMMUG00000004216	alpha-L-fucosidase 1 [Source:VGNC Symbol;Acc:VGNC:72826]	-	0.988242522	0.001711049	0.007021961
ENSMMUG00000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]	-	1.540376329	3.24E-16	1.37E-14
ENSMMUG00000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	-	1.942864657	1.53E-15	5.84E-14
ENSMMUG00000058332	testis expressed 46 [Source:NCBI gene;Acc:709002]	-	1.454290439	0.000275049	0.001423776
ENSMMUG00000041482	lactamase beta like 1 [Source:NCBI gene;Acc:718590]	-	0.871377603	0.001714818	0.007032868
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	-	1.433437502	4.40E-31	9.35E-29
ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	-	1.251253056	1.14E-23	1.04E-21
ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]	-	0.874413026	6.62E-09	9.18E-08
ENSMMUG00000006669	ubiquitin protein ligase E3 component n-recogin 4 [Source:VGNC Symbol;Acc:VGNC:79845]	-	0.927202428	4.42E-10	7.48E-09
ENSMMUG00000052628	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.602004134	0.010957191	0.034551987
ENSMMUG00000050018		-	0.634049541	0.001899583	0.007709943
ENSMMUG00000004754	intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]	-	1.049304704	1.02E-06	9.17E-06
ENSMMUG00000064850	kelch domain containing 7A [Source:NCBI gene;Acc:713771]	-	0.816437356	0.012444471	0.038404229
ENSMMUG00000010849	Rho guanine nucleotide exchange factor 10 like [Source:VGNC Symbol;Acc:VGNC:69908]	-	0.524049215	8.27E-06	6.13E-05
ENSMMUG00000022437	peptidyl arginine deiminase 6 [Source:VGNC Symbol;Acc:VGNC:75657]	-	4.063253607	2.50E-05	0.000165047
ENSMMUG00000051619	peptidyl arginine deiminase 3 [Source:NCBI gene;Acc:700560]	-	0.437142477	0.002472481	0.009679396
ENSMMUG00000001616	peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]	-	1.129484159	0.000137466	0.00076193

ENSMMUG00000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	1.562360635	1.91E-15	7.23E-14
ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	1.611396183	4.34E-20	2.66E-18
ENSMMUG00000018235	chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]	1.382002107	1.73E-06	1.48E-05
ENSMMUG00000001910	heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]	1.60076285	1.23E-06	1.09E-05
ENSMMUG00000001911	steroid receptor associated and regulated protein [Source:VGNC Symbol;Acc:VGNC:78008]	1.429213871	5.52E-09	7.79E-08
ENSMMUG00000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.483701842	5.35E-17	2.47E-15
		-		
ENSMMUG00000002802	agmatinase [Source:NCBI gene;Acc:713190]	0.850191686	0.011701297	0.036512524
ENSMMUG00000032244	DnaJ heat shock protein family (Hsp40) member C16 [Source:NCBI gene;Acc:700894]	-0.91298711	0.016124435	0.047783802
		-		
ENSMMUG00000018163	caspase 9 [Source:NCBI gene;Acc:694544]	2.901695265	0.000561849	0.002676223
		-		
ENSMMUG00000031821	chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]	1.256823169	0.009933447	0.031788391
ENSMMUG00000053550		-2.10096705	0.00263024	0.010200255
		-		
ENSMMUG00000060541		1.822012441	0.001557519	0.00645995
		-		
ENSMMUG00000053235		1.516513922	0.002489271	0.009720705
		-		
ENSMMUG00000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]	1.522963023	9.37E-06	6.85E-05
		-		
ENSMMUG00000055233	PRAME family member 17-like [Source:NCBI gene;Acc:100427847]	0.702394263	1.13E-05	8.14E-05
		-		
ENSMMUG00000054309	PRAME family member 5 [Source:NCBI gene;Acc:722781]	1.372804899	0.006501217	0.02213318
ENSMMUG00000057550		-0.89562168	0.000690846	0.003197731
		-		
ENSMMUG00000057874	arylacetamide deacetylase like 3 [Source:NCBI gene;Acc:722778]	0.545130891	0.003725377	0.013762108
ENSMMUG00000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	0.992740088	5.22E-14	1.64E-12
ENSMMUG00000064242		0.876705962	0.001312113	0.005582453
ENSMMUG00000021447	TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]	4.866520003	2.18E-05	0.000146558
ENSMMUG00000023449	mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]	1.880959527	6.53E-07	6.17E-06
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	1.10503226	3.57E-11	7.25E-10
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	0.805486751	1.20E-11	2.65E-10
ENSMMUG00000062316	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.028018708	1.90E-08	2.44E-07
ENSMMUG00000037413	U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]	0.843560069	0.000324913	0.001643078
ENSMMUG00000051669		0.539230114	0.000139687	0.00077363
ENSMMUG00000055655	natriuretic peptide B [Source:NCBI gene;Acc:715053]	0.748415071	0.009885748	0.031650192
		-		
ENSMMUG00000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	1.261477899	2.52E-14	8.30E-13
		-		
ENSMMUG00000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	1.291775684	6.19E-12	1.43E-10
		-		
ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	1.410441552	1.10E-10	2.09E-09
		-		
ENSMMUG00000053062	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.056280235	0.001223902	0.005263042
		-		
ENSMMUG00000006187	angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]	1.161948262	4.54E-09	6.54E-08
ENSMMUG00000062294		3.337053783	0.001484086	0.006203083
		-		
ENSMMUG00000058771	PHD finger protein 13 [Source:NCBI gene;Acc:704846]	0.905683065	0.013828243	0.042063656
		-		
ENSMMUG00000032281	zinc finger and BTB domain containing 48 [Source:VGNC Symbol;Acc:VGNC:79959]	0.888417575	0.000187982	0.001012704
		-		
ENSMMUG00000023677	TNF receptor superfamily member 25 [Source:VGNC Symbol;Acc:VGNC:78584]	2.331148448	0.008016878	0.026564433

ENSMMUG00000023676	espin [Source:NCBI gene;Acc:722532]	-	1.267627069	5.37E-11	1.06E-09
ENSMMUG00000054719		-	0.811571585	0.000265819	0.001384171
ENSMMUG00000032284	leucine rich repeat containing 47 [Source:VGNC Symbol;Acc:VGNC:74388]	-	2.739885252	0.016204305	0.047959682
ENSMMUG00000012334	actin related protein T2 [Source:VGNC Symbol;Acc:VGNC:69522]	-	1.640320779	0.016033871	0.047575746
ENSMMUG00000051487		-	3.183640376	0.000110482	0.000624461
ENSMMUG00000050239		-	1.745467542	7.57E-10	1.23E-08
ENSMMUG00000001896	G protein subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73095]	-	1.169527528	0.012261876	0.037957679
ENSMMUG00000010879	NAD kinase [Source:VGNC Symbol;Acc:VGNC:75047]	-	1.289882354	4.64E-05	0.000287054
ENSMMUG00000005578	solute carrier family 35 member E2 [Source:VGNC Symbol;Acc:VGNC:77590]	-	1.026368808	0.001367382	0.00578251
ENSMMUG00000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]	-	1.105765273	2.77E-05	0.000180525
ENSMMUG00000012961	mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]	-	0.800979635	0.000510966	0.002460604
ENSMMUG00000048805		-	0.890649175	0.000401583	0.001982188
ENSMMUG00000060167		-	-1.16085683	1.43E-05	9.97E-05
ENSMMUG00000001551	SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]	-	0.886420048	8.05E-06	5.99E-05
ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]	-	0.812268001	9.80E-07	8.87E-06
ENSMMUG00000050086		-	1.471287544	0.013552706	0.041360085
ENSMMUG00000006904	cyclin L2 [Source:NCBI gene;Acc:114669744]	-	0.827251425	0.005556569	0.019344531
ENSMMUG00000013862	ArfGAP with coiled-coil, ankyrin repeat and PH domains 3 [Source:VGNC Symbol;Acc:VGNC:69434]	-	1.188546378	1.11E-06	9.90E-06
ENSMMUG00000045769	tubulin tyrosine ligase like 10 [Source:NCBI gene;Acc:702662]	-	0.818364445	1.66E-11	3.59E-10
ENSMMUG00000056613		-	1.051395783	1.16E-14	4.02E-13
ENSMMUG00000053601		-	2.21362644	0.000558161	0.002661372
ENSMMUG00000065323		-	3.476786828	0.004742894	0.016955653
ENSMMUG00000006596	CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]	-	0.839010154	0.001151559	0.004985584
ENSMMUG00000049551		-	1.32373921	0.000571133	0.002715835
ENSMMUG00000031449	zinc finger CW-type and PWWP domain containing 2 [Source:NCBI gene;Acc:702617]	-	1.354553502	0.005847302	0.020196237
ENSMMUG00000055585		-	2.273824682	2.64E-11	5.49E-10
ENSMMUG00000000056	5-azacytidine induced 2 [Source:VGNC Symbol;Acc:VGNC:70115]	-	1.080769765	0.002528557	0.009863129
ENSMMUG00000051896		-	2.998932054	0.004174001	0.015195227
ENSMMUG00000060958	leucine rich repeat containing 3B [Source:NCBI gene;Acc:701323]	-	1.643904355	0.002253696	0.008930088
ENSMMUG00000051975		-	2.11799056	6.80E-16	2.73E-14
ENSMMUG00000054204		-	0.477106198	0.008098056	0.026814412
ENSMMUG00000020377	collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]	-	0.723838694	0.001680367	0.00691223

ENSMMUG00000020294	phosphoinositide-3-kinase regulatory subunit 4 [Source:VGNC Symbol;Acc:VGNC:84060]	-	0.774133777	0.00467203	0.016743131
ENSMMUG00000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	-	2.712951242	1.55E-14	5.24E-13
ENSMMUG00000001154	U8 snoRNA-decapping enzyme-like [Source:NCBI gene;Acc:717946]	-	0.508787456	0.009216793	0.029883719
ENSMMUG00000024125	small nucleolar RNA, H/ACA box 58 [Source:HGNC Symbol;Acc:HGNC:32652]	-	3.457005277	0.001616559	0.006677174
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	-	1.459877384	1.08E-07	1.19E-06
ENSMMUG00000016004	acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]	-	1.345850395	0.00011609	0.000653788
ENSMMUG00000016005	DnaJ heat shock protein family (Hsp40) member C13 [Source:VGNC Symbol;Acc:VGNC:84191]	-	0.606155397	1.10E-10	2.09E-09
ENSMMUG000000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	-	1.160923876	1.91E-08	2.44E-07
ENSMMUG00000021772	nephrocystin 3 [Source:NCBI gene;Acc:717622]	-	1.320789976	8.35E-06	6.19E-05
ENSMMUG00000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	-	0.885841734	2.10E-06	1.76E-05
ENSMMUG00000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]	-	-1.05631594	0.00064275	0.002995442
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	-	1.178958759	5.82E-09	8.16E-08
ENSMMUG00000008916	transferrin [Source:VGNC Symbol;Acc:VGNC:82716]	-	1.101492129	6.25E-09	8.69E-08
ENSMMUG00000008918	SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]	-	1.088934707	1.33E-06	1.16E-05
ENSMMUG00000008919	RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]	-	-0.99894154	7.54E-06	5.66E-05
ENSMMUG00000012605	solute carrier organic anion transporter family member 2A1 [Source:VGNC Symbol;Acc:VGNC:77600]	-	0.486383199	0.000685945	0.003176687
ENSMMUG00000007757	extended synaptotagmin 3 [Source:VGNC Symbol;Acc:VGNC:84182]	-	0.427293418	0.015268296	0.045603263
ENSMMUG00000007760	centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]	-	0.432348241	0.000557837	0.002660733
ENSMMUG00000003051	COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]	-	1.020634044	3.10E-11	6.37E-10
ENSMMUG000000062527		-	1.874555716	6.08E-19	3.41E-17
ENSMMUG00000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-	2.217920552	2.89E-21	2.02E-19
ENSMMUG000000053344	splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]	-	2.764993726	3.03E-09	4.46E-08
ENSMMUG000000057297		-	1.503435765	0.001234081	0.005301935
ENSMMUG000000056024		-	1.03103651	1.02E-08	1.36E-07
ENSMMUG000000063351	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.635095865	0.000695683	0.00321654
ENSMMUG00000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	-	1.313525254	1.52E-08	1.98E-07
ENSMMUG000000052474		-	1.630657541	8.53E-11	1.65E-09
ENSMMUG00000011134	transcription factor Dp-2 [Source:VGNC Symbol;Acc:VGNC:78324]	-	0.50994674	0.001577274	0.006538018
ENSMMUG00000012151	glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]	-	2.063884036	1.76E-05	0.000120287
ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	-	3.875689495	7.00E-25	7.38E-23
ENSMMUG00000002775	U2 snRNP associated SURP domain containing [Source:VGNC Symbol;Acc:VGNC:79889]	-	0.904462154	0.001414615	0.005955314
ENSMMUG00000009694	solute carrier family 9 member A9 [Source:VGNC Symbol;Acc:VGNC:77747]	-	2.071228968	0.000534024	0.00255584
ENSMMUG000000062595		-	0.936576561	0.001944938	0.00786217

ENSMMUG00000049859		-	0.765774391	0.002172595	0.008665046
ENSMMUG00000062175	carboxypeptidase B1 [Source:NCBI gene;Acc:712639]		0.636218838	0.0040248	0.014712117
ENSMMUG00000005519	carboxypeptidase A3 [Source:VGNC Symbol;Acc:VGNC:71456]		0.634721904	0.001929372	0.007808251
ENSMMUG00000005521	glycogenin 1 [Source:VGNC Symbol;Acc:VGNC:73332]		0.847887875	2.83E-07	2.87E-06
ENSMMUG00000005526	helicase like transcription factor [Source:VGNC Symbol;Acc:VGNC:73383]		0.569497017	0.011562037	0.036174576
ENSMMUG00000047621	transmembrane 4 L six family member 18 [Source:VGNC Symbol;Acc:VGNC:82713]		0.544981322	2.24E-05	0.000149717
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]		2.193119955	1.17E-34	3.16E-32
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]		2.79832459	7.15E-14	2.19E-12
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]		1.469427712	2.00E-10	3.62E-09
ENSMMUG00000059788			1.0547322	1.45E-14	4.94E-13
ENSMMUG00000015590	siah E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77215]		2.079008398	1.20E-05	8.56E-05
ENSMMUG00000048232	MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]		0.863906123	0.000114998	0.000648224
ENSMMUG00000038998	purinergic receptor P2Y13 [Source:VGNC Symbol;Acc:VGNC:83950]		0.692527234	0.004357284	0.01578868
ENSMMUG00000057554	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		1.415133924	0.003453267	0.012847119
ENSMMUG00000057501			1.297333777	3.14E-06	2.56E-05
ENSMMUG00000061684			0.875553882	0.014689443	0.044203877
ENSMMUG00000031540	purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]		5.472028101	1.92E-08	2.45E-07
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]		0.922420268	3.55E-23	2.99E-21
ENSMMUG00000056924	G protein-coupled receptor 149 [Source:NCBI gene;Acc:106997054]		1.083214422	0.000161697	0.000882286
ENSMMUG00000060572			0.942065226	4.57E-05	0.00028333
ENSMMUG00000056116			-1.32435648	8.24E-10	1.33E-08
ENSMMUG00000009564	NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]		1.632796279	0.000299436	0.001531921
ENSMMUG00000042979			1.842562188	0.012956348	0.039791254
ENSMMUG00000001302	sucrase-isomaltase [Source:VGNC Symbol;Acc:VGNC:77213]		0.661485379	2.68E-07	2.74E-06
ENSMMUG00000003742	butyrylcholinesterase [Source:VGNC Symbol;Acc:VGNC:70238]		0.720536976	0.000604439	0.002859663
ENSMMUG00000023045	zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]		1.843543989	2.66E-05	0.000174502
ENSMMUG00000047393	protein phosphatase 1 regulatory subunit 7-like [Source:NCBI gene;Acc:699349]		0.680866435	0.005252148	0.018458866
ENSMMUG00000020734	golgi integral membrane protein 4 [Source:VGNC Symbol;Acc:VGNC:72945]		0.337106941	0.00336203	0.012568848
ENSMMUG00000051641			1.259899207	1.33E-07	1.44E-06
ENSMMUG00000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]		2.349910366	6.60E-16	2.67E-14
ENSMMUG00000056664	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]		1.885250188	0.000455377	0.00222113
ENSMMUG00000022880	eukaryotic translation initiation factor 5A2 [Source:VGNC Symbol;Acc:VGNC:72198]		0.668935335	0.003884133	0.014258427
ENSMMUG00000023289	phospholipase D1 [Source:VGNC Symbol;Acc:VGNC:76171]		2.510010528	0.009466257	0.030551253
ENSMMUG00000003594	ubiquitin specific peptidase 13 [Source:VGNC Symbol;Acc:VGNC:78735]		0.706866291	2.64E-05	0.000172944
ENSMMUG00000064088	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]		-0.53187997	0.003850985	0.014151561
ENSMMUG00000010553	methylcrotonoyl-CoA carboxylase 1 [Source:VGNC Symbol;Acc:VGNC:74676]		0.630110551	0.003183248	0.011957858
ENSMMUG00000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]		1.912629825	2.34E-32	5.46E-30
ENSMMUG00000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]		1.001868747	2.12E-09	3.21E-08
ENSMMUG00000006562	eukaryotic translation initiation factor 2B subunit epsilon [Source:VGNC Symbol;Acc:VGNC:72186]		-0.43244098	0.014386244	0.043506733
ENSMMUG00000006553	dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]		0.773308593	0.007652974	0.025533583

ENSMMUG0000006557	adaptor related protein complex 2 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69965]	1.188119098	0.016168364	0.047883625
ENSMMUG0000006558	ATP binding cassette subfamily F member 3 [Source:VGNC Symbol;Acc:VGNC:69583]	0.415852652	0.001168647	0.005051769
ENSMMUG00000018955	EEF1A lysine methyltransferase 4 [Source:NCBI gene;Acc:106996971]	0.429361729	0.000154567	0.000848667
ENSMMUG00000000800	proteasome 26S subunit, non-ATPase 2 [Source:VGNC Symbol;Acc:VGNC:84144]	0.569571531	1.49E-06	1.29E-05
ENSMMUG00000010934	eukaryotic translation initiation factor 4 gamma 1 [Source:VGNC Symbol;Acc:VGNC:72195]	0.571818386	2.95E-06	2.42E-05
ENSMMUG00000007503	family with sequence similarity 131 member A [Source:VGNC Symbol;Acc:VGNC:72385]	0.489421272	0.000556888	0.002657107
ENSMMUG00000007507	chloride voltage-gated channel 2 [Source:VGNC Symbol;Acc:VGNC:71235]	0.608715137	7.73E-07	7.18E-06
ENSMMUG00000007524	RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]	0.989226923	1.76E-07	1.86E-06
ENSMMUG00000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	2.331755771	2.08E-09	3.17E-08
ENSMMUG00000060581		1.905666575	8.09E-07	7.47E-06
ENSMMUG00000002953	MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]	0.997595663	0.000634904	0.002967751
ENSMMUG00000064748	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.514761269	0.000631958	0.002954966
ENSMMUG00000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	1.601861707	2.62E-27	3.56E-25
ENSMMUG00000052418		0.654530168	2.26E-05	0.000150837
ENSMMUG00000018909	fetuin B [Source:VGNC Symbol;Acc:VGNC:72638]	0.583099435	2.58E-05	0.000169374
ENSMMUG00000006816	tetratricopeptide repeat and ankyrin repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:82709]	-0.56044511	0.002225846	0.008842222
ENSMMUG00000022539	LRR binding FLII interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:74449]	0.320500359	0.004210312	0.015315489
ENSMMUG00000049937	Y RNA [Source:RFAM;Acc:RF00019]	0.810552872	0.008600501	0.028251308
ENSMMUG00000054175		1.181847388	6.80E-18	3.39E-16
ENSMMUG00000004847	xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]	0.652100268	2.60E-06	2.15E-05
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	2.07765003	2.08E-15	7.84E-14
ENSMMUG00000015827	sodium voltage-gated channel alpha subunit 10 [Source:VGNC Symbol;Acc:VGNC:76980]	0.340961702	0.001201392	0.005177358
ENSMMUG00000020150	xin actin binding repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:78952]	-0.66256815	6.25E-12	1.45E-10
ENSMMUG00000022963	solute carrier family 25 member 38 [Source:VGNC Symbol;Acc:VGNC:77571]	1.005250826	0.003854109	0.014159332
ENSMMUG00000051711		0.384620245	0.001302108	0.005546616
ENSMMUG00000051408	myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]	1.193260563	1.30E-06	1.14E-05
ENSMMUG00000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	1.486980071	2.13E-11	4.51E-10
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	1.870495374	2.24E-11	4.71E-10
ENSMMUG00000013330	ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]	1.334720055	0.000177766	0.000962474
ENSMMUG00000009437	zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]	1.988704818	0.000227672	0.001205226
ENSMMUG00000001074	unc-51 like kinase 4 [Source:VGNC Symbol;Acc:VGNC:82565]	0.779090856	0.001097289	0.004783117
ENSMMUG00000035160	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	2.10721692	0.012585275	0.038787541
ENSMMUG00000021242	natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]	2.938076918	0.000301263	0.00154014
ENSMMUG00000021243	zinc finger and BTB domain containing 47 [Source:VGNC Symbol;Acc:VGNC:79645]	2.768942232	0.003485305	0.012954259
ENSMMUG00000021244	kelch like family member 40 [Source:VGNC Symbol;Acc:VGNC:74165]	2.958830081	0.000231658	0.001223096
ENSMMUG00000021246	hedgehog acyltransferase like [Source:NCBI gene;Acc:717333]	2.507562351	1.12E-05	8.04E-05
ENSMMUG00000031684	KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]	2.030413599	0.006799015	0.022979655

ENSMMUG0000009745	protein O-linked mannanose N-acetylglucosaminyltransferase 2 (beta 1,4-) [Source:VGNC Symbol;Acc:VGNC:84062]	1.206253839	0.008966891	0.029201745
ENSMMUG00000056798		2.449953233	2.03E-09	3.10E-08
ENSMMUG00000054286		1.47684602	6.26E-06	4.80E-05
ENSMMUG0000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]	0.826487256	4.33E-14	1.38E-12
ENSMMUG00000040696	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.076879432	0.006197737	0.021223656
		-		
ENSMMUG00000051139	C-type lectin domain family 3 member B [Source:NCBI gene;Acc:106996937]	1.120473745	0.007478	0.025003337
		-		
ENSMMUG00000005742	CUB domain containing protein 1 [Source:VGNC Symbol;Acc:VGNC:70849]	1.289396789	0.003699084	0.013672182
		-		
ENSMMUG00000056769	C-C motif chemokine receptor 1 [Source:VGNC Symbol;Acc:VGNC:70737]	0.784135473	0.001701882	0.00699048
ENSMMUG00000004576	C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]	1.343306325	0.00203567	0.008191161
ENSMMUG00000062394	C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]	0.628452976	2.47E-06	2.05E-05
ENSMMUG00000006454	kelch like family member 18 [Source:VGNC Symbol;Acc:VGNC:74154]	-1.04067223	6.49E-06	4.96E-05
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	1.431139384	1.37E-11	2.99E-10
ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	2.434485329	2.37E-29	4.05E-27
ENSMMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]	0.91979497	8.08E-07	7.47E-06
		-		
ENSMMUG00000020954	cell division cycle 25A [Source:VGNC Symbol;Acc:VGNC:70794]	0.734649843	0.004455915	0.016063057
		-		
ENSMMUG00000054936	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.010987817	0.004568595	0.016427027
		-		
ENSMMUG00000064458		1.114169881	6.73E-05	0.00039963
ENSMMUG00000003074	plexin B1 [Source:VGNC Symbol;Acc:VGNC:76187]	1.926263033	0.011459548	0.035918023
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	0.575672611	4.46E-09	6.43E-08
ENSMMUG00000043955	three prime repair exonuclease 1 [Source:VGNC Symbol;Acc:VGNC:82708]	0.754684532	7.59E-06	5.69E-05
ENSMMUG00000010062	shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]	0.559751606	1.69E-05	0.00011637
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]	0.634409156	4.34E-07	4.25E-06
ENSMMUG00000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	2.116321069	1.62E-42	9.09E-40
ENSMMUG00000014699		1.775864615	4.26E-66	1.19E-62
ENSMMUG00000032659	mml-mir-711 [Source:miRBase;Acc:MI0012553]	2.157499094	2.11E-07	2.19E-06
ENSMMUG00000031754	solute carrier family 26 member 6 [Source:VGNC Symbol;Acc:VGNC:77483]	2.274921443	0.011893848	0.037022737
ENSMMUG00000014707	cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]	2.15569733	9.61E-07	8.71E-06
ENSMMUG00000064174		1.755033191	0.000887483	0.00397531
ENSMMUG00000014720	NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]	1.969580018	7.44E-09	1.02E-07
ENSMMUG00000047476	ras homolog family member A [Source:VGNC Symbol;Acc:VGNC:84066]	0.352042529	0.016540455	0.048748801
ENSMMUG00000052238		0.750589529	3.57E-05	0.000227374
ENSMMUG00000014537	bassoon presynaptic cytomatrix protein [Source:VGNC Symbol;Acc:VGNC:70284]	0.392051356	0.012386654	0.038259481
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	-0.80684567	5.26E-12	1.23E-10
ENSMMUG00000031794		1.312752902	0.00099994	0.00441087
ENSMMUG00000020979	inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]	1.076351066	8.24E-05	0.000479492
ENSMMUG00000020980	ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]	1.12286027	0.000129752	0.000724328
ENSMMUG00000016476	TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]	1.014527328	1.37E-05	9.63E-05
ENSMMUG00000016480	CaM kinase like vesicle associated [Source:VGNC Symbol;Acc:VGNC:70663]	0.841875653	0.006325842	0.021614835
		-		
ENSMMUG00000010342	solute carrier family 38 member 3 [Source:VGNC Symbol;Acc:VGNC:77502]	1.224896371	0.007847907	0.026090847
		-		
ENSMMUG00000056280	G protein subunit alpha i2 [Source:NCBI gene;Acc:703780]	0.690658671	3.82E-05	0.000241508
		-		
ENSMMUG00000020117	semaphorin 3B [Source:VGNC Symbol;Acc:VGNC:77160]	0.834060041	0.005576051	0.019393096
ENSMMUG00000010495	MAPK activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74654]	-1.12264881	0.006026887	0.020739886
ENSMMUG00000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	1.220026221	8.97E-13	2.33E-11
ENSMMUG00000004280	DDB1 and CUL4 associated factor 1 [Source:VGNC Symbol;Acc:VGNC:71819]	1.557322456	0.00151522	0.006316269

ENSMMUG00000017351	stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]	-	1.235978243	3.70E-08	4.49E-07
ENSMMUG00000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	-	1.741160313	1.97E-20	1.29E-18
ENSMMUG00000012511	G protein nucleolar 3 [Source:VGNC Symbol;Acc:VGNC:73038]	-	0.310833174	0.004595452	0.016498977
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	-	1.914157192	6.11E-35	1.75E-32
ENSMMUG00000017370	signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]	-	1.837624574	3.37E-10	5.80E-09
ENSMMUG00000019262	calcium voltage-gated channel subunit alpha1 D [Source:VGNC Symbol;Acc:VGNC:70501]	-	1.185734743	0.000869214	0.003904224
ENSMMUG00000019266	choline dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71086]	-	0.810160187	0.000297979	0.001526691
ENSMMUG00000019267	interleukin 17 receptor B [Source:VGNC Symbol;Acc:VGNC:73618]	-	0.594909261	0.009414126	0.030418039
ENSMMUG00000021620	ELKS/RAB6-interacting/CAST family member 2 [Source:VGNC Symbol;Acc:VGNC:72164]	-	0.975103735	6.13E-11	1.20E-09
ENSMMUG00000039085	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1 [Source:NCBI gene;Acc:100425753]	-	-2.31260487	0.000488396	0.002362464
ENSMMUG00000021008	ankyrin repeat and SOCS box containing 14 [Source:VGNC Symbol;Acc:VGNC:84237]	-	1.976459086	0.002811077	0.010802888
ENSMMUG00000054683	dynein axonemal heavy chain 12 [Source:NCBI gene;Acc:703670]	-	1.151339686	3.84E-07	3.83E-06
ENSMMUG00000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.663223216	1.25E-12	3.19E-11
ENSMMUG00000004052	phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]	-	-1.37747481	0.002005622	0.00807953
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	-	2.104107212	9.51E-06	6.94E-05
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]	-	1.558970797	1.19E-21	8.62E-20
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	-	2.177362112	9.31E-33	2.25E-30
ENSMMUG00000057539		-	2.676330451	2.51E-14	8.27E-13
ENSMMUG00000054412		-	0.605471906	0.001815299	0.007397831
ENSMMUG00000054043		-	1.597719573	0.014452715	0.043631953
ENSMMUG00000009425	actin, cytoplasmic 2-like [Source:NCBI gene;Acc:705671]	-	1.025491767	1.01E-08	1.35E-07
ENSMMUG00000056158		-	1.664803814	3.07E-06	2.50E-05
ENSMMUG00000054107		-	0.957077279	9.14E-06	6.71E-05
ENSMMUG00000001849	interleukin 5 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73731]	-	0.789625348	0.000140537	0.000778031
ENSMMUG00000017983	tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]	-	2.204277432	2.02E-06	1.70E-05
ENSMMUG00000060798		-	1.432879613	2.83E-08	3.51E-07
ENSMMUG00000012574	inositol 1,4,5-trisphosphate receptor type 1 [Source:VGNC Symbol;Acc:VGNC:73804]	-	0.825422461	9.24E-06	6.77E-05
ENSMMUG00000043287		-	0.494145834	0.002963322	0.01128283
ENSMMUG00000018281	interleukin 17 receptor E [Source:VGNC Symbol;Acc:VGNC:73623]	-	0.776797079	5.29E-07	5.09E-06
ENSMMUG00000018282	interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]	-	-1.01844276	2.04E-07	2.13E-06
ENSMMUG00000018285	cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]	-	-0.85277896	1.77E-07	1.87E-06
ENSMMUG00000018289	proline rich transmembrane protein 3 [Source:VGNC Symbol;Acc:VGNC:76324]	-	0.864997454	2.47E-09	3.70E-08
ENSMMUG00000019933	TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]	-	0.914457623	0.010017113	0.032019597
ENSMMUG00000021806	vestigial like family member 4 [Source:VGNC Symbol;Acc:VGNC:79755]	-	0.867626818	6.15E-05	0.000370067
ENSMMUG00000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]	-	1.329521192	6.56E-07	6.18E-06

ENSMMUG00000023125	XPC complex subunit, DNA damage recognition and repair factor [Source:VGNC Symbol;Acc:VGNC:78809]	-	0.860009979	0.000780961	0.003568398
ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]	-	0.939524746	2.19E-05	0.000146791
ENSMMUG00000006340	solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]	-	0.883318401	5.45E-10	9.07E-09
ENSMMUG00000044822	coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]	-	0.754393683	8.47E-08	9.61E-07
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]	-	1.466514262	4.36E-21	2.99E-19
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	-	1.693539856	2.33E-22	1.82E-20
ENSMMUG00000032031		-	1.007929903	0.006568936	0.022347452
ENSMMUG00000001949	coiled-coil domain containing 191 [Source:VGNC Symbol;Acc:VGNC:70901]	-	1.278690764	0.002322888	0.009155102
ENSMMUG00000001946	zinc finger DHHC-type palmitoyltransferase 23 [Source:VGNC Symbol;Acc:VGNC:79731]	-	1.082537032	0.003039368	0.011528553
ENSMMUG00000001943	GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]	-	1.218269943	8.35E-07	7.70E-06
ENSMMUG00000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]	-	1.031793969	3.47E-11	7.06E-10
ENSMMUG00000057363		-	1.224430985	0.000569983	0.002713125
ENSMMUG00000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]	-	1.575397007	6.17E-13	1.64E-11
ENSMMUG00000014876	nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]	-	1.695576215	5.18E-14	1.63E-12
ENSMMUG00000003199	CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]	-	1.009573358	0.015643427	0.046604585
ENSMMUG00000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]	-	2.450965794	0.000433668	0.00212634
ENSMMUG00000019977	myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]	-	1.038854074	4.58E-05	0.000283733
ENSMMUG00000019978	HERV-H LTR-associating 2 [Source:VGNC Symbol;Acc:VGNC:73377]	-	1.360066109	0.000832415	0.003765469
ENSMMUG00000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	-	3.480736865	3.74E-60	6.56E-57
ENSMMUG00000058765		-	0.792654526	0.016470657	0.048592541
ENSMMUG00000063790		-	2.090458647	0.003412291	0.012712687
ENSMMUG00000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]	-	1.027317156	7.59E-09	1.04E-07
ENSMMUG00000026103	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	2.830021381	3.15E-06	2.56E-05
ENSMMUG00000060744		-	1.630121943	5.56E-09	7.83E-08
ENSMMUG00000063181		-	0.452480713	0.003761949	0.013867983
ENSMMUG00000059753		-	0.573091351	0.000449707	0.002196184
ENSMMUG00000021567	neurexophilin and PC-esterase domain family member 3 [Source:VGNC Symbol;Acc:VGNC:75476]	-	0.576198968	0.000170474	0.000925853
ENSMMUG00000057768		-	0.666108153	0.00027502	0.001423776
ENSMMUG00000024598	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	3.017412561	0.000612913	0.002890977
ENSMMUG00000038349	crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]	-	0.502158412	0.000372221	0.001846359
ENSMMUG00000049786		-	1.651997362	0.002053762	0.008247395
ENSMMUG00000043727	zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]	-	1.636142474	0.000112589	0.00063509
ENSMMUG00000047994	CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]	-	1.263136766	2.23E-05	0.000149183
ENSMMUG00000033738	RNA, U6atac small nuclear 6, pseudogene [Source:HGNC Symbol;Acc:HGNC:46905]	-	0.565014297	0.002622382	0.010178152

ENSMMUG00000015877	1,4-alpha-glucan branching enzyme 1 [Source:VGNC Symbol;Acc:VGNC:72894]	0.554540658	0.001252604	0.005366718
ENSMMUG00000055096		1.069551397	1.08E-11	2.41E-10
ENSMMUG00000056687		-	-	-
ENSMMUG00000052831		1.537760007	8.61E-08	9.76E-07
		0.93637592	3.89E-08	4.69E-07
ENSMMUG00000032295	zinc finger protein 595 [Source:VGNC Symbol;Acc:VGNC:79655]	-	-	-
		0.734917625	0.001872303	0.007610369
ENSMMUG00000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-	-
		2.058955351	1.44E-08	1.88E-07
ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	-	-	-
		1.695713225	2.49E-11	5.24E-10
ENSMMUG0000003282	phosphodiesterase 6B [Source:VGNC Symbol;Acc:VGNC:75920]	-	-	-
ENSMMUG00000008323	C-terminal binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71539]	1.626996198	7.37E-06	5.54E-05
		-0.39084898	0.000666304	0.00309557
ENSMMUG00000046942	nuclear receptor binding SET domain protein 2 [Source:NCBI gene;Acc:100429321]	-	-	-
		0.563928264	0.001894494	0.007693742
ENSMMUG00000032306	zinc finger FYVE-type containing 28 [Source:NCBI gene;Acc:720600]	-	-	-
ENSMMUG00000007966	TNFAIP3 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:79182]	0.802851936	0.005058367	0.01787638
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	1.76495469	0.002799934	0.010763012
ENSMMUG00000008383	major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]	1.351235226	3.57E-08	4.34E-07
ENSMMUG00000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	1.561104789	2.80E-13	7.79E-12
		1.267014674	1.38E-16	5.99E-15
ENSMMUG00000008392	huntingtin [Source:VGNC Symbol;Acc:VGNC:73468]	-	-	-
		0.756897799	5.80E-07	5.53E-06
ENSMMUG00000008398	Myb/SANT DNA binding domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74869]	-	-	-
ENSMMUG00000006237	carboxypeptidase Z [Source:VGNC Symbol;Acc:VGNC:71478]	0.690314825	0.00192449	0.007795241
ENSMMUG00000006234	acyl-CoA oxidase 3, pristanoyl [Source:VGNC Symbol;Acc:VGNC:69382]	3.705265804	0.012712859	0.039107046
		0.62842753	5.46E-06	4.23E-05
ENSMMUG00000030400	SH3 domain and tetratricopeptide repeats 1 [Source:NCBI gene;Acc:722649]	-	-	-
ENSMMUG00000016999	KIAA0232 [Source:VGNC Symbol;Acc:VGNC:73922]	0.559555449	9.46E-05	0.000542983
		4.593051039	6.23E-06	4.77E-05
ENSMMUG00000053541		-	-	-
		0.866177573	0.004072044	0.014858774
ENSMMUG00000015099	janus kinase and microtubule interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73662]	-	-	-
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	0.660224542	0.00067577	0.003133707
ENSMMUG00000057703		1.412968627	1.73E-30	3.24E-28
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	1.339678706	7.90E-14	2.39E-12
ENSMMUG00000020860	EvC ciliary complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72301]	1.308363522	2.29E-18	1.23E-16
ENSMMUG00000016922	serine/threonine kinase 32B [Source:VGNC Symbol;Acc:VGNC:78114]	0.658388175	1.36E-05	9.57E-05
		0.906102425	0.001053592	0.00461848
ENSMMUG00000060830		-	-	-
		2.845269929	0.004415486	0.015946011
ENSMMUG00000049640		-	-	-
ENSMMUG00000008162	fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]	0.620354273	0.008322991	0.027455494
		1.369125512	1.86E-06	1.57E-05
ENSMMUG00000008164	prominin 1 [Source:VGNC Symbol;Acc:VGNC:76425]	-	-	-
		0.510078566	2.38E-05	0.00015772
ENSMMUG00000023116	LIM domain binding 2 [Source:VGNC Symbol;Acc:VGNC:74246]	-	-	-
		0.907401897	6.49E-07	6.13E-06
ENSMMUG00000018073	ligand dependent nuclear receptor corepressor like [Source:NCBI gene;Acc:715285]	-	-	-
		0.557101005	0.001813871	0.00739416
ENSMMUG00000057338		-	-	-
		1.306380968	7.52E-12	1.72E-10
ENSMMUG00000060440	leucine rich repeat LGI family member 2 [Source:NCBI gene;Acc:693308]	-	-	-
		0.452909535	0.001038447	0.004556363

ENSMMUG00000020349	SEL1L family member 3 [Source:VGNC Symbol;Acc:VGNC:77329]	-	0.326630048	0.012068171	0.037448984
ENSMMUG00000049298	cholecystinin A receptor [Source:NCBI gene;Acc:694742]	-	4.363343975	7.31E-05	0.000430525
ENSMMUG00000057711		-	0.822150305	0.000821509	0.003726958
ENSMMUG00000051768		-	1.198095335	0.001928687	0.007807729
ENSMMUG00000000237	TBC1 domain family member 1 [Source:VGNC Symbol;Acc:VGNC:78103]	-	0.500242599	0.008775116	0.028697167
ENSMMUG00000055079		-	0.484398932	0.003265987	0.012232623
ENSMMUG00000002755	kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]	-	2.979121082	2.50E-05	0.000164907
ENSMMUG00000002756	WD repeat domain 19 [Source:VGNC Symbol;Acc:VGNC:79132]	-	0.490813364	0.000236919	0.001247582
ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]	-	0.991338798	2.64E-06	2.18E-05
ENSMMUG00000062569	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.905359195	0.012038628	0.037367082
ENSMMUG00000036851	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	-	0.651667311	5.56E-05	0.000338263
ENSMMUG00000012036	RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]	-	0.827292108	3.30E-10	5.72E-09
ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]	-	1.119457261	5.91E-09	8.27E-08
ENSMMUG00000055441		-	1.843757245	0.000288799	0.001483997
ENSMMUG00000051296	paired like homeobox 2B [Source:NCBI gene;Acc:701940]	-	1.196142987	0.002586634	0.010064164
ENSMMUG00000017733	ATPase phospholipid transporting 8A1 [Source:VGNC Symbol;Acc:VGNC:70061]	-	0.386393205	0.006433644	0.02192975
ENSMMUG00000018625	NIPA like domain containing 1 [Source:NCBI gene;Acc:704998]	-	1.146159422	4.22E-07	4.14E-06
ENSMMUG00000006703	solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]	-	0.918333625	0.001016534	0.00447562
ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]	-	1.319715333	1.77E-06	1.51E-05
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]	-	0.94358744	7.31E-07	6.82E-06
ENSMMUG00000045266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.564735775	0.000874704	0.003926367
ENSMMUG00000058229	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	2.494382348	0.00113049	0.004903453
ENSMMUG00000008514	lin-54 DREAM MuvB core complex component [Source:VGNC Symbol;Acc:VGNC:74123]	-	1.179506878	0.012943427	0.039760281
ENSMMUG00000015777	heterogeneous nuclear ribonucleoprotein D like [Source:VGNC Symbol;Acc:VGNC:81186]	-	-0.55847203	0.000813303	0.003696903
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	-	1.286789164	9.87E-12	2.22E-10
ENSMMUG00000007366		-	1.391577668	7.88E-14	2.39E-12
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]	-	0.860898059	2.64E-06	2.18E-05
ENSMMUG00000062865		-	0.559090106	0.001604538	0.006635339
ENSMMUG00000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	-	1.938494175	2.44E-13	6.80E-12
ENSMMUG00000019904	cyclin I [Source:VGNC Symbol;Acc:VGNC:70733]	-	-1.53053726	0.004161289	0.015156819
ENSMMUG00000018186	sosondowah ankyrin repeat domain family member B [Source:VGNC Symbol;Acc:VGNC:78033]	-	-0.49805876	4.38E-05	0.000272736
ENSMMUG00000020919	shroom family member 3 [Source:VGNC Symbol;Acc:VGNC:77352]	-	1.178289369	0.001972665	0.007962776
ENSMMUG00000020916	coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]	-	1.051301147	1.01E-13	2.99E-12
ENSMMUG00000020913	scavenger receptor class B member 2 [Source:VGNC Symbol;Acc:VGNC:77026]	-	0.713868016	0.000100839	0.000574896
ENSMMUG00000020910	nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]	-	-0.84271635	0.001027877	0.00451847
ENSMMUG00000017503	SDA1 domain containing 1 [Source:NCBI gene;Acc:700863]	-	2.450259692	1.24E-06	1.10E-05
ENSMMUG00000017501	N-acylethanolamine acid amidase [Source:VGNC Symbol;Acc:VGNC:75068]	-	2.051660589	1.68E-09	2.57E-08
ENSMMUG00000015716	protein phosphatase with EF-hand domain 2 [Source:VGNC Symbol;Acc:VGNC:76233]	-	1.515753045	0.00386823	0.014203766

ENSMMUG00000002153	G3BP stress granule assembly factor 2 [Source:NCBI gene;Acc:701343]	-	3.064708616	0.015023982	0.045004208
ENSMMUG00000003833	Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]	-	1.786266665	3.27E-06	2.66E-05
ENSMMUG00000003827	albumin [Source:VGNC Symbol;Acc:VGNC:69782]	-	0.873371634	0.000135025	0.000749588
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	-	2.598491089	1.32E-39	5.77E-37
ENSMMUG00000006031	casein kappa [Source:VGNC Symbol;Acc:VGNC:71522]	-	1.850072808	0.010004025	0.031992346
ENSMMUG00000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]	-	0.827801375	6.31E-06	4.83E-05
ENSMMUG00000048823		-	1.160316735	8.03E-10	1.30E-08
ENSMMUG00000004849	casein beta [Source:VGNC Symbol;Acc:VGNC:71523]	-	1.034314978	2.62E-08	3.26E-07
ENSMMUG00000047324	casein alpha s1 [Source:HGNC Symbol;Acc:HGNC:2445]	-	2.005630651	0.000513171	0.002467832
ENSMMUG00000009925	centrosomal protein 135 [Source:VGNC Symbol;Acc:VGNC:71128]	-	0.370191182	0.015206033	0.045443776
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	-	1.237018126	2.76E-09	4.09E-08
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]	-	1.852272522	1.83E-07	1.92E-06
ENSMMUG00000010113	steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]	-	1.523964937	4.18E-07	4.11E-06
ENSMMUG00000046843	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.795041561	0.00621705	0.021279398
ENSMMUG00000059659		-	-1.33194235	5.75E-06	4.44E-05
ENSMMUG00000018943	spermatogenesis associated 18 [Source:VGNC Symbol;Acc:VGNC:78013]	-	0.644106736	0.016097659	0.047724624
ENSMMUG00000018939	leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]	-	-0.64389534	0.001249609	0.005360436
ENSMMUG00000008341	Rho GTPase activating protein 24 [Source:VGNC Symbol;Acc:VGNC:69904]	-	-0.9399431	0.005599081	0.019458714
ENSMMUG00000003726	protein tyrosine phosphatase non-receptor type 13 [Source:VGNC Symbol;Acc:VGNC:76599]	-	0.630764893	0.004897976	0.017423154
ENSMMUG00000014076	AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]	-	1.071776731	0.007261961	0.024409032
ENSMMUG00000051677		-	1.093271109	4.12E-15	1.50E-13
ENSMMUG00000014080	kelch like family member 8 [Source:VGNC Symbol;Acc:VGNC:74076]	-	0.839732383	0.003958153	0.014499786
ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]	-	1.254474547	8.90E-14	2.68E-12
ENSMMUG00000019041	hydroxysteroid 17-beta dehydrogenase 11 [Source:VGNC Symbol;Acc:VGNC:73431]	-	1.090118986	7.22E-05	0.000426687
ENSMMUG00000008795	polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]	-	1.253596111	1.03E-09	1.63E-08
ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]	-	1.325367304	6.23E-17	2.83E-15
ENSMMUG00000028039	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.834290264	0.009583716	0.03085226
ENSMMUG00000010314	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:VGNC Symbol;Acc:VGNC:73238]	-	0.802930523	0.0080132	0.026558521
ENSMMUG00000010316	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]	-	2.236623943	5.22E-08	6.12E-07
ENSMMUG00000010318	phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]	-	2.600961999	3.34E-12	8.02E-11
ENSMMUG00000058698		-	1.879874648	5.62E-05	0.000341428
ENSMMUG00000010138	HECT and RLD domain containing E3 ubiquitin protein ligase 3 [Source:VGNC Symbol;Acc:VGNC:73365]	-	0.380618983	0.002897206	0.011082247
ENSMMUG00000058544	nucleosome assembly protein 1 like 5 [Source:NCBI gene;Acc:703223]	-	0.65869106	1.46E-06	1.27E-05
ENSMMUG00000010141	family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]	-	0.602423415	1.54E-06	1.34E-05
ENSMMUG00000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]	-	1.746407507	1.15E-18	6.36E-17
ENSMMUG00000049396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.315079851	0.002630259	0.010200255
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]	-	1.910881321	2.57E-15	9.57E-14

ENSMMUG00000022246	PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]	0.918039634	5.52E-05	0.00033654
ENSMMUG00000060760		1.450845419	1.89E-08	2.43E-07
ENSMMUG00000006309	unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]	-1.99610831	0.000972037	0.004297251
ENSMMUG00000011702	tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]	1.116487085	4.94E-05	0.000303631
ENSMMUG00000063972		0.789184049	0.000998071	0.00440401
ENSMMUG00000040764	alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]	0.933559498	0.000110009	0.00062229
ENSMMUG00000018738	alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]	0.997255619	5.18E-08	6.09E-07
ENSMMUG00000061366		0.771988096	1.19E-07	1.31E-06
ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]	3.312930333	9.39E-22	6.93E-20
ENSMMUG00000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.788935479	2.00E-23	1.75E-21
ENSMMUG00000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	3.676192902	1.07E-21	7.80E-20
ENSMMUG00000003739	mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]	1.454243808	2.29E-05	0.000152795
ENSMMUG00000011206	solute carrier family 9 member B1 [Source:NCBI gene;Acc:710949]	0.419657747	0.016184918	0.047922529
ENSMMUG00000019083	solute carrier family 9 member B2 [Source:VGNC Symbol;Acc:VGNC:77773]	0.577263645	0.001264263	0.00541006
ENSMMUG00000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	1.228029753	5.61E-26	6.85E-24
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	1.206481689	1.63E-24	1.62E-22
ENSMMUG00000010941	Rho guanine nucleotide exchange factor 38 [Source:VGNC Symbol;Acc:VGNC:82087]	0.460080344	0.000636399	0.00297375
ENSMMUG00000009066	60S ribosomal protein L26 [Source:NCBI gene;Acc:696134]	1.896408483	0.009596028	0.0308595
ENSMMUG00000060432		-0.99137438	0.014289988	0.043252428
ENSMMUG00000052609	ribosomal protein L34 [Source:NCBI gene;Acc:696636]	2.075175983	2.20E-08	2.78E-07
ENSMMUG00000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	1.629309351	7.03E-08	8.09E-07
ENSMMUG00000055759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.551380341	3.50E-06	2.83E-05
ENSMMUG00000017703	collagen type XXV alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81374]	2.815829354	5.11E-07	4.92E-06
ENSMMUG00000010043	epidermal growth factor [Source:VGNC Symbol;Acc:VGNC:72171]	0.647811464	0.014380091	0.043506368
ENSMMUG00000062794		2.480275169	8.93E-14	2.68E-12
ENSMMUG00000008633	ankyrin 2 [Source:NCBI gene;Acc:702180]	0.835932852	7.50E-05	0.000440758
ENSMMUG00000001752	transmembrane protein 155 [Source:NCBI gene;Acc:707055]	1.96881723	0.005503552	0.019198852
ENSMMUG00000009816	exosome component 9 [Source:VGNC Symbol;Acc:VGNC:72477]	2.027878491	8.43E-06	6.25E-05
ENSMMUG00000061098		1.836225931	3.14E-28	4.74E-26
ENSMMUG00000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	1.402887512	6.71E-19	3.75E-17
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	1.176210989	6.36E-17	2.88E-15
ENSMMUG00000011810	FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]	1.298222595	0.000746014	0.0034221
ENSMMUG00000051329		1.57137543	2.22E-05	0.000148427
ENSMMUG00000056698		1.587960391	0.005551548	0.019331849
ENSMMUG00000015244	uncoupling protein 1 [Source:VGNC Symbol;Acc:VGNC:78708]	2.304210977	0.002377157	0.009347974
ENSMMUG00000010444	ring finger protein 150 [Source:VGNC Symbol;Acc:VGNC:76805]	2.792936	0.010209326	0.032537587
ENSMMUG00000060157	zinc finger protein 330 [Source:NCBI gene;Acc:699364]	0.71465411	5.46E-05	0.00033288
ENSMMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]	0.820424156	2.19E-05	0.00014684
ENSMMUG00000055522		0.778869383	0.006387064	0.021797469

ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]	2.192104679	1.93E-15	7.28E-14
ENSMMUG00000014173		-1.12513381	0.001051057	0.004608811
ENSMMUG00000007968	hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]	0.938781934	1.11E-05	7.95E-05
ENSMMUG00000005380	zinc finger protein 827 [Source:NCBI gene;Acc:706018]	1.803538101	1.92E-12	4.75E-11
ENSMMUG00000014955	nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]	1.025702875	0.002959957	0.011273361
ENSMMUG00000002211	doublecortin like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71670]	1.110809626	2.73E-06	2.25E-05
ENSMMUG000000059101		1.654760072	2.06E-05	0.000139254
ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]	0.982157138	7.87E-08	8.99E-07
ENSMMUG00000039869		0.770648737	1.15E-06	1.02E-05
ENSMMUG00000009001	transmembrane 131 like [Source:VGNC Symbol;Acc:VGNC:79781]	0.910333135	0.004959227	0.017601429
ENSMMUG00000057643		0.464757687	0.00495786	0.017601029
ENSMMUG00000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	0.785932065	5.44E-09	7.69E-08
ENSMMUG00000064074		0.782876938	4.28E-06	3.40E-05
ENSMMUG00000021147	RNA binding motif protein 46 [Source:VGNC Symbol;Acc:VGNC:76555]	0.588248969	0.000723312	0.003324485
ENSMMUG00000005447	guanylate cyclase 1 soluble subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73328]	0.525696362	0.006137605	0.021064032
ENSMMUG00000057700	acid sensing ion channel subunit family member 5 [Source:NCBI gene;Acc:699617]	0.576619724	3.94E-05	0.000248591
ENSMMUG00000022018	tryptophan 2,3-dioxygenase [Source:VGNC Symbol;Acc:VGNC:78298]	-0.53069103	0.001469162	0.006151705
ENSMMUG00000064707		1.629419804	1.48E-08	1.93E-07
ENSMMUG00000053790		2.964170234	4.13E-42	2.14E-39
ENSMMUG00000010581	Rap guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:76493]	1.504918044	0.009602335	0.030862606
ENSMMUG00000015799	tolloid like 1 [Source:VGNC Symbol;Acc:VGNC:78369]	0.776194929	0.010401804	0.033045877
ENSMMUG00000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	4.50933754	6.16E-32	1.39E-29
ENSMMUG00000001879	annexin A10 [Source:VGNC Symbol;Acc:VGNC:69945]	0.63624317	8.20E-05	0.00047831
ENSMMUG00000001880	DExD/H-box helicase 60 [Source:VGNC Symbol;Acc:VGNC:71711]	0.45612019	0.001426452	0.005999741
ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]	1.612687674	3.87E-10	6.62E-09
ENSMMUG00000016767	polypeptide N-acetylgalactosaminyltransferase like 6 [Source:VGNC Symbol;Acc:VGNC:72813]	1.142273099	0.000342312	0.001720515
ENSMMUG00000013730	WD repeat domain 17 [Source:NCBI gene;Acc:700546]	0.307416036	0.009228786	0.029915687
ENSMMUG00000064304		0.391162115	0.007240746	0.024349395
ENSMMUG00000058974		1.176834953	0.000910902	0.004062844
ENSMMUG00000049670		3.708488341	0.003865836	0.014198696
ENSMMUG00000034845	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	2.352198207	0.014214696	0.043061716
ENSMMUG00000011633	kallikrein B1 [Source:VGNC Symbol;Acc:VGNC:74195]	2.43703542	5.15E-06	4.00E-05
ENSMMUG00000011634	coagulation factor XI [Source:VGNC Symbol;Acc:VGNC:72460]	2.247450463	0.000657036	0.003055032
ENSMMUG00000018051	FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]	0.678384693	1.01E-07	1.13E-06
ENSMMUG00000058448		0.577116122	0.003544388	0.013152409
ENSMMUG00000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	2.112439075	1.11E-12	2.84E-11
ENSMMUG00000054799		1.446199596	0.007625611	0.025460464

ENSMMUG00000064721		-	2.332412703	0.000962987	0.00426531
ENSMMUG00000052287		-	2.120518987	0.000138999	0.000770126
ENSMMUG00000044628		-	-1.89055488	0.000299388	0.001531921
ENSMMUG00000015797	disco interacting protein 2 homolog A [Source:VGNC Symbol;Acc:VGNC:71641]		0.679376623	2.94E-05	0.000190711
ENSMMUG00000052777			1.57192545	0.001277137	0.005456822
ENSMMUG00000004472	collagen type XVIII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81291]		1.765341184	0.006494194	0.022114638
ENSMMUG00000010695	adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]		1.419231962	1.16E-05	8.32E-05
ENSMMUG00000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]		0.979887192	2.70E-05	0.000176368
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]		1.901950427	1.42E-24	1.44E-22
ENSMMUG00000049755	leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]		2.502629739	2.99E-06	2.44E-05
ENSMMUG00000004175	transient receptor potential cation channel subfamily M member 2 [Source:VGNC Symbol;Acc:VGNC:78655]		0.80088537	0.011766225	0.036682476
ENSMMUG00000004173	phosphofructokinase, liver type [Source:VGNC Symbol;Acc:VGNC:81737]		0.546247466	0.005567036	0.019371351
ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]		2.239440301	1.81E-14	6.06E-13
ENSMMUG00000010647	inducible T cell costimulator ligand [Source:NCBI gene;Acc:722191]		1.267040072	0.000736291	0.003379709
ENSMMUG00000005272	glutamine amidotransferase like class 1 domain containing 3A [Source:NCBI gene;Acc:713055]		0.355563598	0.009256598	0.029985047
ENSMMUG00000012304	ribosomal RNA processing 1 [Source:VGNC Symbol;Acc:VGNC:77050]		0.603164256	0.004405987	0.015919907
ENSMMUG00000062457	pyridoxal kinase [Source:NCBI gene;Acc:713564]		0.694995872	0.002151388	0.008592898
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]		0.897772198	1.74E-09	2.66E-08
ENSMMUG00000009288	PBX/knotted 1 homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76150]		-0.86711136	0.000935737	0.00415511
ENSMMUG00000062729	WD repeat domain 4 [Source:NCBI gene;Acc:714230]		0.340216128	0.016979191	0.049884599
ENSMMUG00000018081	ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]		-0.6164594	0.005895142	0.020326425
ENSMMUG00000018079	transmembrane serine protease 3 [Source:VGNC Symbol;Acc:VGNC:78576]		0.712711785	0.001615898	0.00667641
ENSMMUG00000018058	ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]		1.080854676	0.000311127	0.001583065
ENSMMUG00000018057	uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]		1.117753383	7.94E-06	5.93E-05
ENSMMUG00000018053	zinc finger and BTB domain containing 21 [Source:VGNC Symbol;Acc:VGNC:78892]		0.565303771	0.000100532	0.000573773
ENSMMUG00000018043	receptor interacting serine/threonine kinase 4 [Source:VGNC Symbol;Acc:VGNC:76882]		2.865778886	0.016554315	0.048758908
ENSMMUG00000015329	MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]		1.616470354	3.76E-05	0.000238283
ENSMMUG00000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]		2.374155435	3.27E-14	1.06E-12
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]		1.930784458	2.82E-12	6.86E-11
ENSMMUG00000008498	proteasome assembly chaperone 1 [Source:VGNC Symbol;Acc:VGNC:76347]		0.383477233	0.013950626	0.042374755
ENSMMUG00000010296	ETS transcription factor ERG [Source:VGNC Symbol;Acc:VGNC:72427]		2.948953512	0.005320572	0.018657258
ENSMMUG00000056593			2.78174763	0.000304634	0.001554881
ENSMMUG00000017505	tetratricopeptide repeat domain 3 [Source:VGNC Symbol;Acc:VGNC:81785]		0.526013569	4.16E-06	3.31E-05
ENSMMUG00000062048			0.707726367	1.61E-07	1.72E-06
ENSMMUG00000015566	holocarboxylase synthetase [Source:VGNC Symbol;Acc:VGNC:73477]		0.528548021	0.004506818	0.016229869
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]		0.642565641	1.83E-11	3.91E-10
ENSMMUG00000054417			-1.46798637	8.26E-09	1.11E-07

ENSMMUG0000007626	intersectin 1 [Source:VGNC Symbol;Acc:VGNC:73806]	-	1.061376622	4.07E-05	0.00025562
ENSMMUG0000005511	SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]	-	1.436419561	4.20E-07	4.13E-06
ENSMMUG00000022702	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase [Source:VGNC Symbol;Acc:VGNC:72882]	-	0.839131171	0.005668341	0.019658895
ENSMMUG0000005509	transmembrane protein 50B [Source:NCBI gene;Acc:699352]	-	0.431970451	0.000151162	0.000831928
ENSMMUG0000005508	interferon gamma receptor 2 [Source:VGNC Symbol;Acc:VGNC:73569]	-	0.336029079	0.002557197	0.009963762
ENSMMUG0000003961	interferon alpha and beta receptor subunit 1 [Source:VGNC Symbol;Acc:VGNC:73566]	-	0.614380719	0.001755288	0.00717312
ENSMMUG0000003956	interferon alpha and beta receptor subunit 2 [Source:VGNC Symbol;Acc:VGNC:81330]	-	0.441256806	0.007360317	0.024680468
ENSMMUG00000065005	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.974188237	0.00122433	0.005263266
ENSMMUG00000052780		-	0.91400556	1.90E-07	1.99E-06
ENSMMUG00000027541	Small nucleolar RNA SNORA70 [Source:RFAM;Acc:RF00156]	-	3.060626222	0.000263078	0.001371941
ENSMMUG0000004624	synaptojanin 1 [Source:VGNC Symbol;Acc:VGNC:78071]	-	-0.69233611	3.06E-05	0.000198259
ENSMMUG00000010304	cilia and flagella associated protein 298 [Source:NCBI gene;Acc:700721]	-	0.752660907	1.45E-07	1.56E-06
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	-	1.259611216	1.95E-18	1.06E-16
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	-	1.705062839	7.22E-05	0.000426687
ENSMMUG00000056363		-	1.903925906	1.77E-05	0.000120951
ENSMMUG00000011095	BTB domain and CNC homolog 1 [Source:VGNC Symbol;Acc:VGNC:70217]	-	1.539977394	0.011937717	0.037126325
ENSMMUG00000033200	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	-	2.435571022	0.012039112	0.037367082
ENSMMUG00000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	-	1.621708883	4.41E-24	4.17E-22
ENSMMUG00000064638	Y RNA [Source:RFAM;Acc:RF00019]	-	2.470708566	0.004555881	0.016385514
ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	-	1.161545234	6.01E-09	8.39E-08
ENSMMUG00000018743	ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]	-	3.237660051	0.000352714	0.001760809
ENSMMUG00000060576		-	1.29606748	4.96E-07	4.79E-06
ENSMMUG00000057702		-	1.208602813	9.47E-07	8.60E-06
ENSMMUG00000060168		-	1.119267921	1.78E-05	0.000121921
ENSMMUG00000052328	FAM20C golgi associated secretory pathway kinase [Source:NCBI gene;Acc:695088]	-	-2.07221767	2.47E-06	2.05E-05
ENSMMUG00000018261	dynein axonemal assembly factor 5 [Source:VGNC Symbol;Acc:VGNC:71907]	-	0.706583746	0.000611716	0.002886304
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	-	3.344052302	2.92E-09	4.31E-08
ENSMMUG00000007206	chromosome 3 C7orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70609]	-	2.174763782	0.000449793	0.002196184
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]	-	1.132100639	1.03E-10	1.96E-09
ENSMMUG00000055562	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.455777999	0.009990846	0.031957489
ENSMMUG00000022624	putative speedy protein E16 [Source:NCBI gene;Acc:718058]	-	1.330446331	9.51E-09	1.28E-07
ENSMMUG00000015546	chromosome 3 C7orf26 homolog [Source:VGNC Symbol;Acc:VGNC:70604]	-	0.731539943	0.009550066	0.030765122
ENSMMUG00000021839	Grid2 interacting protein [Source:VGNC Symbol;Acc:VGNC:73191]	-	0.853315787	3.95E-05	0.000248847
ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	-	1.247536142	6.69E-16	2.69E-14
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	-	1.544203099	3.46E-14	1.12E-12
ENSMMUG00000030422	radial spoke head 10 homolog B [Source:NCBI gene;Acc:100424218]	-	0.744750596	5.56E-07	5.33E-06
ENSMMUG00000007970	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]	-	1.305790309	1.16E-07	1.28E-06
ENSMMUG00000015477	lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]	-	0.854948938	1.48E-07	1.58E-06
ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	-	1.073459667	1.16E-25	1.34E-23
ENSMMUG00000013276	BAR/IMD domain containing adaptor protein 2 like 1 [Source:VGNC Symbol;Acc:VGNC:70109]	-	0.587784806	0.005764251	0.01994377

ENSMMUG00000023318	transformation/transcription domain associated protein [Source:VGNC Symbol;Acc:VGNC:78657]	0.391225145	0.000502211	0.002421767
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]	3.03922841	7.45E-12	1.71E-10
ENSMMUG00000055483	transmembrane protein 225B [Source:NCBI gene;Acc:718838]	2.296411849	0.002231183	0.008855895
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]	1.744818351	7.31E-09	1.00E-07
ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]	0.967655846	4.27E-07	4.19E-06
		-		
ENSMMUG00000022490	cytochrome P450, family 3, subfamily A, polypeptide 43 [Source:NCBI gene;Acc:709770]	0.687744837	1.33E-07	1.44E-06
		-		
ENSMMUG00000022502	tripartite motif containing 4 [Source:VGNC Symbol;Acc:VGNC:79021]	0.697405045	0.003458391	0.01286052
ENSMMUG00000022504	alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]	0.578695846	0.000727804	0.003344033
ENSMMUG00000013447	adaptor related protein complex 4 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69974]	1.017781924	0.000796458	0.003635655
ENSMMUG00000013450	TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]	2.395956154	1.65E-10	3.03E-09
		-		
ENSMMUG00000046663	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.037766093	3.72E-06	2.99E-05
ENSMMUG00000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]	-1.13136939	3.56E-15	1.31E-13
ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]	-1.21745993	8.29E-21	5.56E-19
		-		
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]	1.107328075	3.34E-15	1.23E-13
		-		
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]	1.132373263	7.28E-19	4.05E-17
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]	2.156630219	6.71E-11	1.31E-09
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]	2.212937813	3.87E-13	1.06E-11
		-		
ENSMMUG00000004080	G protein subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:81318]	1.983472351	0.0024664	0.009659545
		-		
ENSMMUG00000004082	GRB10 interacting GYF protein 1 [Source:VGNC Symbol;Acc:VGNC:73158]	0.982655211	0.00874842	0.028643262
ENSMMUG00000022840	zonadhesin [Source:VGNC Symbol;Acc:VGNC:81797]	-0.66515603	0.00214169	0.008561267
ENSMMUG00000052734		2.182586035	0.011689925	0.036494251
ENSMMUG00000060459		0.527687921	6.27E-05	0.000376653
ENSMMUG00000010329	SH2B adaptor protein 2 [Source:VGNC Symbol;Acc:VGNC:77257]	3.62859814	0.009818195	0.03145546
		-		
ENSMMUG00000063570	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.154478916	0.001517994	0.006325952
		-		
ENSMMUG00000011367	BUD23 rRNA methyltransferase and ribosome maturation factor [Source:VGNC Symbol;Acc:VGNC:70325]	3.321507898	0.000997403	0.004402451
ENSMMUG00000056841		1.305007327	0.001219346	0.005246668
ENSMMUG00000050132		1.28080661	1.99E-08	2.54E-07
ENSMMUG00000056980		1.831600367	0.002790301	0.010728927
		-		
ENSMMUG00000001225	calneuron 1 [Source:VGNC Symbol;Acc:VGNC:82078]	1.390969346	0.000170154	0.000924472
ENSMMUG00000061002		-0.78536878	0.005713684	0.019798121
		-		
ENSMMUG00000021235	vitamin K epoxide reductase complex subunit 1 like 1 [Source:VGNC Symbol;Acc:VGNC:79322]	1.026868897	0.004516183	0.016259419
		-		
ENSMMUG00000049696		0.286157385	0.003938427	0.014442616
		-		
ENSMMUG00000051107		1.251386666	0.002953339	0.011257046
ENSMMUG00000060184	SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]	3.98994446	8.98E-07	8.19E-06
ENSMMUG00000056368		0.368431946	0.001340801	0.005682095
ENSMMUG00000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	1.069663968	3.67E-25	3.99E-23
		-		
ENSMMUG00000049620		0.834260881	0.014171615	0.042968335
		-		
ENSMMUG00000044759		1.086355331	2.75E-10	4.86E-09

ENSMMUG00000043922	spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]	0.786574097	6.23E-11	1.22E-09
ENSMMUG00000019393	tensin 3 [Source:VGNC Symbol;Acc:VGNC:79324]	3.308229035	0.000231402	0.001222205
ENSMMUG00000050300		1.405204263	0.000166529	0.000906961
ENSMMUG00000000962	H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]	0.704059471	0.002515853	0.00981904
ENSMMUG00000064180		0.553030333	0.01663505	0.048945301
ENSMMUG00000057027		0.73057842	0.016933951	0.049782975
ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]	1.422312175	0.005212537	0.018338036
ENSMMUG00000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]	1.466056067	0.002122888	0.008500643
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	1.484207007	2.47E-14	8.18E-13
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	1.637173193	4.90E-14	1.56E-12
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	1.533442178	6.42E-21	4.37E-19
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.586345646	6.73E-15	2.39E-13
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	1.606612567	2.84E-10	4.98E-09
ENSMMUG00000019023	cytochrome c oxidase assembly factor 1 homolog [Source:VGNC Symbol;Acc:VGNC:81290]	0.778828479	0.000279744	0.00144488
ENSMMUG00000017382	biliverdin reductase A [Source:VGNC Symbol;Acc:VGNC:70256]	0.699936055	2.07E-09	3.16E-08
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	0.811931327	3.99E-12	9.44E-11
ENSMMUG00000019015	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73217]	0.702822718	5.84E-09	8.18E-08
ENSMMUG00000057956		0.543353796	0.004955087	0.017600099
ENSMMUG00000024428	Y RNA [Source:RFAM;Acc:RF00019]	1.778894752	0.001673712	0.006890917
ENSMMUG00000053696	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.542391563	0.000964112	0.004268067
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	1.66995427	7.07E-08	8.12E-07
ENSMMUG00000022451	proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]	1.201248899	0.004987852	0.017671714
ENSMMUG00000052530		1.98082166	0.000302188	0.001544307
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]	0.815439045	8.69E-05	0.000502762
ENSMMUG00000006980	septin 7 [Source:VGNC Symbol;Acc:VGNC:81759]	2.226165635	0.001031159	0.004530059
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	2.252843067	4.54E-26	5.64E-24
ENSMMUG00000058423		2.936621968	7.54E-17	3.38E-15
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]	1.361039092	1.86E-08	2.39E-07
ENSMMUG00000050858	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.891159943	0.004044881	0.014778888
ENSMMUG00000022484	ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]	3.022520453	1.71E-05	0.000117396
ENSMMUG00000055809		3.063479228	3.23E-12	7.76E-11
ENSMMUG00000062454		1.930102653	1.07E-28	1.68E-26
ENSMMUG00000039009		1.866734931	1.25E-13	3.66E-12
ENSMMUG00000032973	mml-mir-550 [Source:miRBase;Acc:MI0007826]	1.501371146	3.50E-07	3.51E-06
ENSMMUG00000020184	carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]	1.547998458	7.81E-06	5.84E-05
ENSMMUG00000039317	cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]	2.613427517	3.60E-07	3.60E-06
ENSMMUG00000052176		3.485591893	0.008305292	0.027403556
ENSMMUG00000065311	translocase of outer mitochondrial membrane 7 [Source:NCBI gene;Acc:705701]	1.956460059	0.004773793	0.017046829
ENSMMUG00000042472	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.778646199	0.000917273	0.004079583
ENSMMUG00000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	2.602410361	6.15E-18	3.09E-16

ENSMMUG00000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	-	2.724232113	1.80E-22	1.42E-20
ENSMMUG000000052574		-	1.242479027	4.93E-13	1.34E-11
ENSMMUG00000012203	aryl hydrocarbon receptor [Source:NCBI gene;Acc:714254]	-	1.224399093	3.72E-07	3.71E-06
ENSMMUG00000020418	diacylglycerol kinase beta [Source:VGNC Symbol;Acc:VGNC:71782]	-	0.771929673	0.013771885	0.041928602
ENSMMUG00000008632	myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]	-	1.109727665	0.00587847	0.020288896
ENSMMUG00000012694	thrombospondin type 1 domain containing 7A [Source:VGNC Symbol;Acc:VGNC:79347]	-	1.129431413	0.013173003	0.040341782
ENSMMUG000000041616	G protein subunit gamma 11 [Source:VGNC Symbol;Acc:VGNC:81319]	-	2.852528284	0.015188239	0.045402829
ENSMMUG000000045513		-	1.815757197	2.77E-06	2.27E-05
ENSMMUG00000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	-	1.389336082	3.08E-19	1.77E-17
ENSMMUG00000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	-	1.175129145	2.46E-12	6.02E-11
ENSMMUG00000022696	sorcin [Source:VGNC Symbol;Acc:VGNC:81763]	-	0.38771509	0.000900819	0.004026835
ENSMMUG00000006766	RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]	-	0.968907752	0.000229412	0.001213063
ENSMMUG00000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	-	0.860372152	7.85E-07	7.28E-06
ENSMMUG00000000480	KIAA1324 like [Source:VGNC Symbol;Acc:VGNC:73882]	-	2.55794187	0.002612877	0.010152501
ENSMMUG00000022513	glutamate metabotropic receptor 3 [Source:VGNC Symbol;Acc:VGNC:73287]	-	1.22357661	2.09E-05	0.000140918
ENSMMUG00000001979	semaphorin 3E [Source:VGNC Symbol;Acc:VGNC:77163]	-	1.631892824	0.010416484	0.033077527
ENSMMUG00000018652	hepatocyte growth factor [Source:VGNC Symbol;Acc:VGNC:73373]	-	0.505036685	0.000631269	0.002954283
ENSMMUG000000053516		-	1.26514001	8.21E-05	0.00047831
ENSMMUG000000064838	G protein subunit alpha transducin 3 [Source:NCBI gene;Acc:708828]	-	0.635540085	0.002203764	0.008769405
ENSMMUG00000001801	membrane associated guanylate kinase, WW and PDZ domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74312]	-	0.558685449	0.000769156	0.003517896
ENSMMUG000000049939		-	0.940498023	1.15E-09	1.81E-08
ENSMMUG00000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]	-	-1.14320623	1.53E-10	2.84E-09
ENSMMUG00000012427	F-box and leucine rich repeat protein 13 [Source:VGNC Symbol;Acc:VGNC:81312]	-	0.606728841	5.47E-05	0.000333299
ENSMMUG00000022727	lysine methyltransferase 2E [Source:VGNC Symbol;Acc:VGNC:74073]	-	2.854253663	0.000514816	0.002473196
ENSMMUG00000022732	SRSF protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:81764]	-	0.862457366	8.94E-07	8.17E-06
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	-	1.443664033	2.15E-15	8.10E-14
ENSMMUG00000019593	synaptophysin like 1 [Source:VGNC Symbol;Acc:VGNC:78073]	-	2.807032589	0.007132428	0.024025473
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	-	1.924928982	4.62E-20	2.80E-18
ENSMMUG00000011385	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma [Source:VGNC Symbol;Acc:VGNC:75998]	-	0.683183412	1.50E-05	0.000104437
ENSMMUG000000062092		-	3.735264965	2.68E-05	0.000175694
ENSMMUG000000058817		-	3.441632935	2.50E-30	4.56E-28
ENSMMUG00000002894	dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]	-	0.937195401	6.71E-05	0.000399043
ENSMMUG00000011269	CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]	-	1.133565611	1.02E-09	1.62E-08
ENSMMUG00000023310	tetraspanin 12 [Source:VGNC Symbol;Acc:VGNC:79328]	-	2.705594299	0.010503347	0.033323174
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]	-	1.450453274	2.35E-05	0.000156256
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]	-	1.119010082	2.62E-07	2.68E-06
ENSMMUG00000015432	staphylococcal nuclease and tudor domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77798]	-	0.667188641	0.000624794	0.002931241

ENSMMUG0000007250	RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]	-	0.795829816	0.00028751	0.001478999
ENSMMUG00000037473	proline rich transmembrane protein 4 [Source:VGNC Symbol;Acc:VGNC:81746]	-	0.539680388	0.002200496	0.008758887
ENSMMUG00000018478	interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]	-	1.599867716	1.56E-10	2.88E-09
ENSMMUG00000012110	smoothened, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	-	1.168267001	4.33E-08	5.16E-07
ENSMMUG00000017542	ubiquitin conjugating enzyme E2 H [Source:VGNC Symbol;Acc:VGNC:78696]	-	0.650146203	0.000214362	0.001139502
ENSMMUG00000010060	serine rich single-pass membrane protein 1 [Source:VGNC Symbol;Acc:VGNC:78014]	-	1.663203579	1.55E-05	0.000107553
ENSMMUG00000009495	carboxypeptidase A1 [Source:VGNC Symbol;Acc:VGNC:71455]	-	0.960800072	0.001488332	0.006217121
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	-	3.82961002	3.46E-38	1.28E-35
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	-	3.999281949	5.49E-52	6.41E-49
ENSMMUG00000000917	aldo-keto reductase family 1 member B [Source:NCBI gene;Acc:705957]	-	2.064187027	3.26E-06	2.65E-05
ENSMMUG00000037485		-	3.106135686	0.001000801	0.004411861
ENSMMUG00000054821		-	2.811169052	0.000637417	0.002975871
ENSMMUG00000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	-	1.162284681	8.29E-18	4.09E-16
ENSMMUG00000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.232682376	8.82E-11	1.69E-09
ENSMMUG00000062419		-	1.5645648	0.013684046	0.041706451
ENSMMUG00000016384	nucleoporin 205 [Source:VGNC Symbol;Acc:VGNC:75432]	-	0.734329505	0.001069157	0.00468086
ENSMMUG00000064014		-	3.020745903	0.001747696	0.007145174
ENSMMUG00000002995	tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]	-	0.903181066	1.34E-06	1.17E-05
ENSMMUG00000006547	ATPase H+ transporting V0 subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]	-	2.963007578	0.000152015	0.000835961
ENSMMUG00000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	-	2.944429302	1.67E-05	0.000114793
ENSMMUG00000006550	zinc finger CCCH-type containing, antiviral 1 [Source:VGNC Symbol;Acc:VGNC:79408]	-	0.35836322	0.002324384	0.009156018
ENSMMUG00000002481	homeodomain interacting protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:73391]	-	0.687172779	0.009513937	0.030676924
ENSMMUG00000004222	thromboxane A synthase 1 [Source:VGNC Symbol;Acc:VGNC:78278]	-	0.760535281	8.89E-07	8.12E-06
ENSMMUG00000052228	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.571210639	6.08E-06	4.68E-05
ENSMMUG00000004224	poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]	-	0.754963357	4.23E-06	3.37E-05
ENSMMUG00000056175		-	0.781769332	1.26E-06	1.12E-05
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	-	0.748846409	3.78E-08	4.58E-07
ENSMMUG00000010420	makorin ring finger protein 1 [Source:VGNC Symbol;Acc:VGNC:81476]	-	0.642440601	0.00498481	0.017669867
ENSMMUG00000042299	DENN domain containing 2A [Source:VGNC Symbol;Acc:VGNC:81302]	-	2.655369201	0.001534147	0.006376212
ENSMMUG00000015282	aarF domain containing kinase 2 [Source:VGNC Symbol;Acc:VGNC:69473]	-	0.524770673	0.00034966	0.001747365
ENSMMUG00000042793	B-Raf proto-oncogene, serine/threonine kinase [Source:NCBI gene;Acc:693554]	-	0.694198494	0.002149047	0.008588228
ENSMMUG00000060893		-	1.369532879	0.000916327	0.004076666
ENSMMUG00000064529		-	1.820334557	7.36E-14	2.25E-12
ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	-	1.177865345	9.25E-20	5.49E-18
ENSMMUG00000022442	single stranded DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:77886]	-	1.112959541	1.32E-09	2.06E-08
ENSMMUG00000055710	taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]	-	1.439234741	0.003744918	0.013819734
ENSMMUG00000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	-	2.060626408	1.59E-14	5.37E-13
ENSMMUG00000049575	T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]	-	0.904098839	0.00040229	0.001984284
ENSMMUG00000050984	T cell receptor beta variable 5-4 [Source:HGNC Symbol;Acc:HGNC:12221]	-	1.555327137	0.005416728	0.018947062

ENSMMUG00000049767		-	3.032917213	0.001781525	0.007271501
ENSMMUG00000048246		-	2.157217052	0.006676322	0.022635897
ENSMMUG00000057494	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]	-	1.714009951	1.02E-07	1.14E-06
ENSMMUG00000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	-	1.790540236	1.85E-11	3.95E-10
ENSMMUG00000016286	protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]	-	1.088608457	2.03E-10	3.65E-09
ENSMMUG00000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	-	-2.04505778	1.61E-13	4.64E-12
ENSMMUG00000052682		-	3.262881496	6.18E-11	1.21E-09
ENSMMUG00000059019		-	3.123331932	6.09E-20	3.65E-18
ENSMMUG00000058459		-	2.133660613	0.008532171	0.028046562
ENSMMUG00000055756		-	3.175598942	0.007148908	0.024075202
ENSMMUG00000043809	caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]	-	0.737758432	4.18E-06	3.33E-05
ENSMMUG00000045428	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.912386843	0.01268108	0.039031341
ENSMMUG00000012633	family with sequence similarity 131 member B [Source:VGNC Symbol;Acc:VGNC:72315]	-	3.443177021	0.008347181	0.027522342
ENSMMUG00000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	-	2.251828987	3.54E-19	2.02E-17
ENSMMUG00000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	-	1.884739218	4.24E-18	2.18E-16
ENSMMUG00000058370	taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]	-	4.661310927	4.53E-08	5.39E-07
ENSMMUG00000042798		-	-0.98064198	2.34E-05	0.00015549
ENSMMUG00000045869		-	0.909510423	0.011745159	0.036633089
ENSMMUG00000013955	TRPM8 channel associated factor 2 [Source:NCBI gene;Acc:707579]	-	-0.5671522	0.003954585	0.0144905
ENSMMUG00000005136	TRPM8 channel associated factor 1 [Source:VGNC Symbol;Acc:VGNC:79346]	-	0.626722993	3.83E-05	0.000242136
ENSMMUG00000063362	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.708451424	0.013689912	0.041715263
ENSMMUG00000057973		-	1.186937815	0.004488473	0.016167958
ENSMMUG00000049864		-	1.899432726	0.010785786	0.034111204
ENSMMUG00000018549	zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]	-	2.588221789	2.19E-08	2.76E-07
ENSMMUG00000011788	zinc finger protein 212 [Source:VGNC Symbol;Acc:VGNC:78418]	-	0.961189115	0.005551337	0.019331849
ENSMMUG00000002497	zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]	-	0.894659621	0.000154391	0.00084803
ENSMMUG00000060626	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.555668818	0.000404849	0.001995499
ENSMMUG00000051020	zinc finger protein 467 [Source:NCBI gene;Acc:712106]	-	1.109343229	2.44E-05	0.000161605
ENSMMUG00000048892	SCO-spondin [Source:VGNC Symbol;Acc:VGNC:81765]	-	0.676146803	0.005508474	0.019210477
ENSMMUG00000022633	replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]	-	1.106441846	0.00063139	0.002954283
ENSMMUG00000062696		-	1.160330649	0.001007502	0.004437248
ENSMMUG00000022636	GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]	-	1.380243542	1.32E-06	1.15E-05
ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	-	1.901522749	1.69E-22	1.34E-20

ENSMMUG00000052830		-	2.153640968	4.59E-11	9.14E-10
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	-	1.104316144	3.93E-08	4.73E-07
ENSMMUG00000017008	GTPase, IMAP family member 2 [Source:VGNC Symbol;Acc:VGNC:72980]	-	2.561220009	0.000230236	0.001216964
ENSMMUG00000020435	amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]	-	1.066296008	4.94E-07	4.78E-06
ENSMMUG00000020436	potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]	-	-0.91674047	3.82E-07	3.80E-06
ENSMMUG00000006682	chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]	-	1.307444735	0.001578049	0.006539297
ENSMMUG00000038898	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.750906063	0.000211875	0.00112799
ENSMMUG00000010943	protein kinase AMP-activated non-catalytic subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:81745]	-	0.756286369	0.012803976	0.039375035
ENSMMUG00000012238	polypeptide N-acetylgalactosaminyltransferase 11 [Source:VGNC Symbol;Acc:VGNC:72749]	-	0.579897011	0.01138021	0.035693288
ENSMMUG00000002878	X-ray repair cross complementing 2 [Source:VGNC Symbol;Acc:VGNC:78813]	-	0.724674439	0.003069146	0.011617881
ENSMMUG00000039033	nucleolar protein with MIF4G domain 1 [Source:VGNC Symbol;Acc:VGNC:81729]	-	2.539249758	0.001412079	0.005948207
ENSMMUG00000008733	ubiquitin protein ligase E3C [Source:VGNC Symbol;Acc:VGNC:79049]	-	0.704826194	0.000679731	0.003151032
ENSMMUG000000052713	leucine rich repeat containing 14B [Source:NCBI gene;Acc:723071]	-	0.572255232	0.001428407	0.006004364
ENSMMUG000000063025	coiled-coil domain containing 127 [Source:NCBI gene;Acc:710325]	-	0.465687948	0.001188408	0.005124553
ENSMMUG00000000752	programmed cell death 6 [Source:NCBI gene;Acc:723043]	-	0.441798841	0.00148552	0.006207225
ENSMMUG000000052291		-	1.523807827	0.001388062	0.005861123
ENSMMUG000000061096	tubulin polymerization promoting protein [Source:NCBI gene;Acc:708834]	-	1.216569613	0.014987636	0.044927665
ENSMMUG000000003194		-	1.106077623	0.00332501	0.012443721
ENSMMUG000000014738	bromodomain containing 9 [Source:VGNC Symbol;Acc:VGNC:70386]	-	4.250150398	0.000134598	0.000747807
ENSMMUG000000019441	solute carrier family 12 member 7 [Source:VGNC Symbol;Acc:VGNC:77390]	-	1.096759466	8.17E-06	6.07E-05
ENSMMUG000000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	-	1.100571039	1.35E-18	7.39E-17
ENSMMUG000000061176		-	0.739709683	7.87E-09	1.07E-07
ENSMMUG00000002561	NOP2/Sun RNA methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75466]	-	1.949820057	0.004691806	0.016801122
ENSMMUG000000018746	FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]	-	1.213955854	3.66E-07	3.66E-06
ENSMMUG000000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]	-	1.372517499	4.65E-11	9.23E-10
ENSMMUG000000011026	dynein axonemal heavy chain 5 [Source:VGNC Symbol;Acc:VGNC:71942]	-	3.143942874	0.004374776	0.01583161
ENSMMUG000000065128	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.846998459	0.001140411	0.004941898
ENSMMUG000000059412		-	0.480218643	0.014771686	0.044384692
ENSMMUG000000062083		-	1.690089904	0.000827148	0.003744058
ENSMMUG000000059036		-	2.127363861	0.000620824	0.002918474
ENSMMUG000000059710		-	1.36431862	0.003765282	0.013876147
ENSMMUG000000013954	PDZ domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75829]	-	0.407059061	0.001635877	0.006750107
ENSMMUG000000009574	solute carrier family 45 member 2 [Source:VGNC Symbol;Acc:VGNC:82240]	-	1.059292106	0.000264923	0.001381048
ENSMMUG000000013467	alpha-methylacyl-CoA racemase [Source:NCBI gene;Acc:698365]	-	0.528207786	0.002916009	0.011148089
ENSMMUG000000018739	sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]	-	-4.24683806	1.13E-06	1.01E-05

ENSMMUG0000006202	solute carrier family 1 member 3 [Source:VGNC Symbol;Acc:VGNC:77411]	-	0.410479551	0.000131575	0.00073188
ENSMMUG00000052836			0.538499214	0.00138235	0.005840524
ENSMMUG00000018963	glial cell derived neurotrophic factor [Source:VGNC Symbol;Acc:VGNC:72912]		-1.30046606	0.005335745	0.018696439
ENSMMUG00000017163	EGF like, fibronectin type III and laminin G domains [Source:VGNC Symbol;Acc:VGNC:72122]		0.500285555	0.003688187	0.013639093
ENSMMUG00000004774	maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]		1.896217504	1.80E-05	0.000122876
ENSMMUG00000021034	complement C6 [Source:VGNC Symbol;Acc:VGNC:70477]		-2.23597167	8.80E-12	2.00E-10
ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]		3.043602631	1.04E-13	3.08E-12
ENSMMUG00000055022	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		3.658762362	0.000268659	0.001394491
ENSMMUG00000047162	fibroblast growth factor 10 [Source:VGNC Symbol;Acc:VGNC:84378]		0.666242347	0.004527849	0.016293051
ENSMMUG00000059786	hyperpolarization activated cyclic nucleotide gated potassium channel 1 [Source:NCBI gene;Acc:704286]		2.737572992	0.009059258	0.029454118
ENSMMUG00000016149	embigin [Source:VGNC Symbol;Acc:VGNC:72144]		2.269442395	0.008139878	0.026927462
ENSMMUG00000013841	poly(ADP-ribose) polymerase family member 8 [Source:VGNC Symbol;Acc:VGNC:84477]		1.647238141	0.002187994	0.008714069
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]		1.561776396	4.72E-12	1.11E-10
ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]		2.006649247	4.44E-20	2.70E-18
ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]		-0.91521922	6.62E-05	0.00039466
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]		2.197894117	2.03E-10	3.65E-09
ENSMMUG00000061973			2.420416376	5.93E-38	2.13E-35
ENSMMUG00000010466	solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]		2.434203365	2.20E-13	6.18E-12
ENSMMUG00000051661			1.559108777	9.17E-06	6.72E-05
ENSMMUG00000005181	RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]		1.504349099	0.000169035	0.000919106
ENSMMUG00000021812	ERCC excision repair 8, CSA ubiquitin ligase complex subunit [Source:VGNC Symbol;Acc:VGNC:72425]		0.706100995	1.21E-10	2.27E-09
ENSMMUG00000060505			1.230704824	0.001280018	0.005466058
ENSMMUG00000021131	regulator of G protein signaling 7 binding protein [Source:VGNC Symbol;Acc:VGNC:76808]		1.032159602	0.002843353	0.01089706
ENSMMUG00000015041	CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]		1.436510186	0.001323072	0.005620551
ENSMMUG00000051169			1.971268282	0.000238468	0.001254796
ENSMMUG00000016522	neurolysin [Source:VGNC Symbol;Acc:VGNC:75183]		0.581640641	1.40E-05	9.80E-05
ENSMMUG00000038355			2.899406678	0.01209974	0.037522039
ENSMMUG00000049935			1.421820229	8.46E-10	1.37E-08
ENSMMUG00000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]		1.025362212	7.76E-09	1.06E-07
ENSMMUG00000009158	MARVEL domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74592]		0.477685247	0.002941864	0.011225511
ENSMMUG00000040485	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		0.590421636	0.001425646	0.005998151
ENSMMUG00000006217	general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]		1.021924301	0.000834837	0.003775209
ENSMMUG00000054237	Y RNA [Source:RFAM;Acc:RF00019]		2.207673043	4.22E-06	3.36E-05
ENSMMUG00000059671			1.507798146	2.39E-16	1.02E-14
ENSMMUG00000063792			0.519377168	0.010282489	0.032726135
ENSMMUG00000064344	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		-4.1431731	7.37E-05	0.000433792
ENSMMUG00000011061	ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]		0.698529579	1.63E-07	1.74E-06

ENSMMUG00000006139	3-hydroxy-3-methylglutaryl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:73484]	0.688257412	1.94E-10	3.51E-09
ENSMMUG00000006141	ceramide transporter 1 [Source:VGNC Symbol;Acc:VGNC:71298]	0.318740073	0.009513824	0.030676924
ENSMMUG00000022982	IQ motif containing GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:73756]	1.763531064	3.16E-05	0.000203752
ENSMMUG00000021358	angiogenic factor with G-patch and FHA domains 1 [Source:NCBI gene;Acc:707686]	0.839802651	0.013488811	0.041209934
ENSMMUG00000021357	zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]	2.28941429	6.76E-06	5.13E-05
ENSMMUG00000020731	terminal nucleotidyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:79637]	1.890678804	0.012079372	0.037475451
ENSMMUG00000003143	thrombospondin 4 [Source:VGNC Symbol;Acc:VGNC:78346]	0.99197642	0.000787125	0.00359539
ENSMMUG00000018283	dihydrofolate reductase [Source:NCBI gene;Acc:711268]	1.666127793	0.008949503	0.029165438
ENSMMUG00000018284	mutS homolog 3 [Source:VGNC Symbol;Acc:VGNC:74932]	0.834922551	0.000160015	0.000875838
ENSMMUG00000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	2.183737046	1.59E-12	4.01E-11
ENSMMUG00000006932	creatine kinase, mitochondrial 2 [Source:VGNC Symbol;Acc:VGNC:71231]	1.172545976	0.002488367	0.009720546
ENSMMUG00000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	0.860717932	1.30E-05	9.21E-05
ENSMMUG00000046560	transmembrane protein 167A [Source:VGNC Symbol;Acc:VGNC:84513]	0.743840616	0.007230549	0.024321852
ENSMMUG00000064265	X-ray repair cross complementing 4 [Source:NCBI gene;Acc:712291]	0.827415646	0.000353576	0.001764483
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	2.150448011	5.14E-15	1.86E-13
ENSMMUG00000061282	hyaluronan and proteoglycan link protein 1 [Source:NCBI gene;Acc:712501]	3.479853702	0.004811105	0.017175694
ENSMMUG00000003245	RAS p21 protein activator 1 [Source:VGNC Symbol;Acc:VGNC:76667]	0.297288753	0.006191062	0.021205975
ENSMMUG00000003248	cyclin H [Source:VGNC Symbol;Acc:VGNC:70732]	0.304243927	0.002436241	0.009558871
ENSMMUG00000009319	transmembrane protein 161B [Source:VGNC Symbol;Acc:VGNC:84508]	1.371560651	4.78E-05	0.000295064
ENSMMUG00000019836	myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]	1.308416895	6.56E-06	5.00E-05
ENSMMUG00000055392		1.438901107	9.80E-06	7.12E-05
ENSMMUG00000056790		4.140763081	9.55E-06	6.96E-05
ENSMMUG00000018972	RNA polymerase III subunit G [Source:VGNC Symbol;Acc:VGNC:84480]	1.280230086	0.000156424	0.000857854
ENSMMUG00000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	1.800686894	9.88E-32	2.20E-29
ENSMMUG00000055271		1.795542034	5.98E-10	9.87E-09
ENSMMUG00000018976	adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]	1.295518028	0.000194386	0.001045198
ENSMMUG00000053899		2.371602089	0.003093893	0.011691096
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	1.223342568	6.38E-05	0.000382304
ENSMMUG00000010632	family with sequence similarity 81 member B [Source:VGNC Symbol;Acc:VGNC:72365]	3.778173449	2.46E-05	0.000162765
ENSMMUG00000001209	arylsulfatase family member K [Source:VGNC Symbol;Acc:VGNC:84280]	1.218670622	0.000246089	0.001291988
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	1.219870623	7.62E-21	5.16E-19
ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]	1.580843332	2.15E-12	5.30E-11
ENSMMUG00000002063	endoplasmic reticulum aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:72066]	0.504924242	0.001316017	0.005595666
ENSMMUG00000011043	endoplasmic reticulum aminopeptidase 2 [Source:VGNC Symbol;Acc:VGNC:72141]	0.549701959	1.75E-07	1.85E-06

ENSMMUG00000065221		0.70793963	7.82E-07	7.25E-06
		-		
ENSMMUG00000018542	leucyl and cystinyl aminopeptidase [Source:VGNC Symbol;Acc:VGNC:74438]	0.608198907	3.78E-05	0.000239403
ENSMMUG00000000307	RIO kinase 2 [Source:VGNC Symbol;Acc:VGNC:76774]	0.267340341	0.009781908	0.03135353
ENSMMUG00000054789	family with sequence similarity 174 member A [Source:NCBI gene;Acc:702300]	0.688898381	2.28E-06	1.90E-05
ENSMMUG00000007773	solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]	2.477272768	5.77E-05	0.000349324
		-		
ENSMMUG00000007844	peptidylglycine alpha-amidating monooxygenase [Source:VGNC Symbol;Acc:VGNC:75752]	1.047107623	0.00033047	0.001667573
		-		
ENSMMUG00000057827		0.585880943	0.000483812	0.002344332
		-		
ENSMMUG00000007786	gypsy retrotransposon integrase 1 [Source:VGNC Symbol;Acc:VGNC:73015]	0.321670284	0.006957869	0.023488252
		-		
ENSMMUG00000007787	diphosphoinositol pentakisphosphate kinase 2 [Source:VGNC Symbol;Acc:VGNC:76128]	0.696603176	0.000615262	0.002898208
ENSMMUG00000059227		3.698121992	0.015114227	0.045220141
		-		
ENSMMUG00000013183	F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]	0.571099903	0.000850804	0.00383258
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]	-1.02501929	2.48E-09	3.70E-08
		-		
ENSMMUG00000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]	1.254688032	1.05E-06	9.42E-06
		-		
ENSMMUG00000042638		2.940026292	0.010569974	0.033496665
		-		
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	2.081089299	5.91E-14	1.83E-12
		-		
ENSMMUG00000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	2.311416311	1.24E-30	2.39E-28
		-		
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	1.353254337	1.28E-09	2.01E-08
ENSMMUG00000042951	signal recognition particle 19 [Source:NCBI gene;Acc:693829]	0.950503387	5.82E-06	4.49E-05
ENSMMUG00000020488	receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]	0.761866163	1.01E-08	1.34E-07
ENSMMUG00000015114	toll like receptor adaptor molecule 2 [Source:NCBI gene;Acc:100426353]	0.38372264	0.000515823	0.002476339
ENSMMUG00000060812	autophagy related 12 [Source:NCBI gene;Acc:696765]	1.008257063	1.03E-07	1.15E-06
ENSMMUG00000015288	adaptor related protein complex 3 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:69867]	0.649477605	0.00578566	0.020012904
		-		
ENSMMUG00000022191	laeverin [Source:VGNC Symbol;Acc:VGNC:74372]	2.571872245	0.002992936	0.011383224
		-		
ENSMMUG00000022192		1.290987271	0.000258058	0.001347265
		-		
ENSMMUG00000056563	ADP ribosylation factor like GTPase 14 effector protein like [Source:NCBI gene;Acc:698168]	0.660293194	0.006324779	0.021614835
		-		
ENSMMUG00000008738	COMM domain containing 10 [Source:VGNC Symbol;Acc:VGNC:71374]	0.717955263	0.016239003	0.048031963
		-		
ENSMMUG00000037127	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.364219914	0.009586829	0.0308552
		-		
ENSMMUG00000063474		0.722852087	4.69E-08	5.57E-07
		-		
ENSMMUG00000017685	hydroxysteroid 17-beta dehydrogenase 4 [Source:VGNC Symbol;Acc:VGNC:73530]	0.432403228	1.20E-06	1.07E-05
		-		
ENSMMUG00000059145		0.929928022	0.014623157	0.04405167
		-		
ENSMMUG00000018764		1.404473113	0.000470006	0.002282957
		-		
ENSMMUG00000063354		1.306033546	0.001390375	0.005867356
ENSMMUG00000053794		-0.83542487	0.000826458	0.003742977

ENSMMUG00000021006	zinc finger protein 474 [Source:VGNC Symbol;Acc:VGNC:81617]	-	1.219014017	0.000729352	0.003350051
ENSMMUG00000046428		-	1.459376282	6.04E-07	5.74E-06
ENSMMUG00000023598	sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]	-	2.047614274	0.000524493	0.002514518
ENSMMUG00000006646	casein kinase 1 gamma 3 [Source:VGNC Symbol;Acc:VGNC:81384]	-	0.428891558	0.015180872	0.045390484
ENSMMUG00000016683	phosphorylated adaptor for RNA export [Source:NCBI gene;Acc:702980]	-	1.564158882	0.000280962	0.001450101
ENSMMUG00000037806	chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]	-	1.785210832	0.007776215	0.025883188
ENSMMUG00000011214	solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]	-	1.348073982	3.06E-06	2.50E-05
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	-	1.156529849	8.62E-14	2.60E-12
ENSMMUG00000058082		-	0.518583016	8.55E-06	6.32E-05
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	-	0.89083202	2.01E-17	9.59E-16
ENSMMUG00000010858	prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]	-	2.582279911	3.48E-14	1.12E-12
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	-	1.305374425	1.65E-08	2.15E-07
ENSMMUG00000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]	-	1.704924666	1.64E-08	2.14E-07
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	-	1.465859109	4.23E-20	2.60E-18
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	-	1.601620199	4.31E-12	1.02E-10
ENSMMUG00000010309	septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]	-	1.826726118	2.25E-07	2.32E-06
ENSMMUG00000039781	sosondowah ankyrin repeat domain family member A [Source:VGNC Symbol;Acc:VGNC:84498]	-	-1.44305984	2.09E-05	0.000140721
ENSMMUG00000010312	shroom family member 1 [Source:VGNC Symbol;Acc:VGNC:77299]	-	1.535256518	7.97E-18	3.95E-16
ENSMMUG00000060221	growth differentiation factor 9 [Source:NCBI gene;Acc:712792]	-	1.232377764	6.55E-11	1.28E-09
ENSMMUG00000059080		-	1.011600692	0.002926947	0.011183807
ENSMMUG00000015640	AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]	-	1.105933508	2.23E-06	1.86E-05
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	-	1.863278537	5.02E-17	2.33E-15
ENSMMUG00000052915		-	0.993779784	0.008400558	0.027665811
ENSMMUG00000016641	ubiquitin conjugating enzyme E2 B [Source:VGNC Symbol;Acc:VGNC:78692]	-	0.820192445	0.000248368	0.00130249
ENSMMUG00000053384		-	1.630615192	3.01E-20	1.91E-18
ENSMMUG00000000358	jade family PHD finger 2 [Source:VGNC Symbol;Acc:VGNC:73641]	-	0.691172055	0.007791761	0.02591033
ENSMMUG00000004417	secretion associated Ras related GTPase 1B [Source:VGNC Symbol;Acc:VGNC:76970]	-	0.500338782	0.000115705	0.000651883
ENSMMUG00000012463	DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]	-	0.599382039	0.000615479	0.002898208
ENSMMUG00000005286	cation channel sperm associated 3 [Source:VGNC Symbol;Acc:VGNC:70592]	-	0.372113254	0.009812865	0.031445567
ENSMMUG00000052860	paired like homeodomain 1 [Source:NCBI gene;Acc:711666]	-	0.418194158	0.015460173	0.046127235
ENSMMUG00000016357	polycystin 2 like 2, transient receptor potential cation channel [Source:VGNC Symbol;Acc:VGNC:76009]	-	1.736893283	0.001133723	0.004915954
ENSMMUG00000008009	family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]	-	1.042033319	6.32E-05	0.000379172
ENSMMUG00000013272	GDNF family receptor alpha 3 [Source:VGNC Symbol;Acc:VGNC:72919]	-	0.450380648	0.001747097	0.007144804

ENSMMUG00000055069	early growth response 1 [Source:NCBI gene;Acc:716786]	0.365115558	0.006509072	0.022149167
ENSMMUG00000005871	eukaryotic translation termination factor 1 [Source:VGNC Symbol;Acc:VGNC:84370]	0.456948613	0.003369989	0.012595245
ENSMMUG00000017985	catenin alpha 1 [Source:VGNC Symbol;Acc:VGNC:84291]	0.431091678	0.002184896	0.008705733
ENSMMUG00000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]	0.718567593	5.17E-14	1.63E-12
ENSMMUG00000019582	ankyrin repeat and KH domain-containing protein 1 [Source:NCBI gene;Acc:698045]	0.308740207	0.004229412	0.015376987
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]	2.177667135	4.87E-31	1.02E-28
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	2.280864687	1.37E-21	9.87E-20
ENSMMUG00000062326		2.165692107	1.23E-18	6.76E-17
ENSMMUG00000024537		2.806347605	1.06E-06	9.53E-06
ENSMMUG00000010007	CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]	2.162712417	1.16E-11	2.57E-10
ENSMMUG00000060632		1.759881557	2.70E-05	0.000176595
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]	1.420250664	1.31E-12	3.33E-11
ENSMMUG00000056796	NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]	2.181931308	4.00E-05	0.000251856
ENSMMUG00000010008	IK cytokine [Source:VGNC Symbol;Acc:VGNC:73703]	0.80579523	0.014192605	0.043013378
ENSMMUG00000004483	histidyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73346]	0.436939478	0.003752539	0.013836932
ENSMMUG00000014571	protocadherin alpha-C2 [Source:NCBI gene;Acc:698874]	0.254586647	0.015128442	0.045253015
ENSMMUG00000062270	protocadherin beta 3 [Source:NCBI gene;Acc:700243]	1.577800833	0.004639437	0.016639084
ENSMMUG00000008710	protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]	0.958538368	0.00127713	0.005456822
ENSMMUG00000006287	DAP3 binding cell death enhancer 1 [Source:VGNC Symbol;Acc:VGNC:71806]	0.560803264	1.29E-05	9.11E-05
ENSMMUG00000006291	protocadherin 12 [Source:VGNC Symbol;Acc:VGNC:75776]	0.794610349	6.15E-05	0.000370111
ENSMMUG00000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]	0.628117268	9.30E-08	1.04E-06
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]	1.390154438	1.58E-09	2.44E-08
ENSMMUG00000050405		1.374580078	2.94E-10	5.15E-09
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]	1.456828357	1.87E-19	1.08E-17
ENSMMUG00000063348		0.896668181	1.42E-05	9.94E-05
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	0.692335049	1.88E-06	1.59E-05
ENSMMUG00000064432		2.436594279	0.009965459	0.031883557
ENSMMUG00000017714	Rho guanine nucleotide exchange factor 37 [Source:VGNC Symbol;Acc:VGNC:69941]	1.209340592	0.000320876	0.001625596
ENSMMUG00000004749	PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]	3.482181029	2.83E-10	4.98E-09
ENSMMUG00000011557	platelet derived growth factor receptor beta [Source:VGNC Symbol;Acc:VGNC:75929]	0.31246417	9.73E-07	8.82E-06
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	-0.89453907	1.14E-09	1.79E-08
ENSMMUG00000051062		-0.63248967	0.009399372	0.030377368
ENSMMUG00000020679	myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]	1.273923497	1.68E-06	1.44E-05
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	2.023521716	9.89E-12	2.22E-10
ENSMMUG00000019764	dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]	1.686230376	8.27E-09	1.12E-07
ENSMMUG00000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]	0.998733659	1.20E-05	8.56E-05
ENSMMUG00000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]	1.618660477	4.07E-09	5.90E-08
ENSMMUG00000053656		1.038027904	6.22E-09	8.65E-08
ENSMMUG00000003499	solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]	0.637063045	0.013137896	0.040269445
ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]	-1.21417571	1.65E-13	4.73E-12
ENSMMUG00000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	1.36052904	6.44E-20	3.84E-18

ENSMMUG00000054302	antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]	-	0.988863752	0.00010323	0.000587739
ENSMMUG00000056369	SAP30 like [Source:NCBI gene;Acc:714400]	-	3.041087085	0.00775614	0.025834763
ENSMMUG00000021228	gem nuclear organelle associated protein 5 [Source:VGNC Symbol;Acc:VGNC:72751]	-	0.428900867	0.001806459	0.007366086
ENSMMUG00000035086	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	-	1.544901391	0.005484467	0.019153298
ENSMMUG00000062861		-	-0.78589709	0.002546423	0.009924539
ENSMMUG00000059241		-	4.855807108	6.07E-14	1.87E-12
ENSMMUG00000015840	RAN binding protein 17 [Source:VGNC Symbol;Acc:VGNC:84485]	-	0.58002208	1.10E-06	9.82E-06
ENSMMUG00000003067	endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]	-	0.813109646	1.09E-06	9.77E-06
ENSMMUG00000054793		-	2.015366095	7.05E-05	0.000417302
ENSMMUG00000019926	cytoplasmic polyadenylation element binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71450]	-	0.702748152	1.76E-06	1.50E-05
ENSMMUG00000009059	Fas associated factor family member 2 [Source:VGNC Symbol;Acc:VGNC:72332]	-	1.487686335	0.000642193	0.002993838
ENSMMUG00000013283	cadherin related family member 2 [Source:NCBI gene;Acc:697249]	-	2.046838371	2.09E-07	2.17E-06
ENSMMUG00000013284	G protein regulated inducer of neurite outgrowth 1 [Source:VGNC Symbol;Acc:VGNC:72998]	-	2.357973672	0.000437186	0.002140013
ENSMMUG00000002649	unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]	-	2.621000143	3.40E-05	0.000217357
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	-	1.116019878	7.26E-10	1.19E-08
ENSMMUG00000009041	nuclear receptor binding SET domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75401]	-	0.817698662	0.016060401	0.047634307
ENSMMUG00000009045	RAB24, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81524]	-	-1.35744976	0.002749253	0.010588514
ENSMMUG00000016192	lectin, mannose binding 2 [Source:VGNC Symbol;Acc:VGNC:74302]	-	0.398670007	0.003681656	0.013618534
ENSMMUG00000019807	regulator of G protein signaling 14 [Source:VGNC Symbol;Acc:VGNC:76918]	-	0.615044579	4.06E-06	3.24E-05
ENSMMUG00000003146	PDZ and LIM domain 7 [Source:VGNC Symbol;Acc:VGNC:75848]	-	0.738071903	0.010236153	0.032608262
ENSMMUG00000016911	DEAD-box helicase 41 [Source:VGNC Symbol;Acc:VGNC:71660]	-	0.704780485	0.006778183	0.022931354
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	-	1.171440692	1.87E-22	1.46E-20
ENSMMUG000000041519	zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]	-	2.010531783	0.000324323	0.001641277
ENSMMUG000000049557		-	1.981256186	0.000416808	0.002048683
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	-	1.362299042	5.29E-10	8.84E-09
ENSMMUG00000061451	butyrophilin like 8 [Source:NCBI gene;Acc:707591]	-	0.414804196	0.016254066	0.048066378
ENSMMUG00000031833	butyrophilin like 9 [Source:NCBI gene;Acc:106996463]	-	0.646903041	0.009468427	0.030551253
ENSMMUG00000062522		-	1.647611647	1.18E-10	2.22E-09
ENSMMUG00000059428	olfactory receptor 2V2 [Source:NCBI gene;Acc:707790]	-	1.539779486	9.02E-08	1.02E-06
ENSMMUG00000061151		-	1.508222558	1.03E-06	9.29E-06
ENSMMUG00000054414		-	1.737659908	1.68E-11	3.62E-10
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	-	1.669686332	3.75E-17	1.75E-15
ENSMMUG00000003604	receptor for activated C kinase 1 [Source:VGNC Symbol;Acc:VGNC:76581]	-	2.505248897	0.014730462	0.044298792
ENSMMUG00000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	-	-1.69438149	1.19E-22	9.72E-21
ENSMMUG00000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	-	0.794243585	6.12E-09	8.53E-08
ENSMMUG00000021044	afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]	-	0.454595678	0.000369686	0.001835732
ENSMMUG00000062443		-	1.116724366	1.44E-07	1.55E-06

ENSMMUG00000057859		-	2.163759955	1.86E-05	0.000126506
ENSMMUG00000008228	unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]	-	2.257837963	1.04E-05	7.53E-05
ENSMMUG00000057983			2.776813323	0.000850273	0.00383142
ENSMMUG00000054834			0.337742603	0.003169642	0.011913131
ENSMMUG00000020412	parkin coregulated [Source:VGNC Symbol;Acc:VGNC:75646]	-	0.870667983	1.64E-05	0.000112865
ENSMMUG00000057544			1.412660785	7.65E-09	1.04E-07
ENSMMUG00000000500	fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72546]		0.557994364	0.000194784	0.001046935
ENSMMUG00000011994	T cell activation RhoGTPase activating protein [Source:VGNC Symbol;Acc:VGNC:78126]		0.65711443	0.003815899	0.014037342
ENSMMUG00000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]		2.150468121	6.09E-14	1.87E-12
ENSMMUG00000021534	solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]	-	1.707077928	0.001731349	0.007088188
ENSMMUG00000061031			2.734316446	2.70E-26	3.47E-24
ENSMMUG00000058557			1.532746334	1.05E-06	9.42E-06
ENSMMUG00000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]		1.820749335	3.49E-10	5.99E-09
ENSMMUG00000059327	NUS1 dehydrodolichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]	-	0.793066681	9.90E-07	8.96E-06
ENSMMUG00000008525	minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]	-	3.533221789	7.86E-06	5.87E-05
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	-	3.075364778	6.19E-08	7.20E-07
ENSMMUG00000005225	gap junction protein alpha 1 [Source:VGNC Symbol;Acc:VGNC:73055]	-	0.812785678	3.36E-05	0.000215033
ENSMMUG00000024966	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	1.824565569	0.003272156	0.012249185
ENSMMUG00000061165			0.452134429	0.000209495	0.001116591
ENSMMUG00000060822			0.784806491	8.82E-07	8.07E-06
ENSMMUG00000065276			0.532434354	0.000112167	0.000632967
ENSMMUG00000003134	ring finger protein 217 [Source:VGNC Symbol;Acc:VGNC:76801]	-	0.955487154	0.000107001	0.000606251
ENSMMUG00000062110	TPD52 like 1 [Source:NCBI gene;Acc:716568]	-	0.778325318	0.015050195	0.045061865
ENSMMUG00000015317	HD domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73209]	-	1.894210594	6.15E-06	4.72E-05
ENSMMUG00000060901			1.451729987	8.90E-22	6.64E-20
ENSMMUG00000048882	KIAA0408 ortholog [Source:NCBI gene;Acc:100429459]	-	0.474749387	0.000467291	0.002273704
ENSMMUG00000058574			0.53537387	0.000148713	0.00081909
ENSMMUG00000022136	laminin subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:74225]		0.436687242	0.000116889	0.000657496
ENSMMUG00000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]		0.710644602	4.28E-07	4.19E-06
ENSMMUG00000021499	sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]	-	1.517099926	3.45E-08	4.20E-07
ENSMMUG00000065212			0.91216883	0.000347467	0.001738326
ENSMMUG00000059491			0.936186987	6.20E-07	5.88E-06
ENSMMUG00000017549	ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]	-	1.549437767	5.13E-10	8.58E-09
ENSMMUG00000004996	monooxygenase DBH like 1 [Source:VGNC Symbol;Acc:VGNC:74800]	-	0.594834894	0.002354829	0.009267965
ENSMMUG00000013236	solute carrier family 18 member B1 [Source:VGNC Symbol;Acc:VGNC:77549]	-	0.561231336	0.010382732	0.033000237
ENSMMUG00000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	-	1.066967996	5.90E-13	1.58E-11
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	-	4.324428613	6.04E-68	2.12E-64

ENSMMUG00000038064	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.059942527	0.009483511	0.030592887
ENSMMUG00000061787		2.865965904	4.08E-05	0.000256185
ENSMMUG00000018166	MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]	0.849681935	5.44E-07	5.22E-06
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	0.720255362	2.55E-08	3.19E-07
ENSMMUG00000044284	40S ribosomal protein S11-like [Source:NCBI gene;Acc:706532]	0.837109709	0.000795078	0.003630536
ENSMMUG00000053936		0.743304841	0.000680809	0.003154987
ENSMMUG00000016376	mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]	1.169706565	1.20E-05	8.56E-05
ENSMMUG00000000123	NHS like 1 [Source:VGNC Symbol;Acc:VGNC:75225]	0.286023779	0.007569922	0.025286568
ENSMMUG00000019136	taxilin beta [Source:VGNC Symbol;Acc:VGNC:79325]	0.554881764	1.05E-05	7.60E-05
ENSMMUG00000058187		1.127239359	1.82E-19	1.06E-17
		-		
ENSMMUG00000023012	vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]	1.082054699	6.97E-05	0.000412958
		-		
ENSMMUG00000044958	adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]	1.264662232	5.63E-09	7.91E-08
		-		
ENSMMUG00000061117		0.778959327	0.000365128	0.001815671
ENSMMUG00000006430	androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:69667]	1.088395291	0.000280124	0.001446312
ENSMMUG00000005348	LTV1 ribosome biogenesis factor [Source:VGNC Symbol;Acc:VGNC:83430]	2.096165248	0.014051938	0.042633128
ENSMMUG00000003750	PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]	1.575529912	9.78E-05	0.000559514
ENSMMUG00000019443	syntaxin 11 [Source:VGNC Symbol;Acc:VGNC:78041]	3.407798097	0.000890225	0.003983286
		-		
ENSMMUG00000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	2.346331124	2.71E-14	8.87E-13
		-		
ENSMMUG00000060839		2.737391172	0.015736134	0.046850915
		-		
ENSMMUG00000029475	zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]	2.317668809	1.70E-07	1.80E-06
		-		
ENSMMUG00000050174		2.647127129	0.013154177	0.04030173
		-		
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	2.564829026	1.04E-11	2.32E-10
		-		
ENSMMUG00000060940	acidic residue methyltransferase 1 [Source:NCBI gene;Acc:704570]	2.854011525	7.34E-06	5.52E-05
		-		
ENSMMUG00000018346	coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]	1.988852645	4.25E-05	0.000265921
		-		
ENSMMUG00000019045	estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]	0.883957243	0.000695799	0.00321654
		-		
ENSMMUG00000019048	spectrin repeat containing nuclear envelope protein 1 [Source:VGNC Symbol;Acc:VGNC:78143]	0.458782381	0.01083625	0.034224286
ENSMMUG00000013483	prolyl endopeptidase [Source:VGNC Symbol;Acc:VGNC:76396]	0.732375396	0.000308797	0.001572351
ENSMMUG00000055978		0.554509787	0.000938741	0.004165636
		-		
ENSMMUG00000057697		1.392195363	8.74E-06	6.44E-05
		-		
ENSMMUG00000051522	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.015932832	2.42E-07	2.49E-06
		-		
ENSMMUG00000051271		3.395562569	1.91E-25	2.14E-23
ENSMMUG00000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	1.079546758	6.62E-16	2.67E-14
ENSMMUG00000005929	ubiquitin specific peptidase 45 [Source:VGNC Symbol;Acc:VGNC:79233]	-0.44739467	0.002587936	0.010064164
		-		
ENSMMUG00000005923	failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]	0.989271224	2.97E-05	0.000192261
ENSMMUG00000009182	caspase 8 associated protein 2 [Source:VGNC Symbol;Acc:VGNC:70548]	2.732400046	0.015953051	0.047366002
		-		
ENSMMUG00000003464	midasin AAA ATPase 1 [Source:VGNC Symbol;Acc:VGNC:74530]	0.436524226	1.00E-05	7.29E-05
		-		
ENSMMUG00000003462	ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]	0.894744026	4.19E-10	7.13E-09

ENSMMUG00000060841		-	0.862824795	0.008998169	0.029296803
ENSMMUG00000002824	akirin 2 [Source:VGNC Symbol;Acc:VGNC:69665]	-	1.090112997	0.001411328	0.00594683
ENSMMUG00000002821	origin recognition complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:75715]	-	0.891962086	0.001547764	0.006423138
ENSMMUG00000017039	arginyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:76516]	-	0.530428611	0.000709831	0.003271101
ENSMMUG00000064804		-	1.545569611	9.69E-08	1.09E-06
ENSMMUG00000005442	5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]	-	1.414819646	4.62E-07	4.50E-06
ENSMMUG00000061590		-	2.248342195	1.58E-05	0.000109006
ENSMMUG00000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	-	1.919594089	1.65E-08	2.14E-07
ENSMMUG00000019261	collagen type XII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71291]	-	0.349840748	0.000279087	0.001442018
ENSMMUG00000017806	CD109 molecule [Source:VGNC Symbol;Acc:VGNC:70834]	-	0.523322519	0.000567869	0.00270398
ENSMMUG00000008133	solute carrier family 17 member 5 [Source:VGNC Symbol;Acc:VGNC:77405]	-	0.421838859	0.003348904	0.012526456
ENSMMUG00000060308		-	3.865503278	0.001135357	0.00492152
ENSMMUG00000002777	protein tyrosine phosphatase 4A1 [Source:VGNC Symbol;Acc:VGNC:83452]	-	0.476745612	0.003358485	0.012558943
ENSMMUG00000001399	3-hydroxymethyl-3-methylglutaryl-CoA lyase like 1 [Source:VGNC Symbol;Acc:VGNC:73429]	-	0.370247835	0.013053183	0.040053564
ENSMMUG00000051828		-	1.868018659	0.013815152	0.042032953
ENSMMUG00000012784	tubulointerstitial nephritis antigen [Source:VGNC Symbol;Acc:VGNC:78382]	-	1.278738564	0.011837011	0.036878563
ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	-	1.832207691	5.39E-09	7.62E-08
ENSMMUG00000011049	leucine rich repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:81087]	-	1.391729422	8.30E-05	0.00048243
ENSMMUG00000017137	glutathione S-transferase alpha 3 [Source:NCBI gene;Acc:709498]	-	0.314123451	0.002215	0.008811616
ENSMMUG00000050626		-	0.542106922	0.00574018	0.01987029
ENSMMUG00000052626	progesterone and adiponectin receptor family member 8 [Source:NCBI gene;Acc:708418]	-	0.734115005	1.03E-09	1.64E-08
ENSMMUG00000026975	mml-mir-206 [Source:miRBase;Acc:MI0007667]	-	4.689959121	6.95E-06	5.25E-05
ENSMMUG00000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	-	1.793088921	3.80E-08	4.59E-07
ENSMMUG00000053984		-	2.540947267	9.17E-08	1.03E-06
ENSMMUG00000056168		-	3.676106225	0.001247576	0.005353351
ENSMMUG00000023002	adhesion G protein-coupled receptor F5 [Source:VGNC Symbol;Acc:VGNC:69471]	-	0.378011634	0.000331149	0.001670397
ENSMMUG00000042154	ankyrin repeat domain 66 [Source:VGNC Symbol;Acc:VGNC:81024]	-	0.583236861	0.000266451	0.001386168
ENSMMUG00000019254	phospholipase A2 group VII [Source:VGNC Symbol;Acc:VGNC:76158]	-	0.708578881	0.000463011	0.002253723
ENSMMUG00000019252	tudor domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79319]	-	0.497022556	0.005300466	0.018598316
ENSMMUG00000019250	solute carrier family 25 member 27 [Source:VGNC Symbol;Acc:VGNC:77543]	-	0.747795741	1.14E-05	8.16E-05
ENSMMUG00000055199	cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]	-	1.950967721	4.15E-09	6.00E-08
ENSMMUG00000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	-	1.932462103	2.97E-07	3.00E-06
ENSMMUG00000003511	chloride intracellular channel 5 [Source:VGNC Symbol;Acc:VGNC:71171]	-	0.663761123	0.00054954	0.002625621

ENSMMUG00000021377	SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]	-	0.995851977	1.04E-06	9.35E-06
ENSMMUG00000014389	cell division cycle 5 like [Source:VGNC Symbol;Acc:VGNC:70801]	-	0.877481138	0.001532116	0.006369659
ENSMMUG00000014388	spermatogenesis associated serine rich 1 [Source:VGNC Symbol;Acc:VGNC:77975]	-	0.510868076	0.001490692	0.006221421
ENSMMUG00000060503	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-1.02183119	0.000818644	0.003716362
ENSMMUG00000063288		-	-0.57401683	0.00043722	0.002140013
ENSMMUG00000013920	triggering receptor expressed on myeloid cells 2 [Source:VGNC Symbol;Acc:VGNC:79089]	-	0.921869098	0.000768399	0.00351558
ENSMMUG00000062538	adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]	-	0.965182323	0.000266224	0.001385767
ENSMMUG00000021173	nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]	-	0.835796732	1.67E-09	2.56E-08
ENSMMUG00000021172	O-acyl-ADP-ribose deacylase 1 [Source:VGNC Symbol;Acc:VGNC:75444]	-	0.373572414	0.016634063	0.048945301
ENSMMUG00000021171	apolipoprotein B mRNA editing enzyme catalytic subunit 2 [Source:VGNC Symbol;Acc:VGNC:69986]	-	0.556707174	0.003021111	0.011471713
ENSMMUG00000021169	translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]	-	0.928226572	1.81E-06	1.54E-05
ENSMMUG00000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	-	-1.01118102	1.52E-11	3.29E-10
ENSMMUG00000013651	kinesin family member 6 [Source:VGNC Symbol;Acc:VGNC:73873]	-	2.357472009	0.015876952	0.047160028
ENSMMUG00000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	-	1.877294157	1.48E-11	3.22E-10
ENSMMUG00000023381	dynein axonemal heavy chain 8 [Source:VGNC Symbol;Acc:VGNC:71943]	-	0.481967177	1.07E-05	7.74E-05
ENSMMUG00000048502	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.129256243	0.000588587	0.002791601
ENSMMUG00000062055	glyoxalase I [Source:NCBI gene;Acc:719518]	-	0.683550293	7.14E-06	5.39E-05
ENSMMUG00000011575	coiled-coil domain containing 167 [Source:VGNC Symbol;Acc:VGNC:70833]	-	-1.40608804	0.000887756	0.00397531
ENSMMUG00000011573	cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]	-	1.022686576	0.000435169	0.002132952
ENSMMUG00000063198		-	3.845231717	5.21E-08	6.12E-07
ENSMMUG00000022193	FYVE, RhoGEF and PH domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72643]	-	1.658882086	0.003581599	0.013279947
ENSMMUG00000020558	serine/threonine kinase 38 [Source:VGNC Symbol;Acc:VGNC:78155]	-	1.346728711	0.000812109	0.003692673
ENSMMUG00000014508	potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]	-	1.359065313	9.37E-10	1.50E-08
ENSMMUG00000055914		-	1.673016013	3.55E-09	5.20E-08
ENSMMUG00000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	-	1.810173236	8.35E-13	2.19E-11
ENSMMUG00000023823	Y RNA [Source:RFAM;Acc:RF00019]	-	3.879556476	0.00107491	0.004701414
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	-	3.819855776	1.61E-05	0.000110886
ENSMMUG00000063472		-	3.563936031	0.016942583	0.049797912
ENSMMUG00000047729	inositol 1,4,5-trisphosphate receptor type 3 [Source:NCBI gene;Acc:718040]	-	1.473853294	0.010532056	0.033391593
ENSMMUG00000004287	death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]	-	1.030526506	7.80E-05	0.00045664
ENSMMUG00000003876	zinc finger and BTB domain containing 22 [Source:VGNC Symbol;Acc:VGNC:78893]	-	0.579097978	0.013437111	0.041069879
ENSMMUG00000003864	VPS52 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:78551]	-	0.668638139	0.000474279	0.002300526
ENSMMUG00000003850	collagen type XI alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71290]	-	0.619172748	0.000624607	0.002931241
ENSMMUG00000019371	major histocompatibility complex, class II, DP alpha [Source:NCBI gene;Acc:717992]	-	1.143272314	0.00530111	0.018598316
ENSMMUG00000023138	bromodomain containing 2 [Source:VGNC Symbol;Acc:VGNC:83422]	-	1.981712492	0.001583965	0.006559935
ENSMMUG00000006828	valyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:78755]	-	3.265980134	2.52E-05	0.000166147

ENSMMUG0000006827	von Willebrand factor A domain containing 7 [Source:VGNC Symbol;Acc:VGNC:78941]	3.033539341	3.04E-05	0.00019656
ENSMMUG0000009702	mutS homolog 5 [Source:NCBI gene;Acc:715494]	1.993246939	0.000274167	0.00142026
ENSMMUG00000058534		2.537432041	2.41E-07	2.48E-06
ENSMMUG00000015693	lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]	1.992986644	4.63E-06	3.65E-05
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	1.574237537	1.35E-09	2.10E-08
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	1.767908351	2.97E-20	1.90E-18
ENSMMUG00000054159	lymphocyte antigen 6 family member G5C [Source:VGNC Symbol;Acc:VGNC:83431]	2.275825805	0.001936151	0.007828906
ENSMMUG00000005294	casein kinase 2 beta [Source:NCBI gene;Acc:715807]	1.896266164	7.23E-07	6.76E-06
ENSMMUG00000005293	G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]	1.903122903	7.47E-06	5.61E-05
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	2.09090154	1.11E-28	1.71E-26
ENSMMUG00000005303	apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]	1.829595236	0.000886052	0.00397095
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	1.782979644	4.21E-18	2.17E-16
ENSMMUG00000025918	small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]	2.14871073	0.000611642	0.002886304
ENSMMUG00000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	1.896109003	4.35E-18	2.23E-16
ENSMMUG00000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	1.871828405	3.25E-14	1.06E-12
ENSMMUG00000008839	DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]	1.244951543	0.002746525	0.010580912
ENSMMUG00000019961	protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]	4.188593435	1.38E-06	1.20E-05
ENSMMUG00000053627		3.51163748	2.60E-08	3.25E-07
ENSMMUG00000011682	ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]	4.01209171	6.85E-09	9.46E-08
ENSMMUG00000060527		0.829007281	0.001326676	0.005634156
ENSMMUG00000023679	tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]	1.138799652	7.25E-05	0.000428113
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]	-1.25752265	1.01E-07	1.13E-06
ENSMMUG00000012129	tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]	1.271331607	2.05E-08	2.61E-07
ENSMMUG00000058580	tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]	1.242729091	2.03E-07	2.12E-06
ENSMMUG00000062264		1.345620519	0.000806003	0.003669667
ENSMMUG00000012124	ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]	1.122800062	5.00E-05	0.000307084
ENSMMUG00000012120	zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]	1.520461911	1.08E-09	1.71E-08
ENSMMUG00000055272	putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]	-1.05339398	9.08E-05	0.000523307
ENSMMUG00000056544		1.586330602	0.000245843	0.001291289
ENSMMUG00000037625		1.443131394	0.000717496	0.003303169
ENSMMUG00000053561		3.304291058	0.005739319	0.01987029
ENSMMUG00000029883	olfactory receptor, family 2, subfamily J, member 3 [Source:NCBI gene;Acc:708943]	3.586003798	0.000473225	0.002296206
ENSMMUG00000059442		2.255927858	0.002240984	0.008887251
ENSMMUG00000004617	glutathione peroxidase 6 [Source:VGNC Symbol;Acc:VGNC:73154]	0.745881144	0.012085128	0.037485015
ENSMMUG00000012396	zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]	0.763353752	0.000190409	0.001024993
ENSMMUG00000011675	zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]	0.689165469	9.31E-06	6.82E-05
ENSMMUG00000005964	CMP-N-acetylneuraminic acid hydroxylase [Source:NCBI gene;Acc:574186]	0.910767106	0.00248022	0.009696161
ENSMMUG00000049021	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.667192851	0.01024118	0.032612329
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	1.029651447	1.28E-10	2.40E-09

ENSMMUG00000051037		4.611350655	8.06E-16	3.21E-14
ENSMMUG00000054532		-		
ENSMMUG00000052442		0.747285372	0.001954141	0.007894818
ENSMMUG00000014691	inhibitor of DNA binding 4, HLH protein [Source:VGNC Symbol;Acc:VGNC:73557]	-0.77664769	0.00014627	0.000806753
		-0.74007047	7.57E-05	0.000444707
		-		
ENSMMUG00000063576	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.532910112	0.000204654	0.001093222
ENSMMUG00000052333		0.709710656	0.001454117	0.006095989
ENSMMUG00000049917	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.739435235	0.000627191	0.00294052
ENSMMUG00000019763	DEK proto-oncogene [Source:NCBI gene;Acc:712460]	0.540556566	0.000938987	0.004165636
ENSMMUG00000052891		1.205726693	0.002131595	0.008525773
		-		
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	1.504230813	5.29E-12	1.24E-10
		-		
ENSMMUG00000044473		0.636657617	0.001521987	0.006338286
ENSMMUG00000020040	phosphatase and actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:75841]	0.773249003	0.01476871	0.044384692
ENSMMUG00000058800		1.287555734	2.56E-11	5.38E-10
		-		
ENSMMUG00000016135	neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]	0.875719419	9.16E-05	0.000527582
		-		
ENSMMUG00000046520	small integral membrane protein 13 [Source:NCBI gene;Acc:703387]	0.680557578	0.007348154	0.024651476
		-		
ENSMMUG00000043161	endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]	1.266202171	3.04E-06	2.48E-05
ENSMMUG00000005532	male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]	0.611773061	0.005060959	0.017881034
ENSMMUG00000018788	transmembrane protein 14B [Source:NCBI gene;Acc:698237]	0.564885093	0.006184957	0.021191247
ENSMMUG00000018787	PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]	1.052110025	1.99E-07	2.08E-06
ENSMMUG00000061586	chromosome 4 C6orf52 homolog [Source:NCBI gene;Acc:702114]	0.884062078	1.01E-06	9.12E-06
ENSMMUG00000026665	Y RNA [Source:RFAM;Acc:RF00019]	1.120082651	0.012293353	0.038038325
		-		
ENSMMUG00000006186	transcription factor AP-2 alpha [Source:VGNC Symbol;Acc:VGNC:78320]	1.332623016	0.002053585	0.008247395
		-		
ENSMMUG00000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	1.143576056	5.45E-17	2.51E-15
		-		
ENSMMUG00000044859		1.309427395	0.009173986	0.029772462
		-		
ENSMMUG00000015577	RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]	2.015899123	2.22E-09	3.36E-08
ENSMMUG00000060973		0.986478505	4.00E-09	5.80E-08
		-		
ENSMMUG00000052268		2.938147328	0.003069546	0.011617881
		-		
ENSMMUG00000023558	exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]	1.050238042	0.014856269	0.044600613
		-		
ENSMMUG00000056560		0.878510336	0.000894424	0.004000801
ENSMMUG00000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	0.831639706	1.31E-09	2.05E-08
		-		
ENSMMUG00000062676		1.027587001	1.98E-05	0.000134638
		-		
ENSMMUG00000065031		1.047080295	2.37E-09	3.56E-08
ENSMMUG00000023139	small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]	2.507866531	1.07E-10	2.04E-09
ENSMMUG00000051503	nuclear pore associated protein 1 [Source:NCBI gene;Acc:719891]	2.717768488	1.33E-06	1.16E-05
		-		
ENSMMUG00000046479		0.587523055	0.005415772	0.018947062
		-		
ENSMMUG00000058972		2.466875527	0.014569154	0.043936183

ENSMMUG00000021656	golgin subfamily A member 8S [Source:NCBI gene;Acc:722977]	3.057333128	0.001477125	0.006179513
ENSMMUG00000054315		2.460244622	5.11E-07	4.92E-06
ENSMMUG00000055117		2.005477574	8.56E-07	7.85E-06
ENSMMUG00000063268		1.845587906	2.11E-07	2.19E-06
ENSMMUG00000009430	transient receptor potential cation channel subfamily M member 1 [Source:VGNC Symbol;Acc:VGNC:79964]	0.575206611	2.97E-08	3.66E-07
ENSMMUG00000005270	ryanodine receptor 3 [Source:NCBI gene;Acc:694996]	0.62680034	1.38E-06	1.21E-05
ENSMMUG00000014227	cholinergic receptor muscarinic 5 [Source:VGNC Symbol;Acc:VGNC:71044]	3.552823086	0.000641359	0.002990947
ENSMMUG00000002337	aquarius intron-binding spliceosomal factor [Source:VGNC Symbol;Acc:VGNC:69925]	1.261723757	8.10E-05	0.00047306
ENSMMUG00000046486	zinc finger protein 770 [Source:NCBI gene;Acc:697740]	0.805702757	0.002195281	0.008740611
ENSMMUG00000009668	transmembrane and coiled-coil domains 5A [Source:VGNC Symbol;Acc:VGNC:79725]	2.55437665	0.000378387	0.001874957
ENSMMUG00000018332	family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]	0.893513794	1.26E-05	8.92E-05
ENSMMUG00000018333	RAS guanyl releasing protein 1 [Source:VGNC Symbol;Acc:VGNC:76671]	1.580695294	0.012306805	0.038054758
ENSMMUG00000057671		2.882787043	0.007398776	0.024779803
ENSMMUG00000057460		1.011416535	0.014996253	0.044943889
ENSMMUG00000016686	BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]	0.706604398	2.46E-05	0.000162474
ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	2.743051619	8.35E-50	7.32E-47
ENSMMUG00000043229	carbohydrate sulfotransferase 14 [Source:NCBI gene;Acc:703115]	1.724796842	1.80E-05	0.000122801
ENSMMUG00000001482	coiled-coil domain containing 32 [Source:VGNC Symbol;Acc:VGNC:70891]	1.112941327	2.37E-06	1.98E-05
ENSMMUG00000001483	RNA pseudouridine synthase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77091]	0.929268003	0.003142604	0.011830534
ENSMMUG00000048910	kinetochore scaffold 1 [Source:VGNC Symbol;Acc:VGNC:84366]	0.846395348	0.000124183	0.00069518
ENSMMUG00000000306	regulator of microtubule dynamics 3 [Source:VGNC Symbol;Acc:VGNC:76821]	0.724704114	0.007000653	0.023609948
ENSMMUG00000013160	DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]	1.619175014	1.18E-05	8.46E-05
ENSMMUG00000013991	exonuclease 3'-5' domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72390]	0.821207802	2.23E-05	0.000148955
ENSMMUG00000001532	glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]	0.751054636	9.10E-08	1.03E-06
ENSMMUG00000001534	calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]	0.677222923	0.000470925	0.002286628
ENSMMUG00000063886	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.654750484	0.006090185	0.020921719
ENSMMUG00000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]	1.272323216	2.29E-23	1.97E-21
ENSMMUG00000064341	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.846895993	1.28E-05	9.05E-05
ENSMMUG00000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	-0.90147626	3.84E-09	5.57E-08
ENSMMUG00000015123	codanin 1 [Source:VGNC Symbol;Acc:VGNC:70788]	0.524458607	0.013070335	0.040097419
ENSMMUG00000010036	tau tubulin kinase 2 [Source:VGNC Symbol;Acc:VGNC:81598]	0.420864105	0.000400066	0.001976091
ENSMMUG00000022256	transglutaminase 5 [Source:VGNC Symbol;Acc:VGNC:78341]	1.137242792	5.85E-05	0.000354314
ENSMMUG00000022251	transglutaminase 7 [Source:VGNC Symbol;Acc:VGNC:79880]	-0.39580922	0.004939135	0.017547881
ENSMMUG00000055498	leucine carboxyl methyltransferase 2 [Source:NCBI gene;Acc:710047]	0.708002859	1.69E-05	0.000116216
ENSMMUG00000017067	adenosine deaminase like [Source:VGNC Symbol;Acc:VGNC:69555]	0.370039028	0.006736317	0.022806222

ENSMMUG00000017070	zinc finger and SCAN domain containing 29 [Source:VGNC Symbol;Acc:VGNC:79633]	0.702648407	1.21E-05	8.64E-05
ENSMMUG00000017076	tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]	0.701270034	0.000735649	0.003377866
ENSMMUG00000007255	microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]	1.600019639	0.000195064	0.001047914
ENSMMUG00000007860	diphosphoinositol pentakisphosphate kinase 1 [Source:VGNC Symbol;Acc:VGNC:76127]	0.736487444	0.011074253	0.034874073
ENSMMUG000000057376	inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1-like [Source:NCBI gene;Acc:717098]	0.454220629	0.002274112	0.008985595
ENSMMUG00000016742	CTD small phosphatase like 2 [Source:VGNC Symbol;Acc:VGNC:71593]	0.359195964	0.004257203	0.015470005
ENSMMUG00000014291	SPG11 vesicle trafficking associated, spatacin [Source:VGNC Symbol;Acc:VGNC:77856]	0.588404641	0.003068971	0.011617881
ENSMMUG00000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	1.478143857	1.26E-12	3.22E-11
ENSMMUG000000049265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.569569787	0.000130089	0.000725919
ENSMMUG000000062254		1.691317977	7.91E-06	5.90E-05
ENSMMUG00000012144	semaphorin 6D [Source:VGNC Symbol;Acc:VGNC:77250]	2.935675533	0.004585773	0.016471901
ENSMMUG00000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]	1.061589518	1.50E-08	1.95E-07
ENSMMUG00000009837	SECIS binding protein 2 like [Source:VGNC Symbol;Acc:VGNC:77325]	0.691325768	1.17E-06	1.04E-05
ENSMMUG00000009839	galactokinase 2 [Source:VGNC Symbol;Acc:VGNC:72870]	-0.71429227	0.002447647	0.009600938
ENSMMUG000000049831		0.693079719	0.001449245	0.006078843
ENSMMUG000000050608		1.340774246	3.73E-08	4.52E-07
ENSMMUG00000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	1.400610775	1.03E-11	2.30E-10
ENSMMUG000000057283		1.414999469	1.06E-05	7.64E-05
ENSMMUG00000002879	GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]	0.744802842	7.62E-05	0.000447801
ENSMMUG000000060278	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.824288829	4.50E-07	4.39E-06
ENSMMUG00000014884	ubiquitin specific peptidase 8 [Source:VGNC Symbol;Acc:VGNC:78748]	0.752450645	4.49E-09	6.47E-08
ENSMMUG00000008575	transient receptor potential cation channel subfamily M member 7 [Source:VGNC Symbol;Acc:VGNC:79106]	0.607431489	2.76E-09	4.09E-08
ENSMMUG00000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	2.164970145	7.92E-13	2.09E-11
ENSMMUG00000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	-0.89053191	9.02E-07	8.22E-06
ENSMMUG00000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	0.870971121	3.13E-26	3.91E-24
ENSMMUG000000029652	mitogen-activated protein kinase 6 [Source:NCBI gene;Acc:694998]	3.471262147	0.007904135	0.026246668
ENSMMUG00000017374	G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]	2.672747738	4.88E-06	3.82E-05
ENSMMUG00000007504	myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]	2.495692155	4.94E-05	0.000303695
ENSMMUG00000007509	myosin VA [Source:VGNC Symbol;Acc:VGNC:75116]	0.733884345	5.47E-05	0.000333299
ENSMMUG000000048644		1.187026205	0.008844134	0.028855581
ENSMMUG00000001423	family with sequence similarity 214 member A [Source:VGNC Symbol;Acc:VGNC:72354]	0.382460304	0.000855046	0.003849217
ENSMMUG00000010797	phosphatidylinositol glycan anchor biosynthesis class B [Source:VGNC Symbol;Acc:VGNC:75985]	0.569137772	0.004370182	0.015819226
ENSMMUG000000029638	chromosome 7 C15orf65 homolog [Source:VGNC Symbol;Acc:VGNC:70689]	0.633151998	0.013354015	0.040860431
ENSMMUG00000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	1.335026856	1.29E-10	2.41E-09
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	1.668185672	9.03E-16	3.58E-14
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	0.916162084	1.37E-08	1.79E-07

ENSMMUG00000012690	myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]	2.754359446	4.82E-05	0.000297013
ENSMMUG00000063524		0.355374692	0.00778574	0.025902595
ENSMMUG00000012933	myosin IE [Source:VGNC Symbol;Acc:VGNC:75114]	0.325900106	0.005500266	0.019196173
ENSMMUG00000018426	glucosaminyl (N-acetyl) transferase 3, mucin type [Source:VGNC Symbol;Acc:VGNC:84342]	2.187236595	0.016310421	0.048161937
ENSMMUG00000020348	BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]	2.026551306	3.92E-06	3.14E-05
ENSMMUG00000049749		0.628504177	0.001981162	0.007992473
ENSMMUG00000011503	talin 2 [Source:VGNC Symbol;Acc:VGNC:78385]	0.941995473	0.011890137	0.037019404
ENSMMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]	0.623999874	0.000129662	0.000724113
ENSMMUG00000012114	ubiquitin specific peptidase 3 [Source:VGNC Symbol;Acc:VGNC:78746]	3.405265682	0.012228379	0.037862346
ENSMMUG00000012117	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:VGNC Symbol;Acc:VGNC:73364]	0.472196869	1.03E-07	1.15E-06
ENSMMUG00000049375		0.623140245	3.99E-05	0.000251303
ENSMMUG00000018177	death associated protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:71733]	0.983140458	0.000201254	0.00107635
ENSMMUG00000013270	RNA binding protein, mRNA processing factor 2 [Source:VGNC Symbol;Acc:VGNC:76511]	1.698121893	0.001148969	0.004975908
ENSMMUG00000010949	SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]	0.869694653	9.00E-08	1.02E-06
ENSMMUG00000005749	poly(ADP-ribose) polymerase family member 16 [Source:VGNC Symbol;Acc:VGNC:84416]	-0.32698077	0.011552231	0.036160029
ENSMMUG00000015450	3-hydroxyacyl-CoA dehydratase 3 [Source:VGNC Symbol;Acc:VGNC:73225]	0.510291725	0.008813281	0.028781704
ENSMMUG00000008095	integrator complex subunit 14 [Source:VGNC Symbol;Acc:VGNC:73650]	0.521561114	9.36E-05	0.000537989
ENSMMUG00000022056	DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]	0.605178628	8.11E-05	0.000473147
ENSMMUG00000054184	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.971861569	2.39E-15	8.92E-14
ENSMMUG00000035748	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.297668232	8.70E-05	0.000503138
ENSMMUG00000008006	RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]	0.753847761	2.56E-08	3.20E-07
ENSMMUG00000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	1.112347679	1.31E-09	2.05E-08
ENSMMUG00000052828		1.071520619	0.000122634	0.00068788
ENSMMUG00000003693	DIS3 like exosome 3'-5' exoribonuclease [Source:VGNC Symbol;Acc:VGNC:71796]	3.588001302	0.000343323	0.001723744
ENSMMUG00000016840	mitogen-activated protein kinase kinase 1 [Source:VGNC Symbol;Acc:VGNC:81452]	1.032333542	0.000269236	0.001396778
ENSMMUG00000015458	IQ motif containing H [Source:VGNC Symbol;Acc:VGNC:73655]	0.489961893	0.01100927	0.034708405
ENSMMUG00000004026	integrin subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73774]	0.544086392	7.68E-06	5.75E-05
ENSMMUG00000006230	NADPH oxidase 5 [Source:VGNC Symbol;Acc:VGNC:82198]	0.309336689	0.011093313	0.034918412
ENSMMUG00000007570	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	1.180502481	1.21E-11	2.68E-10
ENSMMUG00000006490	ariadne RBR E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:84308]	0.463593351	0.015344494	0.04582109
ENSMMUG00000059258		0.703720431	6.98E-05	0.000413168
ENSMMUG00000057906		0.919647131	1.66E-15	6.33E-14
ENSMMUG00000063495		1.078052796	1.29E-16	5.62E-15
ENSMMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]	1.099284719	2.19E-07	2.27E-06
ENSMMUG00000022481	cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]	0.902496257	2.62E-11	5.46E-10
ENSMMUG00000015267	C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]	0.549587827	1.19E-07	1.31E-06
ENSMMUG00000008529	chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]	1.643787963	9.41E-07	8.56E-06
ENSMMUG00000061079	golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]	1.84759412	2.69E-29	4.55E-27
ENSMMUG00000016104	chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]	0.765347593	2.87E-06	2.35E-05
ENSMMUG00000053989		0.793607781	7.29E-07	6.81E-06
ENSMMUG00000058835		0.8763964	0.004361447	0.015799682

ENSMMUG00000050124	transmembrane protein 266 [Source:NCBI gene;Acc:707482]	0.425621955	0.009565249	0.030806955
ENSMMUG00000010171	proline-serine-threonine phosphatase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:76459]	0.560904831	7.47E-05	0.000439112
ENSMMUG00000042378	pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]	0.521727381	0.000116814	0.000657335
ENSMMUG00000054259		0.962801659	0.003828549	0.014076492
ENSMMUG00000058749	golgin subfamily A member 6C [Source:NCBI gene;Acc:716687]	3.292926282	0.004610126	0.016542425
ENSMMUG00000014207	WD repeat domain 61 [Source:VGNC Symbol;Acc:VGNC:79843]	1.095500649	0.00153006	0.006362997
ENSMMUG00000045680	iron responsive element binding protein 2 [Source:VGNC Symbol;Acc:VGNC:84360]	0.989987389	0.003848852	0.01414743
ENSMMUG00000059973		0.908658405	3.96E-07	3.92E-06
ENSMMUG00000064497		2.928431852	0.002222757	0.00883245
ENSMMUG00000056992	zinc finger AN1-type containing 6 [Source:NCBI gene;Acc:717543]	0.825754045	0.007464032	0.024968541
ENSMMUG00000009361	fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]	1.846145557	2.92E-13	8.09E-12
ENSMMUG00000054653	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.165482907	0.000996495	0.004399826
ENSMMUG00000054825		0.657032921	0.013329666	0.040803734
ENSMMUG00000009409	mesoderm development LRP chaperone [Source:VGNC Symbol;Acc:VGNC:74507]	-0.66131561	0.011118764	0.034990671
ENSMMUG00000011564	transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]	3.857483435	3.38E-05	0.000216291
ENSMMUG00000057295		0.376303555	0.008616568	0.028289755
ENSMMUG00000003002		0.791943111	0.001429081	0.006005396
ENSMMUG00000009087	HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]	1.146099393	8.65E-08	9.80E-07
ENSMMUG00000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]	0.843279542	0.000110435	0.000624447
ENSMMUG00000011328	cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]	1.059774349	0.000200684	0.00107412
ENSMMUG00000019838	phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]	0.857650399	2.08E-05	0.000140448
ENSMMUG00000056737		-1.38446522	3.12E-05	0.000201617
ENSMMUG00000049563		1.470477743	4.71E-09	6.73E-08
ENSMMUG00000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	0.742291958	5.52E-09	7.79E-08
ENSMMUG00000010432	zinc finger protein 592 [Source:VGNC Symbol;Acc:VGNC:79762]	0.369050899	0.000750397	0.003438828
ENSMMUG00000063195		0.367233175	0.005653105	0.019617297
ENSMMUG00000057531	mitochondrial ribosomal protein S11 [Source:NCBI gene;Acc:697743]	0.970633624	0.00022256	0.001180394
ENSMMUG00000063799		0.480412056	0.002126973	0.008512141
ENSMMUG00000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]	0.911269754	9.60E-08	1.08E-06
ENSMMUG00000022678	Rh family C glycoprotein [Source:VGNC Symbol;Acc:VGNC:84427]	0.970683174	0.000666443	0.00309557
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	0.96843294	1.98E-17	9.46E-16
ENSMMUG00000010586	mesoderm posterior bHLH transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:74618]	1.336902262	0.001847743	0.007521304
ENSMMUG00000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	0.936017623	9.22E-15	3.22E-13
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	1.049696574	5.84E-14	1.82E-12
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	0.766639898	1.69E-08	2.19E-07
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	2.234473045	3.27E-28	4.88E-26
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	2.320130113	3.01E-26	3.84E-24
ENSMMUG00000050794	zinc finger protein 774 [Source:NCBI gene;Acc:702985]	0.908021858	0.004367016	0.015815772

ENSMMUG00000019526	BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]	2.161261369	5.12E-12	1.20E-10
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	2.500176826	1.09E-13	3.20E-12
ENSMMUG00000005106	unc-45 myosin chaperone A [Source:VGNC Symbol;Acc:VGNC:79858]	2.782395154	0.000331722	0.001672685
ENSMMUG00000005108	RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]	2.661087734	2.79E-11	5.78E-10
ENSMMUG00000007534	protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]	2.408934717	4.63E-07	4.50E-06
ENSMMUG00000008399	synaptic vesicle glycoprotein 2B [Source:VGNC Symbol;Acc:VGNC:78140]	0.806196714	5.52E-08	6.45E-07
ENSMMUG00000063322		1.073740807	2.16E-08	2.73E-07
ENSMMUG00000065319		4.731127229	2.62E-09	3.89E-08
ENSMMUG00000060063		1.216341652	2.39E-08	3.01E-07
ENSMMUG0000006659	aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]	2.151728321	3.99E-13	1.09E-11
		-		
ENSMMUG00000003034	olfactory receptor 4K15 [Source:NCBI gene;Acc:698499]	0.976929909	0.015003317	0.044955453
ENSMMUG00000058162		2.440055661	0.007315021	0.024563825
ENSMMUG00000016255	telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]	0.545274786	0.001293155	0.005516857
ENSMMUG00000048039	apurinic/aprimidinic endodeoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:84305]	1.637884048	1.67E-05	0.000114983
ENSMMUG00000019126	purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]	2.30217164	1.25E-11	2.76E-10
		-		
ENSMMUG00000015599	probable ribonuclease 11 [Source:NCBI gene;Acc:703578]	0.290915995	0.008825734	0.028814549
		-		
ENSMMUG00000020747	NDRG family member 2 [Source:VGNC Symbol;Acc:VGNC:74953]	2.116591892	0.006747357	0.022838085
		-		
ENSMMUG00000050445	ribonuclease A family member 8 [Source:NCBI gene;Acc:716333]	3.016151794	0.003063242	0.011603417
		-		
ENSMMUG00000006457	Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]	2.822107849	1.05E-06	9.47E-06
		-		
ENSMMUG00000014809	heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]	2.494694231	0.000943271	0.004183265
		-		
ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]	2.400800485	1.81E-07	1.91E-06
		-		
ENSMMUG00000055229		2.494120032	4.20E-18	2.17E-16
		-		
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	2.344370064	1.04E-12	2.68E-11
		-		
ENSMMUG00000015002	chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]	2.114255311	8.70E-09	1.17E-07
		-		
ENSMMUG00000015004	TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]	1.006073801	0.009723047	0.031200525
		-		
ENSMMUG00000062974		0.918453646	0.00040672	0.002003314
ENSMMUG00000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	-1.52133575	1.63E-06	1.41E-05
		-		
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	1.251416493	5.26E-09	7.46E-08
		-		
ENSMMUG00000054116	T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]	1.237346776	9.37E-06	6.85E-05
		-		
ENSMMUG00000056910		1.500973075	4.02E-08	4.82E-07
ENSMMUG00000063215	T cell receptor alpha variable 29/delta variable 5 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:12127]	1.081770124	0.000706639	0.003258531
ENSMMUG00000009441	abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]	1.929994223	2.76E-05	0.00018035
		-		
ENSMMUG00000000413	solute carrier family 7 member 7 [Source:VGNC Symbol;Acc:VGNC:77631]	1.273672328	3.96E-10	6.76E-09
		-		
ENSMMUG00000014748	solute carrier family 22 member 17 [Source:VGNC Symbol;Acc:VGNC:77560]	1.661836153	0.006015275	0.020705006
		-		
ENSMMUG00000014750	embryonal Fyn-associated substrate [Source:VGNC Symbol;Acc:VGNC:72056]	0.984366232	0.004370226	0.015819226
		-		
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	0.859234922	2.76E-07	2.81E-06

ENSMMUG00000029420		1.507095626	2.34E-05	0.000155803
ENSMMUG00000014766	neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]	0.901369838	7.00E-07	6.56E-06
ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	1.228649292	8.94E-15	3.14E-13
ENSMMUG000000059196		0.352678649	0.000132107	0.000734551
ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]	-		
ENSMMUG00000012473	proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]	2.195295228	4.84E-08	5.72E-07
ENSMMUG00000012474	ring finger protein 31 [Source:NCBI gene;Acc:715239]	-		
ENSMMUG00000040817	interferon regulatory factor 9 [Source:VGNC Symbol;Acc:VGNC:84361]	2.238761797	1.58E-05	0.000109006
ENSMMUG00000012480	REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]	-		
ENSMMUG00000012481	importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]	1.869794516	4.56E-05	0.000282796
ENSMMUG00000012452	transglutaminase 1 [Source:NCBI gene;Acc:715854]	-		
ENSMMUG00000010049	NOP9 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75216]	1.563682055	0.001061256	0.004647717
ENSMMUG00000003370	nuclear factor of activated T cells 4 [Source:VGNC Symbol;Acc:VGNC:75329]	-1.59911514	8.60E-06	6.35E-05
ENSMMUG00000019691	G2/M-phase specific E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:72753]	-1.63501729	4.68E-07	4.55E-06
ENSMMUG00000003120	HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]	-		
ENSMMUG00000011779	HEAT repeat containing 5A [Source:VGNC Symbol;Acc:VGNC:84347]	2.600597073	0.000918133	0.004082111
ENSMMUG00000014839	neuronal PAS domain protein 3 [Source:VGNC Symbol;Acc:VGNC:75213]	-		
ENSMMUG00000056906		4.157192775	5.12E-06	3.99E-05
ENSMMUG00000049364	serine palmitoyltransferase small subunit A [Source:NCBI gene;Acc:717580]	-		
ENSMMUG00000012576	sorting nexin 6 [Source:NCBI gene;Acc:693626]	2.719481103	0.015830791	0.04707541
ENSMMUG0000003530	protein phosphatase 2 regulatory subunit B''gamma [Source:VGNC Symbol;Acc:VGNC:76279]	0.608264616	0.013557994	0.041367221
ENSMMUG00000056013	forkhead box A1 [Source:NCBI gene;Acc:697909]	-		
ENSMMUG00000052781		1.211124754	1.23E-06	1.09E-05
ENSMMUG00000017677	chromosome 7 C14orf28 homolog [Source:VGNC Symbol;Acc:VGNC:70581]	-		
ENSMMUG00000017678	kelch like family member 28 [Source:VGNC Symbol;Acc:VGNC:74085]	0.663318689	0.000206725	0.001103502
ENSMMUG00000008284	dynein axonemal assembly factor 2 [Source:VGNC Symbol;Acc:VGNC:71868]	-		
ENSMMUG00000003914	kelch domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74086]	0.413667877	0.014284582	0.043245399
ENSMMUG00000008214	nuclear export mediator factor [Source:VGNC Symbol;Acc:VGNC:84407]	0.762097772	6.16E-08	7.17E-07
ENSMMUG00000055903	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-		
ENSMMUG00000049543		0.582627798	0.001447039	0.00607176
ENSMMUG00000055012		-		
ENSMMUG00000059134		1.231291023	3.67E-05	0.000233487
ENSMMUG00000060227		-		
		0.325269331	0.014241111	0.043123105
		2.164862365	0.001475151	0.006173094
		-		
		0.523306387	0.000603691	0.002857089
		-		
		0.651716093	4.24E-06	3.37E-05
		-		
		1.094336594	0.000199214	0.001067066
		0.478635879	0.013350022	0.040857126
		-		
		0.839765518	0.004573252	0.016439558
		-		
		1.260794851	8.57E-05	0.000496691
		-		
		1.876292293	0.002117248	0.008482904
		1.327222186	5.41E-05	0.000330344
		1.791320279	0.001290661	0.005509443
		1.709831082	3.83E-07	3.82E-06
		-		
		1.335869528	0.015636491	0.046593819

ENSMMUG00000007464	SOS Ras/Rho guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:77838]	0.946590994	0.001692774	0.006957141
ENSMMUG00000007468	L-2-hydroxyglutarate dehydrogenase [Source:VGNC Symbol;Acc:VGNC:74090]	-0.39593095	0.002624123	0.01018209
ENSMMUG00000009577	atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]	0.464541503	0.00180443	0.007359952
ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	2.575921008	1.24E-11	2.73E-10
ENSMMUG00000018274	FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]	0.933965606	1.51E-12	3.81E-11
ENSMMUG00000000024	prostaglandin D2 receptor [Source:VGNC Symbol;Acc:VGNC:76467]	1.060676286	0.000238324	0.00125451
ENSMMUG00000000023	prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]	0.748511368	0.000762953	0.003493519
ENSMMUG00000065036		-0.91229989	0.015750178	0.046882774
ENSMMUG00000006997	thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]	0.8280213	8.18E-08	9.33E-07
ENSMMUG00000010689	fermitin family member 2 [Source:VGNC Symbol;Acc:VGNC:82144]	0.999033452	1.21E-07	1.32E-06
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	1.636282875	6.70E-26	8.10E-24
ENSMMUG000000054112		0.445331726	0.001697257	0.006973522
ENSMMUG00000003565	galectin 3 [Source:VGNC Symbol;Acc:VGNC:74255]	0.797376929	0.000903548	0.00403775
ENSMMUG00000003567	DLG associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71850]	0.616558049	0.002833316	0.010867501
ENSMMUG00000049334		-0.51743583	0.011555394	0.036161858
ENSMMUG00000023041	TATA-box binding protein like 2 [Source:VGNC Symbol;Acc:VGNC:78175]	0.752422446	0.002033571	0.008185064
ENSMMUG00000061576		1.96730946	1.07E-07	1.18E-06
ENSMMUG00000053489		0.690595645	0.003778354	0.013910174
ENSMMUG00000018278	exocyst complex component 5 [Source:VGNC Symbol;Acc:VGNC:72260]	1.308342713	0.008383242	0.027621757
ENSMMUG00000018279	adaptor related protein complex 5 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69868]	0.929565018	4.01E-10	6.85E-09
ENSMMUG00000002121	armadillo like helical domain containing 4 [Source:VGNC Symbol;Acc:VGNC:82106]	1.157016398	2.60E-06	2.15E-05
ENSMMUG00000003508	actin related protein 10 [Source:VGNC Symbol;Acc:VGNC:69449]	0.313384674	0.006473073	0.022048071
ENSMMUG00000011966	reticulon 1 [Source:NCBI gene;Acc:619184]	1.054930054	0.014777982	0.044394096
ENSMMUG00000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	1.06805519	3.86E-07	3.83E-06
ENSMMUG00000002540	dehydrogenase/reductase 7 [Source:VGNC Symbol;Acc:VGNC:71690]	0.639063396	1.11E-08	1.47E-07
ENSMMUG00000001640	SIX homeobox 4 [Source:NCBI gene;Acc:703798]	0.909162523	0.000543915	0.00259963
ENSMMUG00000001642	MNAT1 component of CDK activating kinase [Source:VGNC Symbol;Acc:VGNC:74905]	0.683283039	0.006597176	0.022432638
ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.373170327	3.39E-11	6.92E-10
ENSMMUG00000008203	ras homolog family member J [Source:VGNC Symbol;Acc:VGNC:76885]	-0.55976431	0.005135754	0.018095144
ENSMMUG000000054689		0.786193362	0.005045856	0.017844595
ENSMMUG00000001008	spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]	0.928587631	1.54E-06	1.34E-05
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	1.264760184	3.11E-16	1.31E-14
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	1.383957556	3.48E-14	1.12E-12
ENSMMUG00000056063		2.546949416	1.50E-05	0.000103921
ENSMMUG00000053575	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.366691565	0.004438661	0.016021453
ENSMMUG00000004339	RAB15, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81519]	0.680069299	2.06E-05	0.000139259
ENSMMUG00000013848	fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]	1.158367662	1.33E-05	9.35E-05
ENSMMUG00000013907	ribosomal protein S27a [Source:NCBI gene;Acc:718909]	-1.33684349	0.003014646	0.011453366

ENSMMUG00000006768	coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]	-	1.647732064	5.87E-05	0.000354914
ENSMMUG00000009520	gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]	-	1.543696724	7.69E-06	5.76E-05
ENSMMUG00000021419	eukaryotic translation initiation factor 2 subunit alpha [Source:VGNC Symbol;Acc:VGNC:72187]	-	0.647647811	0.014635092	0.044078156
ENSMMUG00000021420	pleckstrin 2 [Source:VGNC Symbol;Acc:VGNC:76071]	-	0.839177924	3.08E-06	2.51E-05
ENSMMUG00000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	-	1.736210811	9.09E-10	1.46E-08
ENSMMUG00000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	-	1.203780127	2.48E-09	3.70E-08
ENSMMUG00000015871	zinc finger FYVE-type containing 26 [Source:VGNC Symbol;Acc:VGNC:79283]	-	1.36643708	0.001952751	0.007891479
ENSMMUG00000050511		-	1.154693228	0.000363003	0.001806383
ENSMMUG00000015873	RAD51 paralog B [Source:VGNC Symbol;Acc:VGNC:76647]	-	1.282027707	0.000106678	0.000604668
ENSMMUG00000021572	solute carrier family 39 member 9 [Source:VGNC Symbol;Acc:VGNC:77523]	-	1.194402219	6.29E-09	8.74E-08
ENSMMUG00000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	-	1.535425332	7.69E-17	3.42E-15
ENSMMUG00000022407	serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]	-	1.197236422	4.28E-10	7.27E-09
ENSMMUG00000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	-	1.457730224	1.51E-14	5.14E-13
ENSMMUG00000053103	disintegrin and metalloproteinase domain-containing protein 20-like [Source:NCBI gene;Acc:713573]	-	0.782268681	0.000607981	0.002873516
ENSMMUG00000019470	pecanex 1 [Source:VGNC Symbol;Acc:VGNC:75655]	-	0.433672697	0.009388611	0.030349583
ENSMMUG00000001820	regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]	-	3.322802265	0.00129508	0.005523391
ENSMMUG00000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]	-	-1.62284063	5.31E-07	5.10E-06
ENSMMUG00000010173	presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]	-	1.372629852	2.49E-09	3.71E-08
ENSMMUG00000056580	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.394891216	0.011213456	0.035241214
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]	-	1.303652777	6.40E-13	1.70E-11
ENSMMUG00000053481		-	1.712927584	1.20E-13	3.52E-12
ENSMMUG00000049894		-	2.0810702	3.34E-06	2.71E-05
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]	-	1.574786906	5.23E-16	2.15E-14
ENSMMUG00000004910	dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]	-	1.253346309	1.36E-05	9.56E-05
ENSMMUG00000004913	mitotic deacetylase associated SANT domain protein [Source:VGNC Symbol;Acc:VGNC:72073]	-	0.81878945	3.65E-06	2.94E-05
ENSMMUG00000056376		-	2.122393632	6.91E-13	1.83E-11
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]	-	0.820739395	2.33E-12	5.72E-11
ENSMMUG00000015168	transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]	-	1.062130066	4.80E-05	0.000296044
ENSMMUG00000040100	Fos proto-oncogene, AP-1 transcription factor subunit [Source:VGNC Symbol;Acc:VGNC:84340]	-	0.627770545	6.18E-06	4.75E-05
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]	-	2.035099119	1.38E-11	3.01E-10
ENSMMUG00000012065	tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]	-	1.630503763	3.29E-15	1.22E-13
ENSMMUG00000008792	G-patch domain containing 2 like [Source:VGNC Symbol;Acc:VGNC:72973]	-	0.781354243	0.005485249	0.019153298
ENSMMUG00000016773	estrogen related receptor beta [Source:VGNC Symbol;Acc:VGNC:72434]	-	0.66939667	0.000429859	0.002109139
ENSMMUG00000057021	CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]	-	0.691849719	0.013358256	0.04086449
ENSMMUG00000007561	zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]	-	0.883520481	0.000560787	0.002672074
ENSMMUG00000023626	alkB homolog 1, histone H2A dioxygenase [Source:VGNC Symbol;Acc:VGNC:69630]	-	1.554099419	0.001736883	0.007107182
ENSMMUG00000019710	centrosomal protein 128 [Source:VGNC Symbol;Acc:VGNC:71062]	-	0.701680522	0.016091192	0.047715541
ENSMMUG00000019713	thyroid stimulating hormone receptor [Source:VGNC Symbol;Acc:VGNC:78662]	-	1.018774178	0.001037518	0.004553712

ENSMMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]	0.852885203	1.66E-07	1.76E-06
ENSMMUG00000004603	zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]	0.915595439	5.31E-09	7.52E-08
ENSMMUG00000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]	1.086895057	4.38E-11	8.75E-10
ENSMMUG00000010442	NRDE-2, necessary for RNA interference, domain containing [Source:VGNC Symbol;Acc:VGNC:75440]	0.365917768	0.007563015	0.025269518
ENSMMUG00000008964	D-glutamate cyclase [Source:VGNC Symbol;Acc:VGNC:71685]	1.138643205	0.003376551	0.01260584
ENSMMUG00000054889	G protein-coupled receptor 68 [Source:NCBI gene;Acc:696529]	0.84006262	0.014904412	0.044716424
ENSMMUG00000018319	thyroid hormone receptor interactor 11 [Source:VGNC Symbol;Acc:VGNC:78647]	0.666955108	3.47E-05	0.000221633
ENSMMUG00000022428	NADH:ubiquinone oxidoreductase subunit B1 [Source:NCBI gene;Acc:697745]	0.498703345	0.013126533	0.040243412
ENSMMUG00000013966	legumain [Source:VGNC Symbol;Acc:VGNC:74274]	0.699059228	0.003086508	0.011666336
ENSMMUG00000009974	inositol-tetrakisphosphate 1-kinase [Source:VGNC Symbol;Acc:VGNC:73802]	1.36336468	0.002813397	0.010808841
ENSMMUG00000044581	modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]	1.347033351	8.96E-06	6.59E-05
ENSMMUG00000061833	transmembrane protein 251 [Source:NCBI gene;Acc:708131]	1.606148734	8.00E-09	1.08E-07
ENSMMUG00000053729		0.573824467	0.003813319	0.014031533
ENSMMUG00000012400	ankyrin repeat and SOCS box containing 2 [Source:VGNC Symbol;Acc:VGNC:69840]	1.001867897	0.00584728	0.020196237
ENSMMUG00000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]	1.954236235	5.35E-08	6.26E-07
ENSMMUG00000020586	serpin family A member 12 [Source:VGNC Symbol;Acc:VGNC:77266]	3.218723953	0.002985367	0.011358225
ENSMMUG00000000681	calmin [Source:VGNC Symbol;Acc:VGNC:71232]	0.892466355	2.12E-09	3.21E-08
ENSMMUG00000003658	autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]	0.747249579	0.014029013	0.042572788
ENSMMUG00000051277		1.852066668	0.009883722	0.031650192
ENSMMUG00000003261	BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]	1.344124646	3.06E-10	5.34E-09
ENSMMUG00000051552		1.015977038	0.000608363	0.002873838
ENSMMUG00000061892		0.866403201	4.10E-06	3.28E-05
ENSMMUG00000049437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.085281157	4.48E-05	0.000278201
ENSMMUG00000029197	YY1 transcription factor [Source:NCBI gene;Acc:717370]	0.979113811	1.09E-06	9.76E-06
ENSMMUG00000051100	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.359264513	0.013878019	0.042203986
ENSMMUG00000013865	tryptophanyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:78779]	1.161032532	0.015576317	0.046424375
ENSMMUG00000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	1.819739724	6.91E-12	1.59E-10
ENSMMUG00000000186	protein phosphatase 2 regulatory subunit B'gamma [Source:NCBI gene;Acc:718894]	0.29260927	0.000814389	0.003698998
ENSMMUG00000005780	dynein cytoplasmic 1 heavy chain 1 [Source:VGNC Symbol;Acc:VGNC:71951]	0.342528767	8.64E-05	0.000500249
ENSMMUG00000007140	MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]	2.098772223	1.64E-07	1.75E-06
ENSMMUG00000003483	cyclin dependent kinase 2 interacting protein [Source:VGNC Symbol;Acc:VGNC:71326]	0.677927683	0.000174501	0.000945892
ENSMMUG00000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	1.566154102	5.59E-10	9.29E-09
ENSMMUG00000057818		1.800463997	0.0145751	0.043944663
ENSMMUG00000005845	REST corepressor 1 [Source:VGNC Symbol;Acc:VGNC:76752]	0.58359076	0.00468878	0.016794577
ENSMMUG00000011751		1.198521841	0.004325108	0.015692363
ENSMMUG00000029186	exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]	4.04266091	1.07E-05	7.70E-05
ENSMMUG00000050495		2.874216724	4.00E-08	4.80E-07

ENSMMUG00000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	2.090216266	3.53E-29	5.89E-27
ENSMMUG00000003641	microtubule affinity regulating kinase 3 [Source:VGNC Symbol;Acc:VGNC:74659]	0.5171844	0.005118637	0.01804844
ENSMMUG00000029181	X-ray repair cross complementing 3 [Source:NCBI gene;Acc:695788]	0.329800129	0.004388357	0.015868472
ENSMMUG00000018121	zinc finger FYVE-type containing 21 [Source:VGNC Symbol;Acc:VGNC:79282]	0.323041817	0.001719516	0.007046397
		-		
ENSMMUG00000052518	SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]	1.561961114	0.003961144	0.014503164
ENSMMUG00000001047	zinc finger and BTB domain containing 42 [Source:VGNC Symbol;Acc:VGNC:79925]	1.725990908	0.002270782	0.008974964
ENSMMUG00000064694	AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]	3.968491585	7.63E-06	5.72E-05
ENSMMUG00000001273	clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]	2.577567035	2.24E-23	1.94E-21
ENSMMUG00000054161	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.116394319	0.002083463	0.008352318
		-		
ENSMMUG00000065019	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.635916371	0.000370682	0.001840025
		-		
ENSMMUG00000015202		1.537980523	0.016297547	0.048134057
		-		
ENSMMUG00000040771		2.108657162	5.09E-07	4.91E-06
		-		
ENSMMUG00000059525		1.906748668	8.99E-08	1.02E-06
		-		
ENSMMUG00000055207		5.861240959	1.74E-11	3.74E-10
		-		
ENSMMUG00000060892		3.133005114	1.04E-24	1.08E-22
		-		
ENSMMUG00000064429	immunoglobulin heavy variable 1-45 [Source:HGNC Symbol;Acc:HGNC:5553]	3.721425151	0.002179844	0.008689014
		-		
ENSMMUG00000052929		3.801810627	5.71E-05	0.000345901
		-		
ENSMMUG00000052535		3.509745449	2.21E-05	0.000148395
		-		
ENSMMUG00000004955	short stature homeobox [Source:NCBI gene;Acc:114674875]	1.090897431	0.005451295	0.01904897
ENSMMUG00000063346		3.130441535	0.000173926	0.000943507
ENSMMUG00000038067		1.3058952	0.000313308	0.001592433
ENSMMUG00000053333	acetylserotonin O-methyltransferase like [Source:NCBI gene;Acc:106995142]	3.291204291	0.004121605	0.015029746
ENSMMUG00000004985	arylsulfatase L [Source:VGNC Symbol;Acc:VGNC:81361]	-1.54814015	0.000811604	0.003691573
		-		
ENSMMUG00000000443	arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]	0.668239973	0.003113327	0.011739225
		-		
ENSMMUG00000017378	steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]	1.664668772	0.011244272	0.035313277
		-		
ENSMMUG00000010252	FERM and PDZ domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72802]	1.145025728	2.22E-05	0.000148425
ENSMMUG00000003482	glycine receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:73075]	0.970103534	0.000236394	0.001245757
		-		
ENSMMUG00000015737	phosphatidylinositol glycan anchor biosynthesis class A [Source:VGNC Symbol;Acc:VGNC:75984]	0.974216401	7.76E-07	7.20E-06
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	2.220762928	5.77E-13	1.55E-11
ENSMMUG00000058700	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.055121696	1.26E-05	8.93E-05
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.413445735	8.46E-16	3.36E-14
ENSMMUG00000016237	taxilin gamma [Source:NCBI gene;Acc:713769]	2.34918888	0.005920317	0.020398183
ENSMMUG00000012894	NHS actin remodeling regulator [Source:VGNC Symbol;Acc:VGNC:75348]	-1.00099735	0.004697468	0.016817102
		-		
ENSMMUG00000004744	SH3 domain containing kinase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:77227]	0.310492087	0.016551001	0.048758908
ENSMMUG00000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	1.189180022	7.56E-10	1.23E-08
		-		
ENSMMUG00000061261	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.607869843	8.14E-05	0.000475068
		-		
ENSMMUG00000042317	putative transcription factor SPT20 homolog-like 2 [Source:NCBI gene;Acc:100429227]	0.764629556	0.015077195	0.045128604

ENSMMUG00000012819	pyruvate dehydrogenase kinase 3 [Source:VGNC Symbol;Acc:VGNC:75934]	0.932977112	0.006381593	0.021789404
ENSMMUG00000012775	nuclear receptor subfamily 0 group B member 1 [Source:NCBI gene;Acc:574154]	1.497991889	0.007962547	0.026415612
ENSMMUG00000013220	cytochrome b-245 beta chain [Source:VGNC Symbol;Acc:VGNC:71576]	0.747941634	0.017023171	0.049992865
ENSMMUG00000013493	ornithine carbamoyltransferase [Source:VGNC Symbol;Acc:VGNC:75723]	3.389416543	0.010178495	0.032468843
ENSMMUG00000005264	mediator complex subunit 14 [Source:VGNC Symbol;Acc:VGNC:74561]	0.559942718	0.000160974	0.000879711
ENSMMUG00000063721		0.639456842	4.41E-06	3.50E-05
ENSMMUG00000057909		1.370528041	0.000534258	0.00255609
ENSMMUG00000057804		1.893538888	0.001404179	0.005921994
ENSMMUG00000003505	FUN14 domain containing 1 [Source:NCBI gene;Acc:709370]	2.435052738	0.001175956	0.005078667
ENSMMUG00000003897	solute carrier family 9 member A7 [Source:NCBI gene;Acc:710906]	0.675684802	2.71E-06	2.23E-05
ENSMMUG00000049666		0.621546391	0.000108997	0.000617064
ENSMMUG00000023018	RP2 activator of ARL3 GTPase [Source:VGNC Symbol;Acc:VGNC:76720]	0.553498026	0.016540366	0.048748801
ENSMMUG00000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	1.391915539	1.33E-19	7.84E-18
ENSMMUG00000019546	regucalcin [Source:VGNC Symbol;Acc:VGNC:76912]	1.130295304	0.012392552	0.038269271
ENSMMUG00000014002	cyclin dependent kinase 16 [Source:VGNC Symbol;Acc:VGNC:71160]	1.411495232	0.000553162	0.002641127
ENSMMUG00000016608	ubiquitin specific peptidase 11 [Source:VGNC Symbol;Acc:VGNC:78734]	1.880539525	0.001851057	0.007532609
ENSMMUG00000008566	zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]	1.005412569	6.99E-12	1.60E-10
ENSMMUG00000010404	zinc finger protein 41 [Source:VGNC Symbol;Acc:VGNC:78900]	0.514232352	0.012816047	0.039403515
ENSMMUG00000063703		0.860313413	0.003496895	0.012989923
ENSMMUG00000019768	suppressor of variegation 3-9 homolog 1 [Source:VGNC Symbol;Acc:VGNC:78061]	0.978724197	0.000846965	0.003821424
ENSMMUG00000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	0.770938835	1.13E-11	2.51E-10
ENSMMUG00000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	1.120949018	1.10E-09	1.74E-08
ENSMMUG00000004559	potassium voltage-gated channel subfamily D member 1 [Source:VGNC Symbol;Acc:VGNC:73975]	-1.39936358	0.006899875	0.02330931
ENSMMUG00000023025	synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]	0.672183309	2.45E-06	2.04E-05
ENSMMUG00000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	1.047628175	4.97E-14	1.57E-12
ENSMMUG00000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	1.108317206	3.33E-14	1.08E-12
ENSMMUG00000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	1.66220133	2.39E-20	1.56E-18
ENSMMUG00000060311	G antigen 10-like [Source:NCBI gene;Acc:114674954]	0.574024029	0.000185069	0.000997993
ENSMMUG00000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.471193904	2.03E-14	6.77E-13
ENSMMUG00000026584	Y RNA [Source:RFAM;Acc:RF00019]	1.740221976	0.013624565	0.041541659
ENSMMUG00000023060	A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]	2.233026506	3.36E-10	5.78E-09
ENSMMUG00000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	2.127824913	7.69E-24	7.09E-22
ENSMMUG00000049267		4.269726381	1.93E-20	1.27E-18
ENSMMUG00000020202	melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]	0.707688765	0.012027048	0.037348646
ENSMMUG00000046218	X antigen family member 5 [Source:NCBI gene;Acc:114669729]	1.042925986	0.002081334	0.008346167
ENSMMUG00000002593	TSPY like 2 [Source:VGNC Symbol;Acc:VGNC:79433]	0.330915008	0.003766142	0.013876147
ENSMMUG00000053262		-0.76917227	7.72E-05	0.000452849
ENSMMUG00000020553	lysine demethylase 5C [Source:VGNC Symbol;Acc:VGNC:73816]	0.546691935	0.001963513	0.007930397

ENSMMUG00000020555	IQ motif and Sec7 domain ArfGEF 2 [Source:VGNC Symbol;Acc:VGNC:73676]	-	0.610432651	9.83E-06	7.14E-05
ENSMMUG00000047741	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.067754225	8.57E-06	6.33E-05
ENSMMUG00000008422	trophinin [Source:NCBI gene;Acc:704512]	-	0.779469959	4.01E-06	3.21E-05
ENSMMUG00000059922	family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]	-	2.812155374	1.26E-05	8.92E-05
ENSMMUG00000042087	ubiquilin 2 [Source:NCBI gene;Acc:707967]	-	0.479024767	0.010213971	0.032544994
ENSMMUG00000051670		-	1.147760987	2.46E-05	0.000162657
ENSMMUG00000054377		-	1.004860611	7.95E-14	2.40E-12
ENSMMUG00000063913	endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]	-	3.213383545	8.09E-05	0.000472387
ENSMMUG00000059335		-	5.10274641	2.16E-07	2.24E-06
ENSMMUG0000004309	APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]	-	4.981150741	4.88E-07	4.74E-06
ENSMMUG0000004274	myotubularin related protein 8 [Source:VGNC Symbol;Acc:VGNC:74974]	-	4.053482651	0.000366015	0.001818789
ENSMMUG00000065001		-	-0.45746248	0.002465403	0.009659545
ENSMMUG00000047336	praja ring finger ubiquitin ligase 1 [Source:NCBI gene;Acc:695038]	-	0.492256653	0.00225502	0.008932808
ENSMMUG00000054817	immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]	-	0.863447547	0.006615844	0.022490661
ENSMMUG00000061295	PDZ domain containing 11 [Source:NCBI gene;Acc:695458]	-	-0.80060935	0.001036621	0.004551201
ENSMMUG00000013940	kinesin family member 4A [Source:NCBI gene;Acc:695574]	-	1.992480607	3.02E-06	2.47E-05
ENSMMUG00000013943	glycerophosphodiester phosphodiesterase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72787]	-	2.027098339	1.36E-06	1.19E-05
ENSMMUG00000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	-	2.742547773	7.91E-09	1.07E-07
ENSMMUG00000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	-	2.079161262	1.88E-25	2.13E-23
ENSMMUG00000032427	neuroligin 3 [Source:NCBI gene;Acc:574216]	-	1.241340669	3.09E-17	1.45E-15
ENSMMUG00000000669	gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]	-	1.651705463	0.000822003	0.003727992
ENSMMUG00000000667	zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]	-	1.359823204	3.16E-05	0.000204032
ENSMMUG00000056450		-	1.940860182	0.003740581	0.013807361
ENSMMUG00000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]	-	1.134172705	4.99E-07	4.81E-06
ENSMMUG00000003296	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 1 [Source:VGNC Symbol;Acc:VGNC:71227]	-	0.429949667	0.006653293	0.022585118
ENSMMUG00000013449	caudal type homeobox 4 [Source:VGNC Symbol;Acc:VGNC:70997]	-	1.394081485	0.013515178	0.041281494
ENSMMUG00000063858		-	0.766509685	1.82E-06	1.55E-05
ENSMMUG00000037903	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.589926318	0.001490159	0.00622105
ENSMMUG00000053505	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.268521725	0.004295745	0.015601977
ENSMMUG00000017660		-	1.320594891	4.41E-11	8.80E-10
ENSMMUG00000011440	neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]	-	0.671235949	0.004133939	0.015068943
ENSMMUG00000015619	ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]	-	1.238976217	1.09E-06	9.76E-06
ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	-	1.220924916	2.67E-14	8.76E-13
ENSMMUG00000014407	magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]	-	0.672840671	2.63E-05	0.000172295

ENSMMUG00000015861	cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]	0.690009971	0.000855978	0.003852176
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	1.38178785	3.35E-10	5.78E-09
ENSMMUG000000052073		1.402815673	7.01E-18	3.49E-16
ENSMMUG00000000448		-	-	-
ENSMMUG00000011078	protocadherin 19 [Source:VGNC Symbol;Acc:VGNC:75601]	1.412756497	0.007230821	0.024321852
		1.489242012	0.006506883	0.022147092
ENSMMUG00000008212	tenomodulin [Source:VGNC Symbol;Acc:VGNC:79087]	-	-	-
		1.138596942	2.45E-07	2.52E-06
ENSMMUG00000013008	cleavage stimulation factor subunit 2 [Source:VGNC Symbol;Acc:VGNC:71536]	-	-	-
		1.289189261	6.19E-05	0.000372469
ENSMMUG00000004178	NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]	-	-	-
		1.220016464	3.03E-08	3.72E-07
ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]	-	-	-
ENSMMUG00000059432		0.806252025	4.86E-05	0.000298871
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	2.175059023	0.000352393	0.00175983
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.297701527	1.54E-10	2.85E-09
		1.3331495	3.80E-11	7.65E-10
ENSMMUG00000022293	FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]	-	-	-
		0.926333429	1.97E-13	5.56E-12
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	-	-	-
ENSMMUG00000007688	angiominin [Source:VGNC Symbol;Acc:VGNC:69627]	0.792158993	5.23E-08	6.12E-07
ENSMMUG00000055906	angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]	3.83074445	0.000386234	0.001911137
ENSMMUG00000026243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.786946679	5.94E-05	0.000358585
ENSMMUG00000008818	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 [Source:VGNC Symbol;Acc:VGNC:77646]	2.123701382	0.009744868	0.031256241
		-	-	-
		1.187610728	0.001969468	0.00795216
ENSMMUG00000008781	BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]	-	-	-
		0.916444396	6.91E-08	7.97E-07
ENSMMUG00000008785	E74 like ETS transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72208]	-	-	-
		0.569217148	0.002233052	0.008860807
ENSMMUG00000004954	apoptosis inducing factor mitochondria associated 1 [Source:VGNC Symbol;Acc:VGNC:69820]	-	-	-
		0.569935626	0.003137794	0.011815597
ENSMMUG00000003479	FERM domain containing 7 [Source:VGNC Symbol;Acc:VGNC:72927]	-	-	-
		1.374348578	0.0003047	0.001554881
ENSMMUG00000048745	RAP2C, member of RAS oncogene family [Source:NCBI gene;Acc:705986]	-	-	-
		0.881841853	0.000324621	0.001642195
ENSMMUG00000025616		-	-	-
		3.687691891	0.000118767	0.000667256
ENSMMUG00000003456	glypican 4 [Source:VGNC Symbol;Acc:VGNC:73118]	-0.60879174	1.27E-07	1.38E-06
ENSMMUG00000009622	glypican 3 [Source:VGNC Symbol;Acc:VGNC:73117]	1.517150838	2.01E-06	1.69E-05
ENSMMUG00000032341	coiled-coil domain containing 160 [Source:VGNC Symbol;Acc:VGNC:70926]	0.666564248	7.07E-09	9.74E-08
ENSMMUG00000016610	CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]	-1.09477524	3.04E-05	0.00019656
ENSMMUG00000016929	proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]	2.866971063	3.60E-11	7.29E-10
ENSMMUG00000040974	fetal and adult testis expressed 1 [Source:NCBI gene;Acc:704368]	2.998941049	0.001202171	0.005179121
ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	1.063866647	2.16E-11	4.57E-10
ENSMMUG00000062628		1.114209053	2.51E-06	2.08E-05
ENSMMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]	1.049658633	1.70E-10	3.12E-09
ENSMMUG00000039292		1.570819151	2.08E-10	3.73E-09
ENSMMUG00000062063	melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]	1.199823185	7.79E-09	1.06E-07
ENSMMUG00000037641	chondrosarcoma-associated gene 2/3 protein [Source:NCBI gene;Acc:106992305]	2.182714001	0.002546324	0.009924539
ENSMMUG00000049656	melanoma-associated antigen 2 [Source:NCBI gene;Acc:706218]	1.584305022	0.01177025	0.036686866
ENSMMUG00000058013	melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]	1.829920686	7.73E-14	2.35E-12
ENSMMUG00000040071		2.120284537	1.49E-05	0.000103549
ENSMMUG00000020743	centrin 2 [Source:NCBI gene;Acc:693376]	1.599700714	0.004481226	0.016145998

ENSMMUG00000013176	NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]	1.916086156	5.52E-06	4.28E-05
ENSMMUG00000064249		-		
ENSMMUG00000055393		1.127475667	0.004467703	0.016101413
		1.447659108	0.01491368	0.044734659
		-		
ENSMMUG00000061278		0.745838483	0.006102013	0.020952136
ENSMMUG00000010137	microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]	1.68303935	3.97E-05	0.000250207
ENSMMUG00000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	2.041992965	6.28E-15	2.24E-13
		-		
ENSMMUG00000049842		4.111663206	5.44E-06	4.22E-05
ENSMMUG00000029034	defensin beta 136 [Source:VGNC Symbol;Acc:VGNC:71826]	1.427116423	3.97E-07	3.92E-06
ENSMMUG00000050140	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.126991658	0.004069701	0.01485409
ENSMMUG00000063525		2.535115444	4.20E-15	1.53E-13
ENSMMUG00000054960		1.597267896	2.98E-07	3.01E-06
ENSMMUG00000027220	microRNA 598 [Source:HGNC Symbol;Acc:HGNC:32854]	2.866025006	0.005121756	0.018054897
ENSMMUG00000010180	PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	1.673469807	6.89E-08	7.95E-07
		-		
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]	2.747450647	8.33E-07	7.68E-06
ENSMMUG00000022303	solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]	-0.7968745	2.58E-09	3.83E-08
ENSMMUG00000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	1.953790404	5.08E-16	2.10E-14
ENSMMUG00000005920	N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]	3.485585252	1.92E-07	2.01E-06
ENSMMUG00000011774	integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	1.036464767	9.29E-14	2.77E-12
ENSMMUG00000064162		0.725759776	0.000622949	0.002926504
		-		
ENSMMUG00000002032	exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]	1.335650739	6.56E-07	6.18E-06
		-		
ENSMMUG00000063764		1.726651052	0.001974806	0.007969124
		-		
ENSMMUG00000013029	surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]	1.306842631	3.61E-05	0.000229716
		-		
ENSMMUG00000013031	bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]	0.749725621	0.000249204	0.001305413
		-		
ENSMMUG00000013032	phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]	0.899976052	0.000240729	0.001265746
		-		
ENSMMUG00000023226	RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]	0.950486339	1.81E-09	2.77E-08
		-		
ENSMMUG00000052651	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.131602312	2.01E-06	1.69E-05
		-		
ENSMMUG00000014438	piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]	0.713816615	3.31E-07	3.33E-06
ENSMMUG00000018345	phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	1.780140716	2.09E-17	9.93E-16
ENSMMUG00000050868		1.433849985	0.002974586	0.011322645
ENSMMUG00000007540	Rho related BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76772]	0.777379198	0.001124739	0.004881526
ENSMMUG00000048076	TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650]	0.68465832	0.001117623	0.004861176
ENSMMUG00000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	1.565827229	6.84E-10	1.12E-08
ENSMMUG00000046186	stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]	2.026201073	0.009191106	0.029821119
ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	2.073799822	1.79E-35	5.22E-33
ENSMMUG00000056605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.230333617	1.16E-05	8.28E-05
		-		
ENSMMUG00000041905	protein phosphatase 2 regulatory subunit Balpha [Source:VGNC Symbol;Acc:VGNC:84103]	1.336650998	0.008763697	0.02866651
ENSMMUG00000059181		1.034190847	0.004957677	0.017601029
		-		
ENSMMUG00000016018	establishment of sister chromatid cohesion N-acetyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:72374]	3.652419854	7.96E-06	5.94E-05
		-		
ENSMMUG00000016019	PDZ binding kinase [Source:VGNC Symbol;Acc:VGNC:75643]	2.389663997	0.001291024	0.005509443

ENSMMUG00000022044	scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]	-	0.710421697	8.30E-05	0.00048243
ENSMMUG00000005067	elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]	-	1.738962009	9.13E-08	1.03E-06
ENSMMUG00000014981	homeobox containing 1 [Source:VGNC Symbol;Acc:VGNC:73443]	-	0.712904474	3.65E-05	0.000231822
ENSMMUG00000020821	testis expressed 15, meiosis and synapsis associated [Source:VGNC Symbol;Acc:VGNC:78318]	-	1.600773273	3.66E-20	2.27E-18
ENSMMUG00000061408		-	3.931403197	2.39E-07	2.46E-06
ENSMMUG00000063345		-	4.220459247	6.01E-09	8.39E-08
ENSMMUG00000057375		-	3.056040829	0.002736567	0.010556968
ENSMMUG00000034978	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.955013542	0.006911767	0.02333824
ENSMMUG00000001635	zinc finger protein 703 [Source:VGNC Symbol;Acc:VGNC:79552]	-	0.94119476	5.74E-06	4.44E-05
ENSMMUG00000061014		-	2.925881722	0.009044962	0.029415006
ENSMMUG00000013675	ASH2 like, histone lysine methyltransferase complex subunit [Source:VGNC Symbol;Acc:VGNC:70032]	-	0.303709411	0.00930042	0.030106137
ENSMMUG00000051162		-	3.938904977	7.76E-05	0.00045501
ENSMMUG00000003591	pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]	-	1.174791638	0.000271418	0.001407061
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	-	2.15637861	1.88E-10	3.42E-09
ENSMMUG00000019306	indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]	-	2.271782868	0.001511	0.006300549
ENSMMUG00000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]	-	1.167984171	2.73E-08	3.39E-07
ENSMMUG00000058320	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	0.471809923	0.008650478	0.028388873
ENSMMUG00000019082	secreted frizzled related protein 1 [Source:VGNC Symbol;Acc:VGNC:77185]	-	0.441083605	0.004015269	0.014682169
ENSMMUG00000014721	glycerol-3-phosphate acyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:84002]	-	-0.87378501	0.00145585	0.006099608
ENSMMUG00000057151	Y RNA [Source:RFAM;Acc:RF00019]	-	0.757051143	0.007403929	0.02479114
ENSMMUG00000014431	adaptor related protein complex 3 subunit mu 2 [Source:VGNC Symbol;Acc:VGNC:69971]	-	0.302236761	0.013704031	0.041740146
ENSMMUG00000014432	plasminogen activator, tissue type [Source:VGNC Symbol;Acc:VGNC:76161]	-	0.462398712	4.29E-05	0.00026815
ENSMMUG00000020185	voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]	-	1.879057813	2.64E-06	2.18E-05
ENSMMUG00000020186	solute carrier family 20 member 2 [Source:VGNC Symbol;Acc:VGNC:77416]	-	1.162495656	0.002218734	0.008818964
ENSMMUG00000053488	small integral membrane protein 19 [Source:NCBI gene;Acc:705371]	-	0.619581326	4.59E-09	6.59E-08
ENSMMUG00000015347	protein kinase, DNA-activated, catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76418]	-	0.936776636	6.90E-06	5.22E-05
ENSMMUG00000002781	peroxidase like [Source:VGNC Symbol;Acc:VGNC:84107]	-	0.709960298	8.96E-07	8.18E-06
ENSMMUG00000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	-	1.694202396	2.43E-19	1.41E-17
ENSMMUG00000025039	Small nucleolar RNA SNORA73 family [Source:RFAM;Acc:RF00045]	-	2.969527152	0.009598883	0.0308595
ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	-	0.981463735	3.51E-05	0.00022364
ENSMMUG00000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	-	0.757878718	4.20E-11	8.43E-10
ENSMMUG00000055121	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.787399982	0.00580069	0.020059946
ENSMMUG00000061268	PLAG1 zinc finger [Source:NCBI gene;Acc:696149]	-	1.110471627	0.001793489	0.007317458
ENSMMUG00000046464	coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]	-	1.208479231	9.15E-07	8.33E-06
ENSMMUG00000061068		-	0.678237981	0.010805327	0.034154776
ENSMMUG00000014810	short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]	-	0.774847006	0.000329626	0.001663913
ENSMMUG00000052791		-	0.893975974	0.000246567	0.001294014

ENSMMUG0000006775	proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]	-	0.962631318	8.52E-06	6.30E-05
ENSMMUG0000006543	cytochrome P450, family 7, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:698127]	-	3.577685478	0.006322203	0.021612932
ENSMMUG00000017038	RAB2A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81529]	-	0.534288828	0.000404015	0.001992087
ENSMMUG00000059575		-	2.278959347	4.78E-40	2.23E-37
ENSMMUG00000038661		-	2.354319158	1.82E-17	8.82E-16
ENSMMUG00000049866		-	0.451679122	0.00991741	0.031744315
ENSMMUG00000004411	25-hydroxycholesterol 7-alpha-hydroxylase [Source:NCBI gene;Acc:710188]	-	0.830786265	5.12E-06	3.99E-05
ENSMMUG00000014424	ADP ribosylation factor guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:69834]	-	2.387888757	0.00070124	0.003238964
ENSMMUG00000012513	lactamase beta 2 [Source:VGNC Symbol;Acc:VGNC:74072]	-	1.095622676	0.005306351	0.018612045
ENSMMUG00000045333	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.657993425	0.000178497	0.000965687
ENSMMUG00000007576	EYA transcriptional coactivator and phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:72453]	-	0.601366252	3.21E-07	3.23E-06
ENSMMUG00000019414	zinc finger homeobox 4 [Source:VGNC Symbol;Acc:VGNC:79902]	-	0.723700251	0.013927257	0.042328116
ENSMMUG00000046641		-	0.390066284	0.005633065	0.019562275
ENSMMUG00000000507	stathmin 2 [Source:VGNC Symbol;Acc:VGNC:78038]	-	-0.84651362	0.015246305	0.045547281
ENSMMUG00000007115	RALY RNA binding protein like [Source:VGNC Symbol;Acc:VGNC:82217]	-	1.387441284	0.000380818	0.001886334
ENSMMUG00000063555		-	-1.95480032	6.95E-05	0.000412022
ENSMMUG00000028701		-	0.923110392	0.001642263	0.006770566
ENSMMUG00000061720		-	0.739661249	0.014667845	0.044157835
ENSMMUG00000020010	cadherin 17 [Source:VGNC Symbol;Acc:VGNC:70810]	-	3.540340706	0.008269465	0.027311047
ENSMMUG00000021112	epithelial splicing regulatory protein 1 [Source:VGNC Symbol;Acc:VGNC:72358]	-	0.472187686	0.00800323	0.026531748
ENSMMUG00000057219	tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]	-	1.936058312	0.004344099	0.015749043
ENSMMUG00000062721	TSPY like 5 [Source:NCBI gene;Acc:702081]	-	2.360390702	0.008055326	0.026685528
ENSMMUG00000055454		-	0.324529846	0.014128974	0.042848313
ENSMMUG00000060329		-	0.555533318	0.000253677	0.001327357
ENSMMUG00000061917		-	0.693814954	7.20E-06	5.43E-05
ENSMMUG00000014210	metadherin [Source:VGNC Symbol;Acc:VGNC:74859]	-	0.70637674	4.29E-08	5.12E-07
ENSMMUG00000008926	lysosomal protein transmembrane 4 beta [Source:VGNC Symbol;Acc:VGNC:84010]	-	0.445647312	0.001339801	0.005679572
ENSMMUG00000060771		-	0.578563801	0.000695927	0.00321654
ENSMMUG00000020072	matrilin 2 [Source:VGNC Symbol;Acc:VGNC:74665]	-	0.492794228	0.002672533	0.010332204
ENSMMUG00000054671	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.023501236	0.011286409	0.035422854
ENSMMUG00000058389		-	0.634930056	0.00126884	0.005424677
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	-	1.371310775	4.15E-15	1.51E-13
ENSMMUG00000022186	vacuolar protein sorting 13 homolog B [Source:VGNC Symbol;Acc:VGNC:79339]	-	0.463679844	0.002152969	0.00859655
ENSMMUG00000004386	sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]	-	1.395886326	0.002985554	0.011358225
ENSMMUG00000061687		-	1.083814258	0.003371795	0.012597256

ENSMMUG0000004387	ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]	-	1.362938199	1.49E-06	1.29E-05
ENSMMUG00000051088		-	1.132676517	0.001425331	0.005998151
ENSMMUG00000009958	ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]	-	-1.26075431	0.000615289	0.002898208
ENSMMUG00000034608	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	0.897541251	0.000486296	0.002354739
ENSMMUG00000051999		-	2.113714784	1.48E-07	1.58E-06
ENSMMUG00000001338	antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]	-	2.784397902	0.000207972	0.001109315
ENSMMUG00000054357		-	3.141840379	0.00082367	0.003733136
ENSMMUG00000056520		-	2.356760351	0.014713911	0.044268006
ENSMMUG00000010744		-	1.460796978	0.011228663	0.035281098
ENSMMUG00000054660	R-spondin 2 [Source:NCBI gene;Acc:697376]	-	1.015688073	4.12E-06	3.29E-05
ENSMMUG00000011359	eukaryotic translation initiation factor 3 subunit E [Source:VGNC Symbol;Acc:VGNC:83997]	-	1.053295582	4.32E-05	0.000270006
ENSMMUG00000062333		-	0.351041391	0.001101839	0.004799967
ENSMMUG00000003435	transcriptional repressor GATA binding 1 [Source:VGNC Symbol;Acc:VGNC:78656]	-	0.607533036	1.25E-06	1.10E-05
ENSMMUG00000001087		-	0.628521758	0.012024846	0.037348646
ENSMMUG00000024448		-	-1.61636002	0.013627015	0.041541659
ENSMMUG00000004903	ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:VGNC Symbol;Acc:VGNC:72223]	-	1.182952254	9.70E-10	1.55E-08
ENSMMUG00000014702	TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]	-	0.933637079	4.35E-07	4.26E-06
ENSMMUG00000058797		-	0.666614872	0.000215892	0.001147196
ENSMMUG00000021157	TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]	-	4.295139078	1.98E-13	5.58E-12
ENSMMUG00000020467	ATPase family AAA domain containing 2 [Source:VGNC Symbol;Acc:VGNC:70154]	-	-0.54869817	4.20E-05	0.000263077
ENSMMUG00000028923	WDYHV motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79503]	-	0.267289668	0.008350782	0.027527742
ENSMMUG00000023778	F-box protein 32 [Source:VGNC Symbol;Acc:VGNC:72517]	-	1.148218086	0.000326204	0.001648016
ENSMMUG00000016375	fer-1 like family member 6 [Source:VGNC Symbol;Acc:VGNC:72585]	-	0.357930752	0.007076058	0.023852778
ENSMMUG00000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	-	1.772566213	1.42E-06	1.24E-05
ENSMMUG00000058106	otoconin 90 [Source:NCBI gene;Acc:100429699]	-	0.726158622	4.79E-06	3.76E-05
ENSMMUG00000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]	-	1.193771393	4.80E-11	9.51E-10
ENSMMUG00000055934		-	0.583852409	0.003485447	0.012954259
ENSMMUG00000059464		-	-2.95280864	0.004314554	0.015662176
ENSMMUG00000048066	trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]	-	1.281566241	1.55E-10	2.86E-09
ENSMMUG00000053837		-	3.96284617	0.004580158	0.016455947
ENSMMUG00000001432	t-SNARE domain containing 1 [Source:NCBI gene;Acc:701269]	-	0.504408183	0.000435613	0.00213438
ENSMMUG00000019877	adhesion G protein-coupled receptor B1 [Source:VGNC Symbol;Acc:VGNC:69597]	-	0.712229879	0.009344372	0.030220508
ENSMMUG00000062642		-	-0.66182404	0.002816476	0.010817705
ENSMMUG00000022452	Jrk helix-turn-helix protein [Source:VGNC Symbol;Acc:VGNC:73957]	-	0.48471078	6.01E-05	0.00036246
ENSMMUG00000000959	cytochrome P450, family 11, subfamily B, polypeptide 2 [Source:NCBI gene;Acc:695914]	-	0.724121032	4.37E-07	4.27E-06
ENSMMUG00000064147	lymphocyte antigen 6 family member L [Source:NCBI gene;Acc:106999990]	-	0.352527412	0.00399425	0.014612931
ENSMMUG00000022933	DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]	-	0.970614155	3.90E-12	9.26E-11
ENSMMUG00000059932	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.573061118	2.65E-05	0.000173492
ENSMMUG00000010939	rhopilin Rho GTPase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76779]	-	0.381730353	0.000245163	0.001288578

ENSMMUG00000058733	zinc finger CCCH-type containing 3 [Source:NCBI gene;Acc:708584]	0.469679424	5.03E-06	3.93E-05
ENSMMUG00000001187	mitogen-activated protein kinase 15 [Source:VGNC Symbol;Acc:VGNC:74570]	1.491033961	0.002070398	0.008309441
		-		
ENSMMUG00000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	1.252625482	4.99E-18	2.54E-16
		-		
ENSMMUG00000000388	plectin [Source:VGNC Symbol;Acc:VGNC:76173]	1.081269707	3.02E-08	3.71E-07
		-		
ENSMMUG00000050907		0.868505839	1.01E-06	9.10E-06
ENSMMUG00000053106		1.341628967	0.000128212	0.000716587
ENSMMUG00000064914		0.990345855	0.016549643	0.048758908
ENSMMUG00000023282	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]	1.588621391	2.18E-11	4.60E-10
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	1.772292807	1.79E-13	5.08E-12
ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]	-1.79208206	1.09E-05	7.83E-05
		-		
ENSMMUG00000015143	F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]	1.698535677	1.87E-06	1.58E-05
ENSMMUG00000056045		-1.67688357	6.10E-10	1.01E-08
		-		
ENSMMUG00000015151	interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]	1.296066625	7.65E-05	0.000449085
ENSMMUG00000054646		-2.28536603	0.01569093	0.046727815
ENSMMUG00000061189		0.452007547	1.12E-06	1.00E-05
ENSMMUG00000052242		0.610003674	0.000213379	0.001134703
		-		
ENSMMUG00000064980		1.418403699	0.001362204	0.005762348
ENSMMUG00000037449	CUGBP Elav-like family member 2 [Source:NCBI gene;Acc:714291]	0.483565701	0.009647024	0.030977837
		-		
ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]	1.123932809	8.74E-10	1.41E-08
		-		
ENSMMUG00000017164	FERM domain containing 4A [Source:VGNC Symbol;Acc:VGNC:72786]	0.607603877	0.005725136	0.019828002
		-		
ENSMMUG00000017170	cerebral dopamine neurotrophic factor [Source:VGNC Symbol;Acc:VGNC:71094]	0.464872428	0.00015089	0.000830754
		-		
ENSMMUG00000017173	heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]	1.417278473	0.000385121	0.0019063
		-		
ENSMMUG00000017174	suppressor of variegation 3-9 homolog 2 [Source:NCBI gene;Acc:697378]	2.672635309	0.010162608	0.032427163
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	1.376662388	1.02E-15	4.01E-14
ENSMMUG00000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.520428002	2.90E-07	2.94E-06
ENSMMUG00000016069	cubilin [Source:VGNC Symbol;Acc:VGNC:82132]	1.603071544	1.96E-05	0.000133356
		-		
ENSMMUG00000010589	nebulette [Source:VGNC Symbol;Acc:VGNC:75195]	0.621390795	2.30E-05	0.000152968
ENSMMUG00000053765		0.593880583	0.001478701	0.006182416
ENSMMUG00000056500		0.506699427	0.001437965	0.0060373
ENSMMUG00000002930	G protein-coupled receptor 158 [Source:NCBI gene;Acc:707065]	0.655572673	0.000845661	0.003817378
ENSMMUG00000037243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.396314648	4.71E-07	4.58E-06
		-		
ENSMMUG00000016410	acyl-CoA binding domain containing 5 [Source:VGNC Symbol;Acc:VGNC:69509]	0.441124776	0.016343888	0.048240441
ENSMMUG00000046971	RAB18, member RAS oncogene family [Source:NCBI gene;Acc:708843]	-0.87283961	0.013048373	0.040047567
ENSMMUG00000059681		1.352128441	0.001017508	0.004478503
		-		
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]	1.074248857	3.88E-05	0.000244553
		-		
ENSMMUG00000041067	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.205761758	0.00018487	0.000997472
		-		
ENSMMUG00000040958	lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]	0.963021109	1.75E-06	1.50E-05
ENSMMUG00000044214		-1.08726101	2.20E-07	2.27E-06

ENSMMUG00000015058	kinesin family member 5B [Source:VGNC Symbol;Acc:VGNC:74020]	-0.70375123	0.014484698	0.043719097
ENSMMUG00000043648		1.813328352	0.001307701	0.005565369
ENSMMUG00000061710		0.456447689	8.62E-06	6.36E-05
ENSMMUG00000057199		1.489197855	4.50E-05	0.000279159
ENSMMUG0000006713	cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]	1.203160245	1.41E-09	2.18E-08
ENSMMUG00000054392	zinc finger protein 239 [Source:NCBI gene;Acc:717737]	0.899425156	0.004340937	0.015741648
ENSMMUG00000064634		0.656017762	4.44E-06	3.52E-05
ENSMMUG00000064724		-1.55032748	0.006625593	0.022518268
ENSMMUG00000013836	WDFY family member 4 [Source:NCBI gene;Acc:719472]	2.339491848	0.006135393	0.021061595
ENSMMUG00000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.257773017	2.44E-08	3.06E-07
ENSMMUG00000017380	neuregulin 3 [Source:NCBI gene;Acc:699268]	2.268157789	0.000964218	0.004268067
ENSMMUG00000055918		2.962997136	5.18E-05	0.000317737
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	1.574957942	5.58E-19	3.14E-17
ENSMMUG00000051972	zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]	2.323661069	9.60E-05	0.00054987
ENSMMUG00000055601		0.794895375	3.63E-11	7.33E-10
ENSMMUG00000053900		1.198018434	0.008753829	0.028652171
ENSMMUG00000005514	RNA polymerase III subunit A [Source:VGNC Symbol;Acc:VGNC:76138]	0.843743055	4.19E-05	0.00026281
ENSMMUG00000009128	discs large MAGUK scaffold protein 5 [Source:VGNC Symbol;Acc:VGNC:71921]	0.722478477	2.20E-09	3.32E-08
ENSMMUG00000050271		1.165868977	2.33E-05	0.00015475
ENSMMUG00000053916		0.801041173	8.19E-06	6.08E-05
ENSMMUG00000060115		0.621529782	0.00172352	0.007060744
ENSMMUG00000020823	vinculin [Source:NCBI gene;Acc:721921]	0.834330858	1.29E-05	9.10E-05
ENSMMUG00000021393	calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]	1.581208763	1.89E-10	3.43E-09
ENSMMUG00000061526	synaptopodin 2 like [Source:NCBI gene;Acc:714736]	1.110323356	3.86E-07	3.83E-06
ENSMMUG00000013696	myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]	1.026182047	2.25E-05	0.000150043
ENSMMUG00000001821	ubiquitin specific peptidase 54 [Source:NCBI gene;Acc:706859]	0.549242959	0.014686676	0.044203877
ENSMMUG00000011282	DnaJ heat shock protein family (Hsp40) member C9 [Source:NCBI gene;Acc:707599]	3.488505867	0.013550086	0.041360085
ENSMMUG00000011276	nudix hydrolase 13 [Source:VGNC Symbol;Acc:VGNC:75435]	0.414410523	0.000432418	0.002120952
ENSMMUG00000011274	prolyl 4-hydroxylase subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:75741]	-0.77795695	1.29E-06	1.13E-05
ENSMMUG00000016652	cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]	0.776288803	2.22E-05	0.000148799
ENSMMUG00000023198	tet methylcytosine dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:79811]	0.32940432	0.006977832	0.023544307
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	0.739090381	1.82E-06	1.54E-05
ENSMMUG00000019703	RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]	0.600633362	2.74E-08	3.41E-07
ENSMMUG00000009792	heterogeneous nuclear ribonucleoprotein H3 [Source:VGNC Symbol;Acc:VGNC:73497]	0.627613211	0.001540917	0.006400558
ENSMMUG00000061385		2.092769924	0.00810139	0.026819121
ENSMMUG00000016902	catenin alpha 3 [Source:VGNC Symbol;Acc:VGNC:82131]	0.569291398	0.004819625	0.01720173
ENSMMUG00000053199		1.056984595	9.31E-11	1.78E-09
ENSMMUG00000059754		1.091451317	1.09E-05	7.83E-05
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	1.031096575	1.74E-11	3.73E-10
ENSMMUG00000007077	APOBEC1 complementation factor [Source:VGNC Symbol;Acc:VGNC:69523]	0.820571884	1.33E-07	1.44E-06
ENSMMUG00000007078	N-acylsphingosine amidohydrolase 2 [Source:NCBI gene;Acc:703913]	-0.71758555	2.42E-09	3.63E-08

ENSMMUG0000006411	3'-phosphoadenosine 5'-phosphosulfate synthase 2 [Source:VGNC Symbol;Acc:VGNC:75758]	0.657864534	0.000705063	0.003254478
ENSMMUG0000000470	ankyrin repeat domain 22 [Source:VGNC Symbol;Acc:VGNC:69728]	1.206028492	0.009313194	0.03014053
ENSMMUG00000061761	interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]	-1.7012908	1.79E-18	9.75E-17
ENSMMUG00000058942		1.917513602	5.71E-17	2.61E-15
ENSMMUG00000059038	5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]	1.278739585	6.85E-06	5.18E-05
ENSMMUG0000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	2.643431309	5.33E-19	3.01E-17
ENSMMUG00000058603		3.345069261	7.48E-09	1.02E-07
ENSMMUG00000007478	tankyrase 2 [Source:VGNC Symbol;Acc:VGNC:78983]	0.591602103	1.46E-05	0.000101335
ENSMMUG00000059608	fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]	0.880811826	6.03E-05	0.000363244
ENSMMUG00000017627	B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	1.501067038	8.39E-30	1.47E-27
ENSMMUG00000004816	membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]	1.159886868	9.52E-10	1.52E-08
ENSMMUG00000058935	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.727172388	0.000775303	0.003544854
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	1.90092291	2.63E-07	2.69E-06
ENSMMUG00000052637	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.361758837	1.50E-05	0.000104404
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	1.891937994	1.30E-06	1.14E-05
ENSMMUG00000050975		1.508140696	6.24E-07	5.90E-06
ENSMMUG00000004818	sorbin and SH3 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77702]	0.323935253	0.004208297	0.015312131
ENSMMUG00000003103	tectonic family member 3 [Source:VGNC Symbol;Acc:VGNC:79438]	0.556411269	0.00222772	0.008845527
ENSMMUG00000001518	zinc finger protein 518A [Source:VGNC Symbol;Acc:VGNC:79767]	0.881938378	9.14E-15	3.20E-13
ENSMMUG00000008687	B cell linker [Source:VGNC Symbol;Acc:VGNC:70306]	0.506355263	0.000104189	0.000592714
ENSMMUG00000001876	phosphoinositide-3-kinase adaptor protein 1 [Source:VGNC Symbol;Acc:VGNC:75891]	0.694555842	0.000416252	0.002046669
ENSMMUG00000010427	ligand dependent nuclear receptor corepressor [Source:NCBI gene;Acc:705646]	0.427784799	0.002849474	0.010914552
ENSMMUG00000059655		1.123034139	0.016473575	0.048592541
ENSMMUG00000015503	zinc finger FYVE-type containing 27 [Source:VGNC Symbol;Acc:VGNC:79623]	0.594048049	1.74E-06	1.49E-05
ENSMMUG00000018154	cartilage acidic protein 1 [Source:VGNC Symbol;Acc:VGNC:71408]	0.516916317	0.001781707	0.007271501
ENSMMUG00000052648		0.73823792	0.003122857	0.011771994
ENSMMUG00000020603	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]	0.669702366	4.35E-05	0.000271331
ENSMMUG00000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.858062735	2.53E-05	0.000166815
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.186004774	3.74E-11	7.54E-10
ENSMMUG00000049770	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.340024285	0.000106321	0.000602885
ENSMMUG00000020605	heparanase 2 (inactive) [Source:NCBI gene;Acc:708795]	0.718307485	0.000334469	0.001685931
ENSMMUG00000060230	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.147700983	3.12E-06	2.54E-05
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	0.877162571	4.95E-07	4.78E-06
ENSMMUG00000023761	ectonucleoside triphosphate diphosphohydrolase 7 [Source:VGNC Symbol;Acc:VGNC:72071]	0.632613968	0.002067503	0.0083002
ENSMMUG00000063121		1.321618486	0.009613358	0.030890955
ENSMMUG00000052430		-1.13830928	0.00311158	0.011735794
ENSMMUG00000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	1.435857534	8.69E-11	1.67E-09
ENSMMUG00000006233	adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]	1.076103825	0.003776142	0.013909334

ENSMMUG00000051414	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.209980656	0.005971484	0.020562919
ENSMMUG00000014350	MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]	1.133018996	4.95E-09	7.04E-08
ENSMMUG00000007775	survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]	0.915820112	0.000814555	0.003698998
ENSMMUG00000057793	dual specificity phosphatase 5 [Source:NCBI gene;Acc:698178]	3.867924939	3.12E-05	0.000201717
ENSMMUG00000007982	structural maintenance of chromosomes 3 [Source:VGNC Symbol;Acc:VGNC:77769]	1.745604371	0.00012247	0.000687233
ENSMMUG00000019883	RNA binding motif protein 20 [Source:NCBI gene;Acc:698677]	1.675100246	0.00028923	0.001485666
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	4.034603702	7.08E-08	8.14E-07
ENSMMUG00000056056		4.813750694	1.17E-05	8.40E-05
ENSMMUG00000017206	SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]	3.547713829	2.72E-06	2.24E-05
ENSMMUG00000053789		0.679156348	0.003453871	0.012847119
ENSMMUG00000055239		0.827722222	4.89E-09	6.97E-08
ENSMMUG00000022514	coiled-coil domain containing 186 [Source:VGNC Symbol;Acc:VGNC:70847]	0.806522862	1.71E-10	3.13E-09
ENSMMUG00000022524	actin binding LIM protein 1 [Source:VGNC Symbol;Acc:VGNC:69587]	0.399213386	0.007313758	0.024563825
ENSMMUG00000058240		1.099046005	0.000105913	0.000601062
ENSMMUG00000015414	family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]	0.675068561	4.82E-05	0.000296993
ENSMMUG00000001902	TruB pseudouridine synthase family member 1 [Source:VGNC Symbol;Acc:VGNC:79005]	0.745962152	0.00925503	0.029985047
ENSMMUG00000020080	GDNF family receptor alpha 1 [Source:VGNC Symbol;Acc:VGNC:72917]	2.120800736	0.005683384	0.019697998
ENSMMUG00000053348	PDZ domain containing 8 [Source:NCBI gene;Acc:709084]	0.368987666	0.016518895	0.048715976
ENSMMUG00000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]	2.13702036	1.82E-27	2.53E-25
ENSMMUG00000054942		1.512797962	1.83E-07	1.93E-06
ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]	1.667570859	3.46E-18	1.84E-16
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]	1.828219256	1.08E-08	1.43E-07
ENSMMUG00000009561	SEC23 interacting protein [Source:VGNC Symbol;Acc:VGNC:77255]	0.971224548	0.003075133	0.011632747
ENSMMUG00000008724	phospholipid phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:76097]	0.488442376	0.003749788	0.013830426
ENSMMUG00000064321		1.443023542	2.32E-07	2.40E-06
ENSMMUG00000064557		1.802624055	4.57E-32	1.05E-29
ENSMMUG00000052711		0.824664433	1.05E-05	7.60E-05
ENSMMUG00000061101	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.932126978	0.003895093	0.014294919
ENSMMUG00000020346	carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]	0.808880993	8.61E-06	6.36E-05
ENSMMUG00000058933		-1.70523343	0.000400686	0.00197846
ENSMMUG00000008539	uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]	0.978638075	8.88E-08	1.00E-06
ENSMMUG00000008541	BRCA2 and CDKN1A interacting protein [Source:NCBI gene;Acc:699437]	0.528125284	0.008801755	0.028764161
ENSMMUG00000008542	DEAH-box helicase 32 (putative) [Source:NCBI gene;Acc:695919]	-0.51279368	0.011063905	0.034849311
ENSMMUG00000035166	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	1.951536004	0.000160321	0.000876826
ENSMMUG00000044121	marker of proliferation Ki-67 [Source:NCBI gene;Acc:697883]	0.603478685	0.012014522	0.037340347

ENSMMUG00000013653	lysine demethylase 5A [Source:VGNC Symbol;Acc:VGNC:82169]	0.4686305	0.000103942	0.00059155
ENSMMUG00000007411	integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]	1.351592715	1.15E-11	2.56E-10
ENSMMUG00000007424	nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]	-1.3476957	1.31E-11	2.87E-10
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]	1.304211829	5.07E-17	2.35E-15
ENSMMUG00000061935		3.564096401	1.24E-36	4.22E-34
ENSMMUG00000015189	RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]	0.726812866	0.008661993	0.028413363
ENSMMUG00000020811	dual specificity tyrosine phosphorylation regulated kinase 4 [Source:NCBI gene;Acc:710999]	0.650864546	0.002498854	0.009755409
ENSMMUG00000020812	A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]	-1.71026284	6.64E-06	5.04E-05
ENSMMUG00000020813	NADH:ubiquinone oxidoreductase subunit A9 [Source:VGNC Symbol;Acc:VGNC:81480]	0.936056247	0.000156878	0.000860009
ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	3.651060262	2.08E-07	2.17E-06
ENSMMUG00000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.704724179	5.17E-09	7.34E-08
ENSMMUG00000061974		4.404511776	0.00061608	0.002900065
ENSMMUG00000004470	CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]	2.284554791	0.000100852	0.000574896
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	3.154916496	8.19E-94	1.15E-89
ENSMMUG00000053013		1.58873179	3.45E-10	5.92E-09
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	1.925373142	1.06E-13	3.14E-12
ENSMMUG00000018685	chromodomain helicase DNA binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71029]	1.094541341	3.58E-09	5.22E-08
ENSMMUG00000017619	lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]	0.749010111	1.53E-05	0.000106251
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	1.526339451	2.24E-10	3.99E-09
ENSMMUG00000050979	PILR alpha associated neural protein [Source:NCBI gene;Acc:713548]	-1.99964264	0.00084903	0.00382828
ENSMMUG00000010203	protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]	0.530372856	0.008686645	0.028474246
ENSMMUG00000012786	complement C1s [Source:VGNC Symbol;Acc:VGNC:70297]	0.596609878	4.57E-06	3.61E-05
ENSMMUG00000006470	complement C1r subcomponent [Source:NCBI gene;Acc:722133]	0.934470673	9.21E-14	2.75E-12
ENSMMUG00000022109	CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]	0.909344869	2.10E-05	0.000141564
ENSMMUG00000057570		2.500147458	8.41E-22	6.30E-20
ENSMMUG00000057785		5.708652634	1.47E-06	1.28E-05
ENSMMUG00000061774	taste 2 receptor member 10 [Source:NCBI gene;Acc:717960]	3.833969552	6.46E-05	0.000385998
ENSMMUG00000050862		0.717711964	0.00364674	0.013500064
ENSMMUG00000018298	killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]	2.61367791	0.000651664	0.003032952
ENSMMUG00000005832	C-type lectin domain family 1 member A [Source:VGNC Symbol;Acc:VGNC:71335]	1.367373151	0.013161072	0.040314048
ENSMMUG00000015305	C-type lectin domain family 2 member A [Source:VGNC Symbol;Acc:VGNC:71329]	-1.57148119	0.004977747	0.017658219
ENSMMUG00000045446		2.769804937	0.000203961	0.001089997
ENSMMUG00000032892	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.450904243	0.000555163	0.002649777
ENSMMUG00000044047	killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]	0.869791357	0.003727717	0.013767126
ENSMMUG00000003238	pregnancy zone protein [Source:NCBI gene;Acc:100430319]	0.593765894	0.002830346	0.01085908
ENSMMUG00000022680	alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]	1.371792299	0.000345671	0.001732434
ENSMMUG00000022676	ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]	3.376052783	0.001111599	0.004836474

ENSMMUG00000060675		0.881345672	2.12E-08	2.69E-07
ENSMMUG00000021005	taste receptor type 2 member 50 [Source:NCBI gene;Acc:693513]	0.780433294	0.015477268	0.046168418
ENSMMUG00000056428	taste receptor type 2 member 20 [Source:NCBI gene;Acc:693643]	1.159605574	0.007332586	0.024616914
ENSMMUG00000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	1.291877195	3.81E-10	6.52E-09
ENSMMUG00000054225	taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]	1.805192582	2.54E-05	0.000167261
ENSMMUG00000042870	Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]	0.901592372	0.003038699	0.011528553
		-		
ENSMMUG00000023317	LDL receptor related protein 6 [Source:VGNC Symbol;Acc:VGNC:74446]	0.770162299	0.010207228	0.032537587
ENSMMUG00000018030	endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]	1.055681844	0.005257721	0.018473823
ENSMMUG00000053781	Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]	2.046813044	3.35E-05	0.000215018
		-		
ENSMMUG00000020443	solute carrier organic anion transporter family member 1B3 [Source:NCBI gene;Acc:574354]	0.376419762	0.016274471	0.048116574
ENSMMUG00000002679	lactate dehydrogenase B [Source:NCBI gene;Acc:706110]	2.222356079	0.008172934	0.027030437
		-		
ENSMMUG00000049682	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.723128941	4.25E-06	3.38E-05
		-		
ENSMMUG00000048030	ferritin, heavy polypeptide 1-like [Source:NCBI gene;Acc:707011]	2.910901733	0.001982489	0.007995525
		-		
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	3.735700537	2.42E-08	3.04E-07
		-		
ENSMMUG00000057276		3.086464997	7.88E-07	7.30E-06
ENSMMUG00000060493		0.491978499	4.79E-05	0.000295697
ENSMMUG00000012223	branched chain amino acid transaminase 1 [Source:VGNC Symbol;Acc:VGNC:70236]	0.379761126	0.004198449	0.015280263
		-		
ENSMMUG00000053657		2.881801224	0.000349772	0.001747365
ENSMMUG00000018630	sarcospan [Source:VGNC Symbol;Acc:VGNC:77887]	0.455390496	0.000336479	0.001695454
ENSMMUG00000060495		0.682202413	4.29E-05	0.000268371
ENSMMUG00000007050		0.89855232	0.0037487	0.013830049
ENSMMUG00000050627		0.289039193	0.012127472	0.037591947
ENSMMUG00000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	1.573375872	5.52E-13	1.49E-11
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	1.398860896	3.11E-14	1.01E-12
		-		
ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]	1.445926081	1.29E-06	1.14E-05
		-		
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	1.294099219	1.96E-07	2.05E-06
ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]	1.105598536	7.70E-07	7.15E-06
ENSMMUG00000053437		0.63073586	4.63E-06	3.65E-05
ENSMMUG00000011802	coiled-coil domain containing 91 [Source:VGNC Symbol;Acc:VGNC:70852]	0.704513567	0.000259272	0.001353098
		-		
ENSMMUG00000015810	fatty acyl-CoA reductase 2 [Source:VGNC Symbol;Acc:VGNC:81403]	0.766039798	0.000326245	0.001648016
		-		
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	1.413465933	3.96E-30	7.12E-28
		-		
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	4.898290254	1.82E-14	6.07E-13
		-		
ENSMMUG000000039300		3.171330144	6.98E-08	8.05E-07
		-		
ENSMMUG00000003221	DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]	1.537125005	1.81E-06	1.54E-05
ENSMMUG000000063112		1.254600186	0.002667868	0.010320416
		-		
ENSMMUG00000013655	dynamitin 1 like [Source:VGNC Symbol;Acc:VGNC:71956]	1.305236169	0.010821567	0.034186084
		-		
ENSMMUG00000013666	copine 8 [Source:NCBI gene;Acc:114669741]	2.645146384	0.005902789	0.020347789

ENSMMUG00000021163	contactin 1 [Source:VGNC Symbol;Acc:VGNC:71283]	0.277025609	0.012127645	0.037591947
ENSMMUG00000056303		-2.36852091	0.000102648	0.000584898
ENSMMUG00000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	0.897359453	8.19E-12	1.86E-10
ENSMMUG00000060215	Y RNA [Source:RFAM;Acc:RF00019]	0.987507961	1.81E-10	3.31E-09
ENSMMUG00000052030	developing brain homeobox 2 [Source:NCBI gene;Acc:701170]	0.763193572	1.46E-07	1.57E-06
ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]	1.217921453	1.32E-09	2.05E-08
ENSMMUG00000037874	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.073765388	0.006760948	0.022878566
ENSMMUG00000023791	SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]	2.174103403	0.000287866	0.001479747
ENSMMUG00000022359	solute carrier family 38 member 2 [Source:VGNC Symbol;Acc:VGNC:77469]	1.109783119	4.54E-07	4.43E-06
ENSMMUG00000064730		2.740620536	4.51E-23	3.75E-21
ENSMMUG00000012331	solute carrier family 38 member 4 [Source:VGNC Symbol;Acc:VGNC:77484]	0.535791458	0.003612877	0.01338884
ENSMMUG00000007482	RNA polymerase II associated protein 3 [Source:VGNC Symbol;Acc:VGNC:76834]	0.608675501	0.001507384	0.006289215
ENSMMUG00000049514	solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]	0.865555158	3.97E-06	3.18E-05
ENSMMUG00000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	0.931070811	8.01E-09	1.08E-07
ENSMMUG00000006727	vitamin D receptor [Source:VGNC Symbol;Acc:VGNC:78764]	0.532925531	3.18E-05	0.000204814
ENSMMUG00000020125	SUMO specific peptidase 1 [Source:NCBI gene;Acc:707603]	1.641051246	0.001615384	0.006676255
ENSMMUG00000055133		1.272286573	0.013123769	0.040243412
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	1.726819211	2.36E-09	3.54E-08
ENSMMUG00000003877	KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]	0.897489919	0.002931377	0.011194634
ENSMMUG00000012769	limb development membrane protein 1 like [Source:VGNC Symbol;Acc:VGNC:74310]	0.504439719	0.013808983	0.042023301
ENSMMUG00000021081	tubulin alpha 1b [Source:NCBI gene;Acc:709643]	0.705698161	0.000666949	0.003096896
ENSMMUG00000009788	tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]	1.015324816	0.000185109	0.000997993
ENSMMUG00000007544	trophinin associated protein [Source:VGNC Symbol;Acc:VGNC:78650]	0.696140602	0.000505302	0.002435835
ENSMMUG00000007548	DnaJ heat shock protein family (Hsp40) member C22 [Source:NCBI gene;Acc:710205]	1.290872451	0.000496679	0.002396742
ENSMMUG00000064430		0.68289196	4.66E-05	0.000288566
ENSMMUG00000003762	spermatogenesis associated serine rich 2 [Source:VGNC Symbol;Acc:VGNC:77958]	0.463186127	0.005339737	0.018701083
ENSMMUG00000049374		0.59855341	0.000570967	0.002715835
ENSMMUG00000005960	transmembrane BAX inhibitor motif containing 6 [Source:NCBI gene;Acc:677702]	0.372340141	1.29E-06	1.13E-05
ENSMMUG00000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	1.233839292	5.13E-27	6.86E-25
ENSMMUG00000006529	acid sensing ion channel subunit 1 [Source:VGNC Symbol;Acc:VGNC:70035]	-0.87093922	0.007788042	0.025904107
ENSMMUG00000000152	transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]	2.389522569	9.41E-11	1.80E-09
ENSMMUG00000004982	activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]	3.285665726	0.000248553	0.001302973
ENSMMUG00000046877	activin A receptor type 1B [Source:NCBI gene;Acc:696587]	1.445211956	0.013880395	0.042203986
ENSMMUG00000022922	nuclear receptor subfamily 4 group A member 1 [Source:VGNC Symbol;Acc:VGNC:75517]	-0.40592457	0.000631354	0.002954283
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	0.821372224	1.32E-15	5.12E-14
ENSMMUG00000064514	keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]	0.854373088	1.48E-09	2.29E-08

ENSMMUG00000018217	keratin 84 [Source:VGNC Symbol;Acc:VGNC:74220]	-	0.908965846	0.00919798	0.029836521
ENSMMUG00000057134	keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]	-	0.818827101	0.002737298	0.010556968
ENSMMUG00000055016	keratin, type II cytoskeletal 6A [Source:NCBI gene;Acc:719283]	-	0.446995418	1.32E-05	9.30E-05
ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	-	1.950787275	9.90E-09	1.32E-07
ENSMMUG00000052817	Sp7 transcription factor [Source:NCBI gene;Acc:702575]	-	1.486481211	6.62E-06	5.03E-05
ENSMMUG00000020036	Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]	-	1.105124592	5.86E-06	4.52E-05
ENSMMUG00000006608	poly(rC) binding protein 2 [Source:NCBI gene;Acc:703175]	-	0.456955646	0.006713572	0.022745691
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	-	1.632889761	2.38E-13	6.67E-12
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	-	1.651376529	1.47E-11	3.19E-10
ENSMMUG00000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	-	2.874408667	9.74E-35	2.73E-32
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	-	1.107375964	9.16E-16	3.62E-14
ENSMMUG00000016203	thymocyte expressed, positive selection associated 1 [Source:VGNC Symbol;Acc:VGNC:79775]	-	0.444689502	0.001544289	0.006412565
ENSMMUG00000055590		-	0.852085696	1.12E-08	1.48E-07
ENSMMUG00000013228	retinol dehydrogenase 5 [Source:VGNC Symbol;Acc:VGNC:82219]	-	1.758036679	0.011092341	0.034918412
ENSMMUG00000006293	SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]	-	0.801383663	7.33E-08	8.40E-07
ENSMMUG00000053458	ORMDL sphingolipid biosynthesis regulator 2 [Source:NCBI gene;Acc:710296]	-	0.560400142	0.000136926	0.000759238
ENSMMUG00000006295	matrix metalloproteinase 19 [Source:VGNC Symbol;Acc:VGNC:74896]	-	0.568621642	0.006789051	0.022957043
ENSMMUG00000011002	PYM homolog 1, exon junction complex associated factor [Source:VGNC Symbol;Acc:VGNC:76570]	-	0.714688396	7.33E-06	5.52E-05
ENSMMUG00000018814	diacylglycerol kinase alpha [Source:VGNC Symbol;Acc:VGNC:71780]	-	1.120311678	1.35E-05	9.53E-05
ENSMMUG00000031853	RAB5B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81546]	-	0.999519168	2.69E-06	2.22E-05
ENSMMUG00000064364	sulfite oxidase [Source:NCBI gene;Acc:711164]	-	0.917819079	0.002040559	0.008203772
ENSMMUG00000064075	ring finger protein 41 [Source:NCBI gene;Acc:711969]	-	0.683052514	0.003548559	0.013164404
ENSMMUG00000054020	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.261908273	0.000300437	0.001536481
ENSMMUG00000059663		-	0.967032086	9.37E-06	6.85E-05
ENSMMUG00000000803	signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]	-	1.664672037	1.64E-07	1.75E-06
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]	-	2.059927312	2.59E-11	5.40E-10
ENSMMUG00000053460		-	1.569936514	6.00E-07	5.72E-06
ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]	-	1.148438503	1.72E-06	1.47E-05
ENSMMUG00000013766	prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]	-	0.801770974	1.64E-05	0.000112736
ENSMMUG00000004522	DNA primase subunit 1 [Source:NCBI gene;Acc:710253]	-	0.392292674	0.001544723	0.006412565
ENSMMUG00000043411	zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]	-	1.440835051	3.71E-08	4.50E-07
ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]	-	0.692827167	0.00031783	0.001614245
ENSMMUG00000013518	myosin IA [Source:VGNC Symbol;Acc:VGNC:75110]	-	0.403862603	0.00438045	0.015848051
ENSMMUG00000021782	LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]	-	0.905368192	1.26E-12	3.21E-11

ENSMMUG0000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]	-	1.034758275	3.35E-09	4.91E-08
ENSMMUG00000055477		-	1.413332132	3.94E-10	6.74E-09
ENSMMUG00000001210	elongation factor 1-alpha 1 [Source:NCBI gene;Acc:100425937]	-	2.861175428	0.010460733	0.033210517
ENSMMUG000000062139		-	1.937145071	1.53E-07	1.64E-06
ENSMMUG00000011579	TAFA chemokine like family member 2 [Source:VGNC Symbol;Acc:VGNC:78189]	-	0.535364087	0.00080597	0.003669667
ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]	-	5.208378393	1.52E-15	5.82E-14
ENSMMUG00000003669	methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]	-	0.494064865	0.000605517	0.0028638
ENSMMUG000000041729		-	1.101536916	0.000221281	0.001174055
ENSMMUG00000054816	interleukin 1 receptor associated kinase 3 [Source:NCBI gene;Acc:717845]	-	2.369432405	0.014022222	0.042561389
ENSMMUG00000016631	glutamate receptor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73195]	-	0.906061431	0.010207674	0.032537587
ENSMMUG00000011650	dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]	-	1.168210246	1.44E-05	0.000100435
ENSMMUG00000059548		-	1.709567495	0.006385913	0.021797469
ENSMMUG00000055447	MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]	-	1.502788845	3.49E-20	2.19E-18
ENSMMUG00000053722		-	2.193227733	0.000439015	0.002147298
ENSMMUG00000046235	YEATS domain containing 4 [Source:NCBI gene;Acc:718376]	-	2.954476855	0.011362214	0.035644816
ENSMMUG00000044169	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.251994503	0.016283686	0.048133671
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]	-	1.047784439	6.05E-13	1.61E-11
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]	-	2.450974441	1.77E-13	5.03E-12
ENSMMUG00000054953	leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]	-	2.714386717	7.85E-05	0.0004598
ENSMMUG00000007727	TBC1 domain family member 15 [Source:VGNC Symbol;Acc:VGNC:78215]	-	3.303595888	0.006686076	0.022663486
ENSMMUG00000012289	GLIPR1 like 1 [Source:VGNC Symbol;Acc:VGNC:81412]	-	0.783700812	0.000631795	0.002954966
ENSMMUG00000012290	GLIPR1 like 2 [Source:VGNC Symbol;Acc:VGNC:81413]	-	0.973671179	0.008478579	0.027903099
ENSMMUG00000017864	oxysterol binding protein like 8 [Source:VGNC Symbol;Acc:VGNC:75630]	-	1.151636758	0.00134238	0.005685991
ENSMMUG00000059985		-	5.042139462	1.41E-06	1.23E-05
ENSMMUG00000005530	synaptotagmin 1 [Source:VGNC Symbol;Acc:VGNC:78074]	-	0.600123608	0.014877111	0.044653623
ENSMMUG00000062826		-	-3.50375082	0.005195678	0.018287898
ENSMMUG00000017463		-	3.562389396	0.003239471	0.012153787
ENSMMUG00000015862	centrosomal protein 290 [Source:VGNC Symbol;Acc:VGNC:71126]	-	0.579260675	0.000364338	0.001812385
ENSMMUG00000059975		-	0.369809545	0.008199663	0.027112445
ENSMMUG00000049117	CLLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]	-	4.101628315	0.000245863	0.001291289
ENSMMUG00000002243	pleckstrin homology and RhoGEF domain containing G7 [Source:VGNC Symbol;Acc:VGNC:76149]	-	0.777162363	8.40E-07	7.73E-06
ENSMMUG00000002244	early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]	-	0.949168921	3.18E-07	3.20E-06
ENSMMUG00000052496		-	-0.88098085	1.41E-12	3.57E-11
ENSMMUG00000055071	Y RNA [Source:RFAM;Acc:RF00019]	-	-1.29220773	0.013472703	0.041169691
ENSMMUG00000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	-	1.424131724	5.44E-16	2.23E-14
ENSMMUG00000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	-	1.324752024	1.30E-09	2.04E-08

ENSMMUG00000018901	FYVE, RhoGEF and PH domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72548]	1.720011135	6.47E-13	1.72E-11
ENSMMUG00000018903	vezatin, adherens junctions transmembrane protein [Source:VGNC Symbol;Acc:VGNC:79120]	-0.68978838	1.06E-05	7.68E-05
ENSMMUG00000062006	methionyl aminopeptidase 2 [Source:NCBI gene;Acc:712400]	-1.15609535	8.21E-08	9.35E-07
ENSMMUG00000013812	ubiquitin specific peptidase 44 [Source:VGNC Symbol;Acc:VGNC:79221]	1.196570142	4.71E-06	3.71E-05
ENSMMUG00000009303	coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]	-1.11438903	6.49E-06	4.96E-05
ENSMMUG00000009308	histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]	2.814059338	1.26E-07	1.37E-06
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	2.779323689	1.89E-23	1.66E-21
ENSMMUG00000053376		2.236107523	4.90E-16	2.02E-14
ENSMMUG00000050585		2.101953654	6.04E-13	1.61E-11
ENSMMUG00000022404	apoptotic peptidase activating factor 1 [Source:VGNC Symbol;Acc:VGNC:69975]	0.53321351	2.83E-07	2.88E-06
ENSMMUG00000022406	ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]	1.132155825	4.98E-08	5.87E-07
ENSMMUG00000061260	Spi-C transcription factor [Source:NCBI gene;Acc:695809]	0.980694928	3.56E-07	3.57E-06
ENSMMUG00000042077	DNA damage regulated autophagy modulator 1 [Source:NCBI gene;Acc:697427]	0.720625293	1.33E-08	1.75E-07
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	2.063786607	1.01E-16	4.44E-15
ENSMMUG00000061923		1.801714289	0.000588659	0.002791601
ENSMMUG00000005504	nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]	2.035368107	1.02E-07	1.14E-06
ENSMMUG00000061953		2.883522111	0.005562289	0.019359636
ENSMMUG00000023469	heat shock protein 90 beta family member 1 [Source:NCBI gene;Acc:699568]	0.844897826	0.005078161	0.017928262
ENSMMUG00000021291	thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]	0.784321445	0.003243527	0.012161492
ENSMMUG00000057796	host cell factor C2 [Source:NCBI gene;Acc:700316]	0.685092754	4.43E-05	0.000275302
ENSMMUG00000022570	nuclear transcription factor Y subunit beta [Source:NCBI gene;Acc:700451]	0.722713785	5.48E-05	0.000333875
ENSMMUG00000012091	thioredoxin reductase 1 [Source:VGNC Symbol;Acc:VGNC:78679]	0.568114122	1.71E-05	0.000117544
ENSMMUG00000017127	carbohydrate sulfotransferase 11 [Source:VGNC Symbol;Acc:VGNC:82123]	0.95607829	0.003640543	0.01348068
ENSMMUG00000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	1.283731446	4.02E-16	1.69E-14
ENSMMUG00000009519	WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]	1.078645473	9.42E-05	0.000541005
ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]	1.235321916	1.22E-07	1.33E-06
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	2.081918051	7.25E-09	9.95E-08
ENSMMUG00000021808	cryptochrome circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:71499]	0.562348736	0.000486791	0.002356322
ENSMMUG00000015544	PWP1 homolog, endonuclein [Source:NCBI gene;Acc:705262]	1.495726843	0.014408524	0.043555252
ENSMMUG00000015550	PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]	1.299599311	9.40E-05	0.000539752
ENSMMUG00000057713	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-1.6483875	0.002385031	0.009373681
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	1.234953641	1.44E-17	6.96E-16
ENSMMUG00000015108	SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]	0.832496833	1.26E-07	1.37E-06
ENSMMUG00000056729	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.89358914	1.92E-05	0.000130589
ENSMMUG00000039553	ubiquitin specific peptidase 30 [Source:NCBI gene;Acc:706607]	0.978003712	6.72E-05	0.00039963
ENSMMUG00000006957	uracil DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78725]	0.772354099	0.001086727	0.004742971
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	0.871076368	1.10E-09	1.74E-08
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	0.928692337	1.86E-11	3.96E-10
ENSMMUG00000003297	coiled-coil domain containing 63 [Source:VGNC Symbol;Acc:VGNC:70879]	0.725306645	1.36E-05	9.53E-05
ENSMMUG00000002347	myosin light chain 2 [Source:VGNC Symbol;Acc:VGNC:75103]	0.69108031	0.000803526	0.003661958

ENSMMUG0000008336	acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]	0.784905231	5.32E-14	1.66E-12
ENSMMUG00000053496		0.864000513	0.00047317	0.002296206
ENSMMUG00000060754	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.875340858	1.74E-07	1.84E-06
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	1.015603607	4.97E-07	4.80E-06
ENSMMUG00000007126	HECT domain E3 ubiquitin protein ligase 4 [Source:VGNC Symbol;Acc:VGNC:73245]	0.281404311	0.013888965	0.042220889
ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]	1.939772383	1.22E-13	3.57E-12
ENSMMUG00000004435	two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]	1.404945802	6.83E-06	5.18E-05
ENSMMUG00000006723	solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]	0.961917339	0.000765479	0.003503363
ENSMMUG00000004205	phospholipase B domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76122]	2.263369631	0.000325498	0.001645444
ENSMMUG00000004208	serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]	1.653991601	0.000580976	0.002757962
ENSMMUG000000051363		1.036949982	0.000105127	0.000597079
ENSMMUG000000054768		0.82583343	1.58E-05	0.000109215
ENSMMUG000000057506		0.556661495	0.000321546	0.001628399
ENSMMUG000000052680		0.786644632	9.20E-07	8.37E-06
ENSMMUG00000017478	tescalcin [Source:VGNC Symbol;Acc:VGNC:79571]	0.717738413	0.000690945	0.003197731
ENSMMUG00000014027	nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]	1.221662736	0.000278099	0.001437441
ENSMMUG000000062615		1.226276372	0.000247371	0.001297747
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	0.721821541	1.60E-06	1.38E-05
ENSMMUG000000053710		0.690774677	5.70E-07	5.44E-06
ENSMMUG00000011209	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	0.913507349	1.27E-05	8.99E-05
ENSMMUG000000055209		0.869854494	2.25E-09	3.39E-08
ENSMMUG000000046665	glutamyl-tRNA amidotransferase subunit C [Source:NCBI gene;Acc:702258]	0.917479081	0.010895059	0.034379257
ENSMMUG00000020601	coenzyme Q5, methyltransferase [Source:VGNC Symbol;Acc:VGNC:81376]	0.506679399	9.07E-05	0.000523125
ENSMMUG000000046646	Y RNA [Source:RFAM;Acc:RF00019]	0.763411881	7.63E-05	0.000448126
ENSMMUG00000004223	ring finger protein 10 [Source:VGNC Symbol;Acc:VGNC:76702]	0.929915952	2.96E-07	3.00E-06
ENSMMUG000000055513		1.477584124	0.015866066	0.04713768
ENSMMUG000000058536		2.292743838	2.50E-20	1.62E-18
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	1.725370213	1.14E-10	2.14E-09
ENSMMUG00000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	3.334133218	4.12E-20	2.55E-18
ENSMMUG000000059782		4.005267406	5.45E-15	1.96E-13
ENSMMUG000000057798		1.645983878	0.000849567	0.003829471
ENSMMUG00000016454	4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]	0.702083936	1.15E-07	1.27E-06
ENSMMUG00000013643	zinc finger CCHC-type containing 8 [Source:VGNC Symbol;Acc:VGNC:79487]	1.899162694	0.002637121	0.010221211
ENSMMUG00000004412	arginine and serine rich coiled-coil 2 [Source:VGNC Symbol;Acc:VGNC:77139]	3.235769717	4.78E-07	4.64E-06
ENSMMUG00000007556	kinetochore associated 1 [Source:VGNC Symbol;Acc:VGNC:74064]	0.464222264	0.000757218	0.003468956
ENSMMUG000000063387	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.848245428	0.002960031	0.011273361
ENSMMUG00000015221	huntingtin interacting protein 1 related [Source:VGNC Symbol;Acc:VGNC:73412]	0.662575477	0.000484422	0.002346475
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	-1.39561398	3.75E-08	4.54E-07
ENSMMUG00000015926	2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]	1.247523431	2.99E-07	3.02E-06
ENSMMUG00000015930	ADP ribosylation factor like GTPase 6 interacting protein 4 [Source:VGNC Symbol;Acc:VGNC:69860]	1.507115077	0.000828996	0.003751212
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	1.421835054	4.96E-10	8.31E-09

ENSMMUG00000031495	chromosome 11 C12orf65 homolog [Source:NCBI gene;Acc:708974]	1.609255737	0.002646202	0.010253576
ENSMMUG00000000434	cyclin dependent kinase 2 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:70944]	0.863723991	0.007945237	0.026364425
ENSMMUG00000013514	lysine methyltransferase 5A [Source:VGNC Symbol;Acc:VGNC:74159]	0.564146296	0.000255881	0.001337889
ENSMMUG00000023048	cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]	1.200381171	0.001122554	0.004876571
ENSMMUG00000058836	transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]	1.077278279	3.56E-08	4.33E-07
ENSMMUG00000059674		1.717105733	0.003676635	0.013603549
ENSMMUG00000006546	ATPase H+ transporting V0 subunit a2 [Source:VGNC Symbol;Acc:VGNC:70096]	0.449010308	0.000211099	0.001124711
ENSMMUG00000006861	dynein axonemal heavy chain 10 [Source:NCBI gene;Acc:710343]	0.704987864	1.05E-05	7.59E-05
ENSMMUG00000011117	acetoacetyl-CoA synthetase [Source:NCBI gene;Acc:707015]	0.593420681	0.003055906	0.011578754
ENSMMUG00000060158		3.251952335	0.005033566	0.017815673
ENSMMUG00000050145	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.701302589	0.002306161	0.009094291
ENSMMUG00000020926	syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]	3.344469819	6.60E-06	5.03E-05
ENSMMUG00000058674		2.838717474	0.016963812	0.049849862
ENSMMUG00000017026	fibrosin like 1 [Source:NCBI gene;Acc:696295]	0.570905533	0.004926413	0.017511556
ENSMMUG00000015463	DNA polymerase epsilon, catalytic subunit [Source:NCBI gene;Acc:698023]	0.558917915	0.000674529	0.003128983
ENSMMUG00000031451	golgin A3 [Source:VGNC Symbol;Acc:VGNC:73106]	1.135084819	2.92E-06	2.39E-05
ENSMMUG00000015468	checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]	3.116534279	3.76E-25	4.06E-23
ENSMMUG00000023321	UDP-glucose glycoprotein glucosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:78981]	0.532551841	0.000415555	0.00204396
ENSMMUG00000049232	AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]	6.631948114	8.86E-12	2.01E-10
ENSMMUG00000001989	RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]	7.208056848	7.32E-15	2.59E-13
ENSMMUG00000027543	Y RNA [Source:RFAM;Acc:RF00019]	7.11995716	1.26E-08	1.66E-07
ENSMMUG00000004177	myosin VIIB [Source:NCBI gene;Acc:714563]	0.330372511	0.001628534	0.006722678
ENSMMUG00000056151		1.6256449	0.011754484	0.036654021
ENSMMUG00000000376	bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]	2.207512217	0.000258012	0.001347265
ENSMMUG00000020928	nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]	1.377341755	2.62E-08	3.26E-07
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	1.962732536	3.32E-13	9.17E-12
ENSMMUG00000059182		1.95385831	2.95E-16	1.25E-14
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	1.934548097	1.70E-26	2.21E-24
ENSMMUG00000059504		2.492368645	3.25E-08	3.99E-07
ENSMMUG00000051751		0.62937339	0.000427615	0.002099594
ENSMMUG00000005610	protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]	-0.42575409	0.007762507	0.025843692
ENSMMUG00000006446	transmembrane protein 177 [Source:VGNC Symbol;Acc:VGNC:79686]	2.467174849	0.000489702	0.002367954
ENSMMUG00000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]	1.058612276	6.56E-07	6.18E-06
ENSMMUG00000043114	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.646457063	0.004637088	0.016634916
ENSMMUG00000009844	R3H domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76637]	0.835102376	0.014223522	0.043079148
ENSMMUG00000017486	minichromosome maintenance complex component 6 [Source:VGNC Symbol;Acc:VGNC:74685]	0.514496116	0.009599168	0.0308595
ENSMMUG00000040854	aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]	1.244565095	9.99E-07	9.04E-06

ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.605978235	4.36E-10	7.39E-09
ENSMMUG00000016845	zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]	2.821310056	9.17E-05	0.000527868
ENSMMUG00000000042	activin A receptor type 2A [Source:VGNC Symbol;Acc:VGNC:69447]	1.306132207	0.010089142	0.032220459
ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	0.685220605	4.61E-06	3.64E-05
ENSMMUG00000010521	ADP ribosylation factor like GTPase 5A [Source:VGNC Symbol;Acc:VGNC:70017]	1.967575462	0.000365284	0.001815802
ENSMMUG00000010526	calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]	1.252116338	2.05E-05	0.000138661
ENSMMUG00000011637	coiled-coil domain containing 148 [Source:VGNC Symbol;Acc:VGNC:70856]	1.822728005	0.005678973	0.019687576
ENSMMUG00000011638	plakophilin 4 [Source:VGNC Symbol;Acc:VGNC:76153]	1.665878134	0.005520779	0.019248602
ENSMMUG00000052818	death associated protein like 1 [Source:NCBI gene;Acc:699071]	1.672562543	0.010143712	0.032379986
ENSMMUG00000057379		1.451673905	0.000337413	0.001698328
ENSMMUG00000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	1.347972692	2.81E-11	5.82E-10
ENSMMUG00000055201	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.571725362	0.006163195	0.021126006
ENSMMUG00000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	1.16261593	2.38E-08	3.00E-07
ENSMMUG00000063868	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.00041683	0.003452829	0.012847119
ENSMMUG00000006182	bromodomain adjacent to zinc finger domain 2B [Source:NCBI gene;Acc:702780]	0.553113707	1.34E-05	9.46E-05
ENSMMUG00000051450	phospholipase A2 receptor 1 [Source:NCBI gene;Acc:700191]	0.602765699	2.88E-07	2.92E-06
ENSMMUG00000002678	integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]	1.549047243	7.62E-09	1.04E-07
ENSMMUG00000055970		1.041750498	1.81E-07	1.91E-06
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	1.674479026	1.37E-12	3.47E-11
ENSMMUG00000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	2.123563063	1.19E-05	8.50E-05
ENSMMUG00000013251	xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]	1.842540537	0.000125874	0.000704079
ENSMMUG00000063463		1.249015934	2.05E-05	0.000138922
ENSMMUG00000021775	beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]	-0.89873091	0.000297044	0.001522459
ENSMMUG00000006215	serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]	0.815797229	0.000336933	0.001696814
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	2.200419143	8.39E-13	2.19E-11
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	2.297045267	8.52E-11	1.65E-09
ENSMMUG00000017143	LDL receptor related protein 2 [Source:VGNC Symbol;Acc:VGNC:81430]	1.907707129	0.003954409	0.0144905
ENSMMUG00000058098		0.570479582	0.000344446	0.00172818
ENSMMUG00000020510	kelch like family member 41 [Source:VGNC Symbol;Acc:VGNC:74062]	0.987359734	4.90E-08	5.78E-07
ENSMMUG00000015198	glutamate decarboxylase 1 [Source:VGNC Symbol;Acc:VGNC:72862]	0.804096097	0.00016334	0.000890907
ENSMMUG00000015203	golgi reassembly stacking protein 2 [Source:VGNC Symbol;Acc:VGNC:72957]	0.726012667	0.001099234	0.004790104
ENSMMUG00000011189	tousled like kinase 1 [Source:VGNC Symbol;Acc:VGNC:78367]	0.581567765	0.009019455	0.029359288
ENSMMUG00000054176	methyltransferase like 8 [Source:NCBI gene;Acc:695361]	0.897396426	0.002618011	0.010169631
ENSMMUG00000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	1.702591275	2.61E-12	6.38E-11
ENSMMUG00000007301	dynein cytoplasmic 1 intermediate chain 2 [Source:VGNC Symbol;Acc:VGNC:71953]	0.619620952	0.000266913	0.001387808
ENSMMUG00000007310	solute carrier family 25 member 12 [Source:VGNC Symbol;Acc:VGNC:77430]	1.092262619	1.85E-08	2.38E-07

ENSMMUG00000058130	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.936313849	0.01584138	0.04707541
ENSMMUG00000007313	histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]	-	1.625639714	6.18E-06	4.74E-05
ENSMMUG00000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	-	1.035666157	3.39E-11	6.91E-10
ENSMMUG000000054462		-	1.111568229	1.81E-10	3.30E-09
ENSMMUG000000061038		-	2.251080879	0.000463023	0.002253723
ENSMMUG00000022553	pyruvate dehydrogenase kinase 1 [Source:VGNC Symbol;Acc:VGNC:75932]	-	3.455151994	0.001089042	0.004750694
ENSMMUG00000020792	Rap guanine nucleotide exchange factor 4 [Source:VGNC Symbol;Acc:VGNC:76490]	-	1.550944381	2.67E-06	2.20E-05
ENSMMUG00000014672	mitogen-activated protein kinase kinase kinase 20 [Source:NCBI gene;Acc:698274]	-	2.188037589	6.23E-05	0.000374418
ENSMMUG00000023006	corepressor interacting with RBPJ, 1 [Source:VGNC Symbol;Acc:VGNC:71331]	-	0.989155399	0.001157793	0.005011029
ENSMMUG00000021012	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	-	0.4744023	3.31E-06	2.68E-05
ENSMMUG000000053004		-	0.724665864	6.71E-05	0.000399206
ENSMMUG00000009593	WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]	-	1.573178825	6.12E-16	2.49E-14
ENSMMUG000000065344	homeobox D1 [Source:NCBI gene;Acc:701064]	-	0.727373664	0.000517678	0.002483546
ENSMMUG00000008502	alkylglycerone phosphate synthase [Source:VGNC Symbol;Acc:VGNC:69747]	-	0.285794044	0.013534171	0.041321505
ENSMMUG00000002183	oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]	-	1.262315845	2.43E-07	2.50E-06
ENSMMUG00000002185	protein activator of interferon induced protein kinase EIF2AK2 [Source:VGNC Symbol;Acc:VGNC:76421]	-	0.664468841	2.82E-05	0.000183677
ENSMMUG000000054264	pejvakin [Source:NCBI gene;Acc:708668]	-	0.640045245	0.000938998	0.004165636
ENSMMUG00000009038	titin [Source:NCBI gene;Acc:703527]	-	2.040986796	2.41E-05	0.00016008
ENSMMUG00000019690	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	-	2.321676634	3.73E-12	8.88E-11
ENSMMUG000000053406		-	3.640454794	1.88E-05	0.000128112
ENSMMUG000000049746		-	-0.37311349	0.009162272	0.02974133
ENSMMUG00000014277	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	-	1.24771164	2.08E-13	5.84E-12
ENSMMUG00000014394	DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]	-	1.359520014	8.29E-21	5.56E-19
ENSMMUG00000014397	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	-	3.011324217	4.70E-22	3.56E-20
ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]	-	0.944041824	7.14E-06	5.39E-05
ENSMMUG00000010405	family with sequence similarity 171 member B [Source:VGNC Symbol;Acc:VGNC:72404]	-	1.410903882	2.02E-06	1.70E-05
ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]	-	2.07348911	1.49E-19	8.73E-18
ENSMMUG00000003506	solute carrier family 40 member 1 [Source:VGNC Symbol;Acc:VGNC:77384]	-	-1.1351855	0.01358418	0.041438101
ENSMMUG00000014314	ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]	-	-1.47136973	9.86E-15	3.44E-13
ENSMMUG000000061305		-	-0.78179117	0.002126617	0.008512141
ENSMMUG00000003260		-	1.507598785	1.16E-14	4.02E-13
ENSMMUG000000064089		-	1.155799992	7.55E-15	2.66E-13
ENSMMUG00000014307	myostatin [Source:VGNC Symbol;Acc:VGNC:74870]	-	1.193508849	1.04E-11	2.32E-10

ENSMMUG0000007283	3-hydroxyisobutyryl-CoA hydrolase [Source:NCBI gene;Acc:713951]	-	0.729475201	0.004830764	0.017228334
ENSMMUG0000005612	glutaminase [Source:NCBI gene;Acc:693520]	-	-1.67826988	0.007252553	0.024383255
ENSMMUG0000005613	signal transducer and activator of transcription 1 [Source:VGNC Symbol;Acc:VGNC:77904]	-	-0.72052741	8.33E-08	9.48E-07
ENSMMUG0000001761	myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]	-	0.717708336	0.001935133	0.007827045
ENSMMUG00000037175	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.441696273	0.000684924	0.003173004
ENSMMUG0000001475	transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]	-	2.638188145	3.58E-09	5.22E-08
ENSMMUG00000055355		-	0.441184494	0.001508905	0.006293687
ENSMMUG00000061797	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.087265372	0.006150741	0.021093628
ENSMMUG00000061123	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.386579193	0.005357571	0.018758856
ENSMMUG0000005622	dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]	-	1.291508944	7.68E-08	8.79E-07
ENSMMUG00000057432	serine/threonine kinase 17b [Source:NCBI gene;Acc:696908]	-	0.931503309	0.00168696	0.006935281
ENSMMUG00000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	-	1.410458178	9.92E-22	7.29E-20
ENSMMUG00000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	-	1.927227271	1.90E-17	9.16E-16
ENSMMUG00000022430	splicing factor 3b subunit 1 [Source:VGNC Symbol;Acc:VGNC:77179]	-	1.322705284	0.000319291	0.001618735
ENSMMUG00000023810	methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]	-	1.011684671	1.32E-07	1.44E-06
ENSMMUG00000023811	boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]	-	1.160441788	6.94E-06	5.25E-05
ENSMMUG00000012822	phospholipase C like 1 (inactive) [Source:NCBI gene;Acc:698200]	-	0.704393288	0.002287142	0.009029447
ENSMMUG00000051936		-	-2.29236086	7.68E-07	7.14E-06
ENSMMUG00000050082		-	0.700683562	0.011331427	0.035556188
ENSMMUG00000047974	aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]	-	1.034194373	1.03E-14	3.57E-13
ENSMMUG00000022202	basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]	-	1.105292805	2.10E-08	2.66E-07
ENSMMUG00000031296	caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]	-	1.462168237	8.03E-12	1.83E-10
ENSMMUG00000018356	flagellum associated containing coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:72508]	-	1.361612573	0.000888833	0.003978328
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	-	1.936451111	2.02E-25	2.25E-23
ENSMMUG00000018151	membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]	-	2.668746143	1.72E-06	1.47E-05
ENSMMUG00000045285	frizzled class receptor 7 [Source:NCBI gene;Acc:703064]	-	0.390211111	0.011124844	0.035000375
ENSMMUG0000000582	NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]	-	1.060914723	3.92E-07	3.89E-06
ENSMMUG00000061021		-	1.147053565	3.11E-05	0.00020109
ENSMMUG00000038427	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.65724997	0.009780373	0.03135353
ENSMMUG00000021152	family with sequence similarity 117 member B [Source:NCBI gene;Acc:705134]	-	0.405391154	0.009715536	0.031183558
ENSMMUG00000056824		-	-1.85887295	0.000286918	0.001476494
ENSMMUG00000022601	cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]	-	0.764186435	0.000161421	0.000881468
ENSMMUG00000022602	methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]	-	-1.4990445	4.42E-09	6.37E-08
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	-	1.770245639	2.96E-17	1.40E-15
ENSMMUG00000057651	frizzled class receptor 5 [Source:NCBI gene;Acc:710796]	-	-1.69162709	0.00192353	0.007794515
ENSMMUG00000008113	pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]	-	-2.18827996	4.30E-07	4.22E-06

ENSMMUG00000010871	crystallin gamma B [Source:VGNC Symbol;Acc:VGNC:71507]	3.400850237	0.002299527	0.009070679
ENSMMUG00000016077	isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]	2.843077656	5.08E-06	3.96E-05
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	2.925073141	4.38E-05	0.000272648
ENSMMUG00000005295	parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]	2.921942826	2.78E-05	0.000181099
ENSMMUG00000002809	unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]	1.551563487	6.06E-09	8.45E-08
ENSMMUG00000010508	carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]	3.185653518	4.76E-07	4.62E-06
ENSMMUG000000059604		0.501704424	0.009744372	0.031256241
ENSMMUG000000061342		1.691111577	2.29E-18	1.23E-16
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	0.865254018	2.87E-11	5.92E-10
ENSMMUG00000000382	sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]	0.799266265	7.29E-05	0.000429672
ENSMMUG000000064880		0.887592843	8.44E-08	9.59E-07
ENSMMUG000000053721		2.005678216	2.10E-09	3.18E-08
ENSMMUG00000006758	cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]	1.842539997	6.64E-05	0.000395412
ENSMMUG000000021877	protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]	2.02798389	6.46E-05	0.00038581
ENSMMUG000000052954	Wnt family member 6 [Source:NCBI gene;Acc:700573]	2.636763788	2.72E-07	2.77E-06
ENSMMUG00000017933	desmin [Source:VGNC Symbol;Acc:VGNC:71770]	0.415126788	0.001076618	0.004704711
ENSMMUG000000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	0.989200504	4.32E-22	3.29E-20
ENSMMUG000000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	0.916323424	2.58E-06	2.14E-05
ENSMMUG000000061834		0.982783967	2.05E-05	0.000138707
ENSMMUG000000046282		0.903862405	1.79E-11	3.84E-10
ENSMMUG000000051349		2.808822585	0.01395984	0.042390394
ENSMMUG000000018139	dedicator of cytokinesis 10 [Source:VGNC Symbol;Acc:VGNC:71888]	0.378525679	0.000276735	0.001430919
ENSMMUG000000051482		2.631622567	9.87E-13	2.55E-11
ENSMMUG000000054072		0.640803393	5.37E-07	5.16E-06
ENSMMUG000000045544	neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]	0.516123324	0.000315806	0.001604548
ENSMMUG000000013233	collagen type IV alpha 4 chain [Source:VGNC Symbol;Acc:VGNC:71299]	0.672467462	0.0079333	0.026331044
ENSMMUG000000013235	collagen type IV alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:81375]	0.789502151	9.57E-05	0.000548595
ENSMMUG000000054830		1.052842423	0.008284681	0.02734842
ENSMMUG000000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	1.434108609	2.35E-08	2.95E-07
ENSMMUG000000011777	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:82108]	2.922905004	0.000342513	0.001720912
ENSMMUG000000016871	alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]	2.155081957	9.71E-06	7.07E-05
ENSMMUG000000051779		0.517959268	0.009598877	0.0308595
ENSMMUG000000005646	diacylglycerol kinase delta [Source:VGNC Symbol;Acc:VGNC:71783]	0.456857454	0.000711796	0.003279079
ENSMMUG000000005650	ubiquitin specific peptidase 40 [Source:VGNC Symbol;Acc:VGNC:79226]	0.320424894	0.005361059	0.018764628

ENSMMUG00000021216	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]	0.915003887	4.90E-07	4.75E-06
ENSMMUG00000051807		1.422144675	2.44E-10	4.33E-09
ENSMMUG00000061244		1.095965284	0.006711031	0.022742577
ENSMMUG00000011516	ADP ribosylation factor like GTPase 4C [Source:VGNC Symbol;Acc:VGNC:70018]	2.291373758	0.000408241	0.0020101
ENSMMUG00000054449	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.219102378	0.002252251	0.008926884
ENSMMUG00000060487	atypical chemokine receptor 3 [Source:NCBI gene;Acc:694428]	0.908012836	0.008405251	0.027674767
ENSMMUG00000014049	collagen type VI alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:71303]	1.142617027	0.002042948	0.008211022
ENSMMUG00000021723	beta-1,4-N-acetyl-galactosaminyltransferase 4 [Source:NCBI gene;Acc:114669831]	0.472834189	0.00138919	0.00586412
ENSMMUG00000059353	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]	-1.06879251	8.78E-11	1.69E-09
ENSMMUG00000056711	ribonuclease inhibitor-like [Source:NCBI gene;Acc:114672186]	0.874536546	9.75E-11	1.86E-09
ENSMMUG00000062863		1.460768418	2.80E-09	4.13E-08
ENSMMUG00000004622	NLR family pyrin domain containing 6 [Source:VGNC Symbol;Acc:VGNC:75234]	1.746331244	0.001387303	0.005859685
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	2.520039895	5.32E-29	8.68E-27
ENSMMUG00000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	3.042149062	1.03E-15	4.04E-14
ENSMMUG00000010782	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:114669774]	0.542306782	0.010325816	0.032841668
ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	1.657774445	5.80E-09	8.14E-08
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	1.637600921	2.68E-25	2.93E-23
ENSMMUG00000004014	interferon regulatory factor 7 [Source:VGNC Symbol;Acc:VGNC:73765]	0.756520245	0.001923755	0.007794515
ENSMMUG00000004024	cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]	1.298810331	5.44E-06	4.22E-05
ENSMMUG00000016715	p53-induced death domain protein 1 [Source:VGNC Symbol;Acc:VGNC:81498]	0.335441423	0.01298958	0.039884581
ENSMMUG00000043846		0.605924127	0.000225341	0.001193789
ENSMMUG00000010544	mucin 5B, oligomeric mucus/gel-forming [Source:VGNC Symbol;Acc:VGNC:75081]	0.525210227	8.53E-06	6.31E-05
ENSMMUG00000017450	MOB kinase activator 2 [Source:NCBI gene;Acc:720951]	2.046611607	1.61E-07	1.71E-06
ENSMMUG00000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	4.031147968	1.02E-30	2.02E-28
ENSMMUG00000004773	transient receptor potential cation channel subfamily M member 5 [Source:VGNC Symbol;Acc:VGNC:78955]	0.728779353	0.007527985	0.025158469
ENSMMUG00000000511	cysteinyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:70540]	0.702666453	0.014591023	0.043973761
ENSMMUG00000051131	MAS related GPR family member G [Source:NCBI gene;Acc:721253]	0.723854354	0.000655756	0.003050984
ENSMMUG00000019736	SH3 and multiple ankyrin repeat domains 2 [Source:NCBI gene;Acc:708192]	0.767661814	0.004930851	0.017522891
ENSMMUG00000052168		3.710581102	3.34E-54	4.69E-51
ENSMMUG00000060517		1.538984106	2.67E-07	2.72E-06
ENSMMUG00000014237	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	1.975432538	2.87E-42	1.55E-39
ENSMMUG00000056342	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.655579119	0.000860971	0.003872162
ENSMMUG00000023192	choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]	1.931991516	4.83E-09	6.89E-08
ENSMMUG00000023188	aldehyde dehydrogenase 3 family member B1 [Source:VGNC Symbol;Acc:VGNC:69789]	0.4622855	0.006667588	0.02261175
ENSMMUG00000056105	T-box transcription factor 10 [Source:NCBI gene;Acc:721689]	0.402567867	0.003160306	0.011884413
ENSMMUG00000042611	nudix hydrolase 8 [Source:NCBI gene;Acc:721695]	2.519808641	0.011662788	0.036441016
ENSMMUG00000062171		2.015763183	0.002664509	0.010310269
ENSMMUG00000011821	phosphatidylinositol transfer protein membrane associated 1 [Source:VGNC Symbol;Acc:VGNC:76007]	1.423041431	0.007916755	0.026282353
ENSMMUG00000011817	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	1.416425352	1.46E-16	6.33E-15
ENSMMUG00000053378		1.232080202	6.06E-08	7.05E-07
ENSMMUG00000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.830418589	1.15E-18	6.36E-17

ENSMMUG0000005486	protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]	1.113309583	2.40E-08	3.01E-07
ENSMMUG0000005483	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	1.001562535	2.22E-08	2.79E-07
ENSMMUG0000005480	carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	0.982860804	2.45E-20	1.59E-18
ENSMMUG00000017280	TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]	1.41539076	1.64E-06	1.41E-05
ENSMMUG00000064122		0.624209109	0.001705495	0.007003268
ENSMMUG00000015925	G protein-coupled receptor kinase 2 [Source:VGNC Symbol;Acc:VGNC:73253]	0.61046215	0.002240865	0.008887251
ENSMMUG00000008771	lysine demethylase 2A [Source:VGNC Symbol;Acc:VGNC:73824]	0.524188174	0.000283297	0.001460003
ENSMMUG00000062635		-0.39936787	0.003817061	0.014037936
		-		
ENSMMUG00000020359	spectrin beta, non-erythrocytic 2 [Source:VGNC Symbol;Acc:VGNC:77872]	0.556287049	0.016357779	0.048271283
ENSMMUG00000010577	RNA-binding protein 4B [Source:NCBI gene;Acc:713553]	0.641045089	7.71E-06	5.77E-05
		-		
ENSMMUG00000002494	actinin alpha 3 [Source:NCBI gene;Acc:713811]	0.597598462	0.005648043	0.019604581
		-		
ENSMMUG00000015991	BRMS1 transcriptional repressor and anoikis regulator [Source:VGNC Symbol;Acc:VGNC:70334]	0.941043942	0.012417874	0.038330585
ENSMMUG00000015987	Ras and Rab interactor 1 [Source:VGNC Symbol;Acc:VGNC:76769]	-0.6397033	0.000608459	0.002873838
		-		
ENSMMUG00000006950	cornichon family AMPA receptor auxiliary protein 2 [Source:VGNC Symbol;Acc:VGNC:71366]	1.203160453	0.000763078	0.003493519
		-		
ENSMMUG00000031202	RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]	1.015754657	2.77E-06	2.27E-05
		-		
ENSMMUG00000022520	kinesin light chain 2 [Source:VGNC Symbol;Acc:VGNC:73869]	0.721919413	0.002479464	0.009695909
ENSMMUG00000057179	cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]	3.849344471	1.28E-22	1.04E-20
ENSMMUG00000056794	cystatin E/M [Source:NCBI gene;Acc:714999]	3.33578042	0.000303015	0.001547406
ENSMMUG00000019115	eukaryotic translation initiation factor 1A domain containing [Source:VGNC Symbol;Acc:VGNC:72127]	0.590647195	0.000146768	0.000809012
ENSMMUG00000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]	0.935454548	6.12E-06	4.70E-05
ENSMMUG00000008651	FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]	0.561047604	0.00135034	0.005717336
ENSMMUG00000038363	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]	1.523589358	9.12E-22	6.77E-20
ENSMMUG00000050028		1.334004301	5.83E-10	9.64E-09
ENSMMUG00000064005		1.402044333	8.24E-06	6.11E-05
ENSMMUG00000060437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.702412838	4.64E-06	3.65E-05
ENSMMUG00000019837	ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]	0.666621003	0.00107447	0.004701183
ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]	0.944033369	2.53E-08	3.17E-07
ENSMMUG00000007418	RELA proto-oncogene, NF-kB subunit [Source:VGNC Symbol;Acc:VGNC:76893]	0.353455599	0.001872336	0.007610369
ENSMMUG00000007416	signal-induced proliferation-associated 1 [Source:VGNC Symbol;Acc:VGNC:77218]	0.585863706	0.002671051	0.01032988
		-		
ENSMMUG00000007406	pecanex 3 [Source:NCBI gene;Acc:716000]	0.299512276	0.007374094	0.024720755
		-		
ENSMMUG00000050788	mitogen-activated protein kinase kinase kinase 11 [Source:NCBI gene;Acc:716038]	0.352885801	0.002168861	0.008655075
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]	1.824404233	1.08E-25	1.27E-23
ENSMMUG00000023477		1.670764705	8.14E-34	2.08E-31
ENSMMUG00000052424		0.985499882	1.08E-06	9.71E-06
ENSMMUG00000023300	FERM domain containing 8 [Source:NCBI gene;Acc:716379]	1.592768052	4.83E-06	3.79E-05
ENSMMUG00000023297	solute carrier family 25 member 45 [Source:VGNC Symbol;Acc:VGNC:77576]	1.444035389	0.000637665	0.002975871
ENSMMUG00000056343		1.059269212	6.91E-05	0.000409852
ENSMMUG00000012316	CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]	2.390313098	0.000511707	0.002462552
ENSMMUG00000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]	0.863200966	1.64E-06	1.41E-05
		-		
ENSMMUG00000013475	calpain 1 [Source:VGNC Symbol;Acc:VGNC:70529]	0.719675735	8.11E-06	6.03E-05
ENSMMUG00000018767	cell division cycle associated 5 [Source:NCBI gene;Acc:721998]	2.531950971	0.00482959	0.017228334
ENSMMUG00000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]	2.064180749	2.75E-18	1.47E-16
ENSMMUG00000064306	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.043826698	0.011034539	0.034780252
ENSMMUG00000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]	1.730071292	2.40E-24	2.32E-22

ENSMMUG00000003976	glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]	1.515646706	1.81E-12	4.52E-11
ENSMMUG000000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]	1.660037622	1.44E-23	1.30E-21
		-		
ENSMMUG00000003973	autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]	1.220607833	5.05E-07	4.87E-06
ENSMMUG00000003972	EH domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72175]	0.882224022	4.69E-09	6.72E-08
ENSMMUG000000031160	menin 1 [Source:NCBI gene;Acc:106995582]	0.538996415	6.73E-09	9.32E-08
ENSMMUG000000030597	mitogen-activated protein kinase kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81465]	0.644807379	2.59E-10	4.57E-09
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]	0.975062909	1.32E-08	1.73E-07
ENSMMUG00000007603	coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]	1.00136901	3.38E-07	3.39E-06
ENSMMUG00000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	0.980646359	3.43E-12	8.20E-11
ENSMMUG000000060596	BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]	1.041803353	2.17E-08	2.75E-07
		-		
ENSMMUG00000012948	phospholipase C beta 3 [Source:VGNC Symbol;Acc:VGNC:76165]	0.541650004	0.001668561	0.006873744
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	1.937519112	1.08E-28	1.68E-26
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	2.007051541	1.30E-35	3.95E-33
ENSMMUG00000012940	tRNA phosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:79242]	0.596083367	0.002280219	0.009004651
		-		
ENSMMUG00000012939	fermitin family member 3 [Source:VGNC Symbol;Acc:VGNC:72553]	0.396659008	0.016290936	0.048134057
		-		
ENSMMUG00000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]	0.778661187	2.25E-06	1.88E-05
ENSMMUG000000052569		3.922159785	5.77E-18	2.91E-16
ENSMMUG00000014131	microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]	1.596778181	5.00E-06	3.91E-05
ENSMMUG000000059969		1.217270802	0.000117247	0.000659245
ENSMMUG00000018152	spindlin interactor and repressor of chromatin binding [Source:VGNC Symbol;Acc:VGNC:77987]	0.522778819	0.002384249	0.009373233
ENSMMUG00000005776	atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]	0.759396935	6.27E-05	0.000376266
ENSMMUG00000005775	phospholipase A and acyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:76055]	0.372830013	0.000156357	0.000857821
		-		
ENSMMUG000000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	1.228828156	4.19E-18	2.17E-16
		-		
ENSMMUG00000005761	UBX domain protein 1 [Source:VGNC Symbol;Acc:VGNC:79135]	0.534732595	0.00896345	0.029197319
		-		
ENSMMUG00000013949	chromosome 14 C11orf98 homolog [Source:NCBI gene;Acc:100429527]	0.784575393	0.00664203	0.022557807
		-		
ENSMMUG00000006598	eukaryotic translation elongation factor 1 gamma [Source:NCBI gene;Acc:722274]	0.210669867	0.008394387	0.027651983
		-		
ENSMMUG000000031123	secretoglobin family 1A member 1 [Source:VGNC Symbol;Acc:VGNC:77004]	0.593948929	5.69E-05	0.000345514
		-		
ENSMMUG000000049661	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.526400833	4.64E-10	7.80E-09
ENSMMUG000000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.46388448	1.24E-14	4.27E-13
ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	3.893024512	2.69E-36	8.98E-34
ENSMMUG00000006655	myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]	3.754325992	1.01E-12	2.61E-11
ENSMMUG00000015280	cleavage and polyadenylation specific factor 7 [Source:VGNC Symbol;Acc:VGNC:71606]	2.099368299	0.001266221	0.005416425
		-		
ENSMMUG000000022372	cytochrome b561 family member A3 [Source:VGNC Symbol;Acc:VGNC:71458]	1.664289448	4.05E-05	0.000254429
		-		
ENSMMUG000000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	1.357324089	4.77E-10	8.02E-09
		-		
ENSMMUG00000015018	CD5 molecule [Source:VGNC Symbol;Acc:VGNC:70770]	1.599555738	0.000650974	0.003031751
		-		
ENSMMUG000000044417	CD6 molecule [Source:NCBI gene;Acc:695183]	1.855071764	0.002754744	0.010606746
ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	1.61824995	4.59E-11	9.14E-10
ENSMMUG000000052454	prostaglandin D2 receptor 2 [Source:NCBI gene;Acc:695853]	-0.84269335	0.005892836	0.020323474
ENSMMUG000000031100	membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]	2.065255556	0.006091662	0.020921719

ENSMMUG0000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	5.042639851	2.38E-15	8.92E-14
ENSMMUG00000020177	membrane spanning 4-domains A4A [Source:NCBI gene;Acc:698027]	2.223862285	2.43E-05	0.000161224
ENSMMUG00000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	1.769320238	2.18E-09	3.30E-08
ENSMMUG00000001745	oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]	1.015128033	2.64E-08	3.28E-07
ENSMMUG00000060712		0.851178997	1.99E-08	2.54E-07
ENSMMUG00000045775	macrophage expressed 1 [Source:NCBI gene;Acc:700274]	2.771332645	0.000929808	0.004130093
ENSMMUG00000064798		1.747466509	0.006206568	0.021248705
ENSMMUG00000001083	glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]	0.537938339	0.000142564	0.000788629
ENSMMUG00000011713	leupaxin [Source:VGNC Symbol;Acc:VGNC:74286]	-0.41179325	0.000286334	0.001474032
ENSMMUG00000054737		0.659134442	3.81E-08	4.60E-07
ENSMMUG00000059848	olfactory receptor 5B2 [Source:NCBI gene;Acc:100429465]	0.646217403	0.00787604	0.02617197
ENSMMUG00000050844	BTB domain containing 18 [Source:NCBI gene;Acc:703264]	1.311804208	0.004972653	0.017644612
ENSMMUG00000056184		2.97727657	1.15E-08	1.53E-07
ENSMMUG00000002566	selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]	2.064804631	0.004440747	0.016024858
ENSMMUG00000040741	thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]	1.300154106	1.41E-06	1.23E-05
ENSMMUG00000002563	zinc finger DHHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]	1.683543578	0.000822641	0.00372968
ENSMMUG00000058453	cleavage factor polyribonucleotide kinase subunit 1 [Source:NCBI gene;Acc:705071]	0.624677016	0.008704247	0.028518611
ENSMMUG00000010601	solute carrier family 43 member 3 [Source:NCBI gene;Acc:706267]	1.462791506	1.57E-06	1.35E-05
ENSMMUG00000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.097196973	2.58E-06	2.14E-05
ENSMMUG00000010627	apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]	0.946411703	5.00E-06	3.91E-05
ENSMMUG00000010869	nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]	0.896591077	0.01170805	0.036525468
ENSMMUG00000040099	Y RNA [Source:RFAM;Acc:RF00019]	1.660372313	0.000707754	0.003262603
ENSMMUG00000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	1.141716221	3.44E-08	4.20E-07
ENSMMUG00000012881	ATP/GTP binding protein like 2 [Source:NCBI gene;Acc:711126]	2.360891631	0.007857504	0.026116562
ENSMMUG00000043682	mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]	4.770978691	2.89E-08	3.57E-07
ENSMMUG00000011657	CUGBP Elav-like family member 1 [Source:VGNC Symbol;Acc:VGNC:71098]	-0.50622778	7.71E-05	0.000452354
ENSMMUG00000015607	solute carrier family 39 member 13 [Source:VGNC Symbol;Acc:VGNC:77538]	0.842989358	0.008678259	0.028453408
ENSMMUG00000015606	Spi-1 proto-oncogene [Source:NCBI gene;Acc:712010]	0.786370271	0.014600261	0.043992148
ENSMMUG00000062208	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.065395965	0.004122114	0.015029746
ENSMMUG00000015604	myosin binding protein C3 [Source:VGNC Symbol;Acc:VGNC:75094]	0.943893271	6.40E-07	6.05E-06
ENSMMUG00000022964		0.256262276	0.002260681	0.00894765
ENSMMUG00000060750	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.984784258	0.00304239	0.011536895
ENSMMUG00000003631	cytoskeleton associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71368]	1.263428323	0.001410657	0.00594579
ENSMMUG00000021446	diacylglycerol kinase zeta [Source:VGNC Symbol;Acc:VGNC:71789]	0.889471982	2.89E-11	5.95E-10
ENSMMUG00000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	0.975774787	2.70E-07	2.76E-06
ENSMMUG00000049305	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.105946547	0.000398989	0.001971466
ENSMMUG00000047219		1.011068884	1.03E-07	1.15E-06
ENSMMUG00000000874	carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]	0.752512913	0.000203915	0.001089997
ENSMMUG00000050952		1.214359451	0.000371277	0.001842329

ENSMMUG00000059728	tumor protein p53 inducible protein 11 [Source:NCBI gene;Acc:715295]	1.239741646	0.00532208	0.018657883
ENSMMUG00000049355	ALX homeobox 4 [Source:NCBI gene;Acc:715652]	1.521159473	0.001477839	0.006180655
ENSMMUG00000008827	apoptosis inhibitor 5 [Source:NCBI gene;Acc:716346]	0.827190921	0.00524319	0.018432001
ENSMMUG00000049945		0.558428364	0.002705664	0.010446456
ENSMMUG00000053160		0.329091979	0.002077484	0.008333111
ENSMMUG00000051583		0.863949622	0.004050126	0.014790345
ENSMMUG00000054427	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.972812564	0.015544025	0.04633798
ENSMMUG00000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	2.754312363	9.50E-16	3.74E-14
ENSMMUG00000004330	peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]	3.218207661	8.09E-07	7.47E-06
ENSMMUG00000004329	solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]	0.808434957	4.38E-05	0.000272648
ENSMMUG00000004327	CD44 molecule (Indian blood group) [Source:NCBI gene;Acc:717204]	-0.78099319	0.008797192	0.028755951
ENSMMUG00000002432	E74 like ETS transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:72209]	0.585403834	0.013702361	0.041740146
ENSMMUG00000002429	catalase [Source:VGNC Symbol;Acc:VGNC:70552]	0.512704951	0.00016405	0.000894427
ENSMMUG00000017218	KIAA1549 like [Source:VGNC Symbol;Acc:VGNC:73902]	0.710890047	6.33E-05	0.000379522
ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	0.987169443	9.11E-12	2.06E-10
ENSMMUG00000055352		1.175750923	4.85E-14	1.55E-12
ENSMMUG00000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	1.043117923	1.39E-11	3.03E-10
ENSMMUG00000065337		-0.6477491	5.01E-06	3.92E-05
ENSMMUG00000050093		0.554932239	0.001895802	0.007696823
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	-0.93838143	8.81E-08	9.98E-07
ENSMMUG00000023119	lin-7 homolog C, crumbs cell polarity complex component [Source:VGNC Symbol;Acc:VGNC:74070]	1.233975051	0.011044393	0.034803487
ENSMMUG00000031024	lactate dehydrogenase A [Source:NCBI gene;Acc:694309]	0.76860493	0.000360133	0.001793377
ENSMMUG00000006403	potassium voltage-gated channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:73971]	0.449016967	0.002647219	0.010254685
ENSMMUG00000005895	nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]	1.410712711	1.33E-06	1.16E-05
ENSMMUG00000056603		1.154460637	0.013526533	0.041307181
ENSMMUG00000064558		1.133450504	9.63E-05	0.000551214
ENSMMUG00000017628	pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]	2.602649698	5.33E-05	0.000325617
ENSMMUG00000055212		3.134015997	0.001104292	0.004807664
ENSMMUG00000054213	parathyroid hormone [Source:NCBI gene;Acc:700195]	1.103057908	0.011683004	0.036494251
ENSMMUG00000009695	BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]	0.959636172	7.66E-05	0.000449676
ENSMMUG00000010875	TEA domain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:78301]	0.328035159	0.008812904	0.028781704
ENSMMUG00000020956	parvin alpha [Source:VGNC Symbol;Acc:VGNC:75605]	0.711776791	0.000638619	0.00297916
ENSMMUG00000043504		1.006694778	9.39E-10	1.50E-08
ENSMMUG00000009205	SET binding factor 2 [Source:VGNC Symbol;Acc:VGNC:77075]	0.392063936	0.01070227	0.03386235
ENSMMUG00000008758	zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]	1.606556334	6.84E-06	5.18E-05
ENSMMUG00000023636	importin 7 [Source:NCBI gene;Acc:704213]	1.47773316	3.22E-09	4.72E-08

ENSMMUG0000005639	transmembrane protein 41B [Source:VGNC Symbol;Acc:VGNC:79754]	0.955112037	0.002695413	0.010409743
ENSMMUG00000021142	DENN domain containing 5A [Source:VGNC Symbol;Acc:VGNC:71674]	0.537194437	0.016330378	0.048210713
ENSMMUG00000006692	signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]	1.278950339	4.26E-11	8.54E-10
ENSMMUG00000006689	nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]	1.291426954	1.28E-05	9.09E-05
ENSMMUG00000038288	TMEM9 domain family member B [Source:NCBI gene;Acc:708447]	1.271153397	1.30E-13	3.78E-12
ENSMMUG00000051468	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.192844125	2.15E-11	4.56E-10
ENSMMUG00000001997	achaete-scute family bHLH transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:70031]	0.995372048	0.00681989	0.023044655
ENSMMUG00000001995	chromosome 14 C11orf16 homolog [Source:NCBI gene;Acc:705319]	1.112094414	4.56E-06	3.60E-05
ENSMMUG00000021827	tripartite motif containing 66 [Source:VGNC Symbol;Acc:VGNC:79766]	0.370634162	0.006398993	0.021827554
ENSMMUG00000018471	serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]	1.543465413	0.000281081	0.001450181
ENSMMUG00000015016	RIC3 acetylcholine receptor chaperone [Source:VGNC Symbol;Acc:VGNC:76872]	0.642606627	0.006047617	0.020801013
ENSMMUG00000035632	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.837306735	0.000861913	0.003873913
ENSMMUG00000049802	olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]	1.139134857	5.21E-05	0.000319169
ENSMMUG00000022682	tripartite motif containing 68 [Source:NCBI gene;Acc:717644]	0.423091802	0.000200904	0.001074888
ENSMMUG00000063820	olfactory receptor, family 52, subfamily M, member 1 [Source:NCBI gene;Acc:717723]	2.771120871	0.010859227	0.034281618
ENSMMUG00000004974	tripartite motif containing 21 [Source:VGNC Symbol;Acc:VGNC:78556]	0.708885669	0.01258204	0.038786095
ENSMMUG00000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]	1.55540674	1.31E-24	1.33E-22
ENSMMUG00000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]	1.432039785	1.42E-27	2.01E-25
ENSMMUG00000003949	cholinergic receptor nicotinic alpha 10 subunit [Source:NCBI gene;Acc:718133]	0.670905575	0.002823415	0.010841388
ENSMMUG00000003948	ADP-ribosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70024]	1.379147828	0.0020771	0.008333111
ENSMMUG00000003946	ADP-ribosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:69890]	-1.59359656	0.000660401	0.003069542
ENSMMUG00000007325	Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]	1.925654194	1.13E-09	1.78E-08
ENSMMUG00000059115		1.739381446	3.83E-06	3.08E-05
ENSMMUG00000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]	1.670578214	1.17E-09	1.84E-08
ENSMMUG00000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]	1.876979342	2.22E-25	2.45E-23
ENSMMUG00000021280	leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]	1.589982197	2.11E-10	3.78E-09
ENSMMUG00000021282	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]	1.628300133	7.14E-10	1.17E-08
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]	1.772026588	7.45E-17	3.35E-15
ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]	2.136139332	4.34E-05	0.000270761
ENSMMUG00000005423	caseinolytic mitochondrial matrix peptidase chaperone subunit B [Source:VGNC Symbol;Acc:VGNC:71375]	0.602034881	0.006407579	0.021850512
ENSMMUG00000015054	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:69844]	0.453985676	0.006266367	0.021437733
ENSMMUG00000001294	FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]	1.151050858	7.92E-05	0.000463192
ENSMMUG00000004791	pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]	1.052764881	0.001375688	0.005814125
ENSMMUG00000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]	1.264702738	1.13E-24	1.17E-22
ENSMMUG00000010321	C2 domain containing 3 centriole elongation regulator [Source:VGNC Symbol;Acc:VGNC:70375]	1.007459434	5.58E-09	7.85E-08

ENSMMUG00000017402	phosphoglucosyltransferase 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75839]	0.909770986	2.24E-06	1.87E-05
ENSMMUG00000056316		0.645491213	0.001125585	0.004883686
ENSMMUG00000013094	lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]	-1.09677607	1.61E-13	4.63E-12
ENSMMUG00000013093	uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]	1.166156696	9.52E-17	4.22E-15
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	2.178520329	7.69E-17	3.42E-15
ENSMMUG00000064190		0.820288362	0.009317999	0.030149122
ENSMMUG00000009126	solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]	-0.74991242	4.47E-05	0.000277545
ENSMMUG00000058539		0.851715525	0.005218331	0.018353813
ENSMMUG00000047594		0.965153978	3.40E-07	3.41E-06
ENSMMUG00000017529	arrestin beta 1 [Source:VGNC Symbol;Acc:VGNC:70021]	0.663407053	0.000881978	0.003953956
ENSMMUG00000000187	UV radiation resistance associated [Source:VGNC Symbol;Acc:VGNC:78751]	0.642666103	0.007990866	0.026497023
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	2.323911619	6.13E-25	6.52E-23
ENSMMUG00000062043		1.906311476	0.002257316	0.008936856
ENSMMUG00000050318	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 [Source:NCBI gene;Acc:697946]	0.474614839	0.003518321	0.013059138
ENSMMUG00000018188	glycerophosphodiester phosphodiesterase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72777]	0.833195108	0.011967335	0.037210187
ENSMMUG00000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	1.803334695	1.91E-23	1.68E-21
ENSMMUG00000018945	chloride nucleotide-sensitive channel 1A [Source:VGNC Symbol;Acc:VGNC:71261]	0.941483233	0.004285873	0.015570154
ENSMMUG00000017355	remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]	0.984054689	2.10E-05	0.000141564
ENSMMUG00000051202		1.792640731	0.013427394	0.041049128
ENSMMUG00000060971		0.842716115	0.002269133	0.008970977
ENSMMUG00000051769		0.802885042	0.000224257	0.001188946
ENSMMUG00000050245		1.920458087	1.07E-05	7.72E-05
ENSMMUG00000050119		0.684109587	1.24E-06	1.10E-05
ENSMMUG00000016540	transmembrane protein 126B [Source:VGNC Symbol;Acc:VGNC:79893]	0.516147881	0.001329925	0.005645537
ENSMMUG00000016543	CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]	0.884996667	0.001236677	0.005311462
ENSMMUG00000012449	synaptotagmin like 2 [Source:VGNC Symbol;Acc:VGNC:78123]	1.520363554	2.70E-05	0.000176422
ENSMMUG00000013045	coiled-coil domain containing 81 [Source:VGNC Symbol;Acc:VGNC:70868]	0.892083284	0.007512114	0.025111413
ENSMMUG00000013055	malic enzyme 3 [Source:VGNC Symbol;Acc:VGNC:74695]	0.932152009	0.000628722	0.002946714
ENSMMUG00000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]	1.360487318	9.96E-09	1.33E-07
ENSMMUG00000060452	FAT atypical cadherin 3 [Source:NCBI gene;Acc:695935]	0.601685405	0.011922745	0.037087989
ENSMMUG00000057627		1.029580328	0.000220612	0.001170948
ENSMMUG00000013601	chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]	0.910360142	1.18E-07	1.30E-06
ENSMMUG00000061600	V-set and transmembrane domain containing 5 [Source:NCBI gene;Acc:697779]	0.883270019	0.001548186	0.006423138

ENSMMUG0000004112	MRE11 homolog, double strand break repair nuclease [Source:VGNC Symbol;Acc:VGNC:74926]	-	0.384699645	0.006996361	0.023601148
ENSMMUG00000061391	ankyrin repeat domain 49 [Source:NCBI gene;Acc:697693]	-	1.260770939	7.30E-05	0.000430116
ENSMMUG00000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	-	2.291297521	7.55E-40	3.42E-37
ENSMMUG00000008965	piwi like RNA-mediated gene silencing 4 [Source:VGNC Symbol;Acc:VGNC:81504]	-	1.199235001	1.19E-16	5.21E-15
ENSMMUG00000009394	sestrin 3 [Source:VGNC Symbol;Acc:VGNC:77291]	-	-0.67188894	6.26E-05	0.000376045
ENSMMUG00000061815		-	0.657864748	8.65E-05	0.000500896
ENSMMUG00000016737	contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]	-	3.733798006	6.84E-06	5.18E-05
ENSMMUG00000020784	centrosomal protein 126 [Source:NCBI gene;Acc:701911]	-	1.331457274	2.51E-17	1.19E-15
ENSMMUG00000003394	cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]	-	1.495160395	3.71E-19	2.11E-17
ENSMMUG00000050759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.585347613	0.004450112	0.016049173
ENSMMUG00000057934		-	2.031744583	3.40E-13	9.34E-12
ENSMMUG00000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	-	1.556435743	1.02E-32	2.43E-30
ENSMMUG00000001800	cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]	-	1.029406365	0.000623878	0.002929887
ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	-	1.872085949	1.44E-14	4.93E-13
ENSMMUG00000004153	ATM serine/threonine kinase [Source:VGNC Symbol;Acc:VGNC:70173]	-	1.343123643	0.00118568	0.005115937
ENSMMUG00000000797	exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]	-	1.140357237	9.11E-07	8.30E-06
ENSMMUG00000052460		-	1.110501337	0.002952358	0.011256366
ENSMMUG00000062793		-	4.006269676	2.84E-10	4.98E-09
ENSMMUG00000021438	BTG anti-proliferation factor 4 [Source:VGNC Symbol;Acc:VGNC:70305]	-	0.618140052	9.80E-05	0.000560434
ENSMMUG00000030914	salt inducible kinase 2 [Source:VGNC Symbol;Acc:VGNC:82237]	-	0.925476766	0.007342044	0.024636872
ENSMMUG00000014001	protein phosphatase 2 scaffold subunit Abeta [Source:VGNC Symbol;Acc:VGNC:76375]	-	0.953846683	0.000799792	0.003648496
ENSMMUG00000014334	dopamine receptor D2 [Source:VGNC Symbol;Acc:VGNC:71989]	-	1.387485801	0.000265074	0.001381211
ENSMMUG00000050683		-	2.864097625	0.00906119	0.029454118
ENSMMUG00000051510		-	0.629434256	4.05E-08	4.86E-07
ENSMMUG00000020002	BUD13 homolog [Source:VGNC Symbol;Acc:VGNC:82112]	-	0.743885481	0.010343395	0.032890118
ENSMMUG00000057425	apolipoprotein A5 [Source:NCBI gene;Acc:696484]	-	1.232574911	0.01580759	0.047023723
ENSMMUG00000060987		-	0.694129509	2.02E-06	1.70E-05
ENSMMUG00000016128	SIK family kinase 3 [Source:VGNC Symbol;Acc:VGNC:77330]	-	0.67230773	4.12E-08	4.94E-07
ENSMMUG00000002053	SID1 transmembrane family member 2 [Source:VGNC Symbol;Acc:VGNC:77300]	-	0.609343031	0.004171375	0.01518961
ENSMMUG00000007785	beta-secretase 1 [Source:VGNC Symbol;Acc:VGNC:70215]	-	3.325954439	0.003384139	0.012621218
ENSMMUG00000007794	DS cell adhesion molecule like 1 [Source:NCBI gene;Acc:698212]	-	0.429630486	0.00257905	0.010040536
ENSMMUG00000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	-	1.493330486	1.30E-14	4.46E-13
ENSMMUG00000007620	transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]	-	-1.38588516	2.62E-06	2.17E-05
ENSMMUG00000063655	sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]	-	0.921518937	1.12E-05	8.02E-05

ENSMMUG00000061384	sodium voltage-gated channel beta subunit 2 [Source:NCBI gene;Acc:678698]	0.446769918	1.67E-05	0.000114839
ENSMMUG00000006268	junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]	0.540191041	4.31E-05	0.000269535
ENSMMUG00000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	0.977657013	7.75E-11	1.51E-09
ENSMMUG00000065091	myelin protein zero like 2 [Source:NCBI gene;Acc:699330]	0.627283321	1.17E-08	1.55E-07
ENSMMUG00000005482	lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]	1.942035299	5.71E-08	6.67E-07
ENSMMUG00000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	3.847464871	1.13E-21	8.22E-20
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	3.488452139	4.45E-42	2.15E-39
ENSMMUG00000009318	BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]	0.922104788	4.20E-09	6.08E-08
ENSMMUG00000005982	coiled-coil domain containing 84 [Source:NCBI gene;Acc:707400]	0.815356041	0.000236702	0.001246909
ENSMMUG00000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	2.6197664	3.04E-12	7.33E-11
ENSMMUG00000016894	ribosomal protein S25 [Source:NCBI gene;Acc:702593]	1.583982951	0.001330161	0.005645537
ENSMMUG00000016946	trafficking protein particle complex 4 [Source:VGNC Symbol;Acc:VGNC:79211]	1.036230975	0.000720411	0.003313324
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	1.022653408	1.24E-11	2.73E-10
ENSMMUG00000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	0.913278716	7.66E-10	1.25E-08
ENSMMUG00000014864	VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]	0.658917809	8.21E-05	0.000478505
ENSMMUG00000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.075345578	1.31E-10	2.45E-09
ENSMMUG00000014866	hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]	0.754783715	0.011687052	0.036494251
ENSMMUG00000044496	H2A histone family, member X [Source:NCBI gene;Acc:703073]	0.7924687	0.002827031	0.010849332
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	1.263387266	3.69E-18	1.95E-16
ENSMMUG00000013799	ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]	3.924464658	1.02E-09	1.63E-08
ENSMMUG00000012191	coiled-coil domain containing 153 [Source:NCBI gene;Acc:704216]	1.424744289	0.008592189	0.028230617
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	2.618971572	5.68E-10	9.42E-09
ENSMMUG00000064895		2.180609325	0.000701688	0.003239962
ENSMMUG00000022347	glutamate ionotropic receptor kainate type subunit 4 [Source:VGNC Symbol;Acc:VGNC:73279]	1.320919548	0.002171454	0.008662959
ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	1.014037265	3.66E-06	2.95E-05
ENSMMUG00000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	1.03685161	3.68E-09	5.36E-08
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	0.787021639	1.52E-06	1.32E-05
ENSMMUG00000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	1.256914285	3.14E-09	4.61E-08
ENSMMUG00000061604		2.184927483	0.012612129	0.038844692
ENSMMUG00000008474	transforming growth factor beta regulator 1 [Source:VGNC Symbol;Acc:VGNC:78239]	1.03309261	0.00117827	0.005087095
ENSMMUG00000057600	V-set and immunoglobulin domain containing 2 [Source:NCBI gene;Acc:712047]	0.651675935	0.016235982	0.048031963
ENSMMUG00000008486	endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]	0.799023368	2.04E-05	0.000138168
ENSMMUG00000057529		0.645477635	0.001299948	0.005539099
ENSMMUG00000010009	EI24 autophagy associated transmembrane protein [Source:VGNC Symbol;Acc:VGNC:72038]	0.776786614	0.000526841	0.002524911
ENSMMUG00000060925		2.799584764	0.013619242	0.041536023
ENSMMUG00000038587	prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]	3.004979688	0.00025336	0.00132619
ENSMMUG00000060291	prostate and testis expressed 3 [Source:NCBI gene;Acc:100379154]	2.745133908	0.003381939	0.012617728

ENSMMUG00000014120	sc328 [Source:NCBI gene;Acc:574167]	2.259077198	0.007151083	0.024076742
ENSMMUG00000065066	V-set and immunoglobulin domain containing 10 like 2 [Source:NCBI gene;Acc:717387]	0.692587039	3.50E-06	2.83E-05
ENSMMUG00000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	2.596613406	1.27E-07	1.38E-06
ENSMMUG00000007938	SRP receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:77885]	0.473476565	0.002934315	0.011202805
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	2.010387208	4.83E-26	5.94E-24
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.261364021	2.39E-37	8.38E-35
ENSMMUG00000063056		2.122734912	0.014536425	0.043858155
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	1.417580889	1.72E-35	5.13E-33
ENSMMUG00000060836		3.218479132	1.62E-05	0.000111751
ENSMMUG00000003144	potassium inwardly rectifying channel subfamily J member 1 [Source:VGNC Symbol;Acc:VGNC:73984]	0.309392312	0.000824955	0.003737754
ENSMMUG00000002963	Rho GTPase activating protein 32 [Source:VGNC Symbol;Acc:VGNC:69855]	2.107726372	7.78E-06	5.82E-05
ENSMMUG00000032694	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.073820717	0.001730632	0.007087806
ENSMMUG00000057813		2.993625981	3.09E-09	4.55E-08
ENSMMUG00000017555	PR/SET domain 10 [Source:VGNC Symbol;Acc:VGNC:76250]	0.659165292	1.93E-05	0.000131152
ENSMMUG00000018029	amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]	0.837330131	1.07E-07	1.18E-06
ENSMMUG00000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]	1.534530396	7.03E-17	3.17E-15
ENSMMUG00000002250	beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]	1.962633231	0.003241419	0.012156839
ENSMMUG00000009187	calcium voltage-gated channel subunit alpha1 B [Source:VGNC Symbol;Acc:VGNC:70499]	2.059872331	0.003372324	0.012597256
ENSMMUG00000019607	patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]	0.812229226	2.03E-06	1.70E-05
ENSMMUG00000001667	transmembrane protein 210 [Source:VGNC Symbol;Acc:VGNC:79945]	0.673405317	1.37E-09	2.14E-08
ENSMMUG00000021432	PAXX non-homologous end joining factor [Source:VGNC Symbol;Acc:VGNC:75686]	2.984757789	0.011914322	0.03707001
ENSMMUG00000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]	1.379884323	7.41E-09	1.01E-07
ENSMMUG00000011528	F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]	1.620015362	1.95E-06	1.64E-05
ENSMMUG00000011527	TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]	1.037795384	0.000514269	0.002471416
ENSMMUG00000005048	MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]	0.678768579	4.70E-05	0.000290531
ENSMMUG00000005042	RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]	0.706489041	0.003124739	0.01177276
ENSMMUG00000026981	EGF like domain multiple 7 [Source:VGNC Symbol;Acc:VGNC:72079]	0.642388267	0.000227379	0.001204132
ENSMMUG00000056009		1.35464618	5.30E-10	8.85E-09
ENSMMUG00000017022	notch receptor 1 [Source:VGNC Symbol;Acc:VGNC:75371]	2.066936118	0.003028465	0.011496524
ENSMMUG00000003106	SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]	1.545835066	3.37E-12	8.07E-11
ENSMMUG00000003105	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]	1.134190363	8.12E-13	2.13E-11
ENSMMUG00000003098	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]	1.535083891	1.96E-27	2.69E-25
ENSMMUG00000003081	G protein signaling modulator 1 [Source:VGNC Symbol;Acc:VGNC:72960]	0.573814412	0.000307489	0.001566828
ENSMMUG00000001409	coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]	1.258061261	3.67E-06	2.96E-05
ENSMMUG00000004885	quiescin sulfhydryl oxidase 2 [Source:VGNC Symbol;Acc:VGNC:76568]	2.011005095	0.002775132	0.010679385
ENSMMUG00000000276	NACC family member 2 [Source:VGNC Symbol;Acc:VGNC:75013]	3.579471499	1.53E-05	0.000106092
ENSMMUG00000016827	UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]	2.538028619	1.49E-09	2.31E-08
ENSMMUG00000021496	potassium sodium-activated channel subfamily T member 1 [Source:VGNC Symbol;Acc:VGNC:73856]	1.296948041	4.72E-08	5.60E-07

ENSMMUG00000055942	spermatogenesis and oogenesis specific basic helix-loop-helix 1 [Source:NCBI gene;Acc:721833]	1.045883129	0.001642549	0.006770566
ENSMMUG00000012147	collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]	2.494058481	6.88E-07	6.45E-06
ENSMMUG00000051925		2.335639296	4.06E-18	2.13E-16
ENSMMUG00000064229		1.872724952	1.67E-07	1.77E-06
ENSMMUG00000005463	bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]	0.588780645	0.001374729	0.005811825
ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	3.885437984	7.50E-14	2.29E-12
ENSMMUG00000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]	3.353119399	3.92E-14	1.26E-12
ENSMMUG00000022348	surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]	0.941215951	3.49E-06	2.82E-05
ENSMMUG00000001267	general transcription factor IIIC subunit 5 [Source:VGNC Symbol;Acc:VGNC:73319]	0.573336068	0.010242081	0.032612329
ENSMMUG00000009918	TSC complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:78658]	0.511982164	0.004422956	0.015968875
ENSMMUG00000018468	senataxin [Source:VGNC Symbol;Acc:VGNC:77356]	0.521980594	0.003443794	0.012819834
ENSMMUG00000009976	uridine-cytidine kinase 1 [Source:VGNC Symbol;Acc:VGNC:78967]	0.4189318	0.010662563	0.033744328
ENSMMUG00000009973	proline rich coiled-coil 2B [Source:VGNC Symbol;Acc:VGNC:76327]	1.639333741	0.000718572	0.003307033
ENSMMUG00000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	3.334871542	9.21E-10	1.48E-08
ENSMMUG00000036223		2.830200007	0.000146301	0.000806753
ENSMMUG00000008249	far upstream element binding protein 3 [Source:NCBI gene;Acc:722470]	0.676033861	0.000820425	0.003723244
ENSMMUG00000047733	hemicentin 2 [Source:NCBI gene;Acc:720622]	0.328745964	0.002038652	0.008198457
ENSMMUG00000061477		0.439058424	0.003987534	0.014592169
ENSMMUG00000003797	ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]	2.527840558	3.44E-12	8.21E-11
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	1.949954802	2.55E-13	7.10E-12
ENSMMUG00000055560		1.190990303	0.003147946	0.011844284
ENSMMUG00000051852	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.215188645	0.000913765	0.004068416
ENSMMUG00000011767	carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]	0.979465562	6.62E-06	5.03E-05
ENSMMUG00000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	1.134068159	2.74E-12	6.67E-11
ENSMMUG00000012163	GTPase activating Rap/RanGAP domain like 3 [Source:VGNC Symbol;Acc:VGNC:72785]	-0.4503304	0.006185251	0.021191247
ENSMMUG00000050175	zinc finger and BTB domain containing 34 [Source:NCBI gene;Acc:701665]	0.746495875	0.01112684	0.035000375
ENSMMUG00000052476	zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]	0.569580697	0.000468337	0.002276981
ENSMMUG00000013763	PBX homeobox 3 [Source:VGNC Symbol;Acc:VGNC:82202]	0.393718508	0.003407796	0.012699315
ENSMMUG00000016826	MAPK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:74531]	0.662302243	0.007781997	0.025896285
ENSMMUG00000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]	0.893757918	1.27E-10	2.39E-09
ENSMMUG00000005217	heat shock protein family A (Hsp70) member 5 [Source:NCBI gene;Acc:703193]	0.6286686	0.003008606	0.011437093
ENSMMUG00000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]	0.887123161	9.60E-07	8.70E-06
ENSMMUG00000020549	protein phosphatase 6 catalytic subunit [Source:NCBI gene;Acc:703658]	1.015266153	3.41E-05	0.0002183
ENSMMUG00000051739	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.864931062	0.00846359	0.02786031
ENSMMUG00000011183	olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]	-1.80615474	1.82E-05	0.000124213
ENSMMUG00000033102	mml-mir-181b-2 [Source:miRBase;Acc:MI0007646]	2.384203772	0.00034566	0.001732434
ENSMMUG00000026876	mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]	3.266656698	8.89E-06	6.54E-05
ENSMMUG00000014111	nuclear receptor subfamily 5 group A member 1 [Source:VGNC Symbol;Acc:VGNC:75520]	0.454243157	0.000637275	0.002975871

ENSMMUG00000014110	adhesion G protein-coupled receptor D2 [Source:VGNC Symbol;Acc:VGNC:69462]	0.730590831	5.77E-13	1.55E-11
ENSMMUG00000054736		3.867903107	1.73E-11	3.73E-10
ENSMMUG00000000496	zinc finger and BTB domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79047]	-3.46180961	0.00235774	0.009276822
ENSMMUG00000063639		1.561599098	2.30E-07	2.37E-06
ENSMMUG00000038944		2.765724961	2.84E-47	1.99E-44
		-		
ENSMMUG00000058731	olfactory receptor 1B1 [Source:NCBI gene;Acc:699905]	0.334845197	0.00615663	0.021108662
ENSMMUG00000043396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.96962818	2.04E-07	2.13E-06
ENSMMUG00000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	2.89468348	5.70E-12	1.32E-10
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	2.200447377	2.02E-24	2.00E-22
ENSMMUG00000058237		0.87322714	1.40E-07	1.51E-06
ENSMMUG00000013105	astrotactin 2 [Source:VGNC Symbol;Acc:VGNC:70087]	0.752347488	0.000382065	0.001891845
ENSMMUG00000013107	tripartite motif containing 32 [Source:VGNC Symbol;Acc:VGNC:79032]	0.427568418	0.005846688	0.020196237
ENSMMUG00000013099	pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]	1.817298358	9.52E-10	1.52E-08
ENSMMUG00000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]	0.73847642	0.000468451	0.002276981
ENSMMUG00000041301	TNF superfamily member 8 [Source:NCBI gene;Acc:702944]	-0.64962743	0.00958903	0.030855201
		-		
ENSMMUG00000062461	chromosome 15 C9orf43 homolog [Source:NCBI gene;Acc:704968]	3.537914343	0.002413304	0.009476829
		-		
ENSMMUG00000044537	DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]	3.118524099	1.97E-05	0.00013348
		-		
ENSMMUG00000031965	aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]	2.104183056	6.41E-05	0.000383618
		-		
ENSMMUG00000057031		2.709263405	1.09E-05	7.83E-05
		-		
ENSMMUG00000007187	haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]	3.669661904	6.60E-06	5.03E-05
ENSMMUG00000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	-3.77081983	2.36E-11	4.95E-10
ENSMMUG00000000464	polypyrimidine tract binding protein 3 [Source:VGNC Symbol;Acc:VGNC:76244]	-0.51893302	0.007289232	0.024494823
		-		
ENSMMUG00000021097	sushi domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78207]	1.105711325	0.001985249	0.008004356
ENSMMUG00000000695	transmembrane protein 245 [Source:VGNC Symbol;Acc:VGNC:78933]	0.464617705	0.000195498	0.001049569
		-		
ENSMMUG00000000690	catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]	0.899761657	0.000198227	0.001062588
		-		
ENSMMUG00000053648	actin binding transcription modulator [Source:NCBI gene;Acc:710486]	1.321750722	1.16E-06	1.03E-05
ENSMMUG00000019354	actin like 7B [Source:VGNC Symbol;Acc:VGNC:69421]	1.740259189	0.000359561	0.001791162
ENSMMUG00000023797	post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]	1.778716321	2.42E-05	0.000160435
ENSMMUG00000052330	mitochondrial ribosomal protein L50 [Source:NCBI gene;Acc:713923]	2.496290309	0.007300159	0.024525667
		-		
ENSMMUG00000009775	caveolae associated protein 4 [Source:NCBI gene;Acc:714379]	0.970867145	1.30E-11	2.84E-10
		-		
ENSMMUG00000057137		0.903194863	4.80E-05	0.000295861
		-		
ENSMMUG00000011410	nuclear receptor subfamily 4 group A member 3 [Source:VGNC Symbol;Acc:VGNC:75519]	0.910123178	0.009100948	0.029576499
ENSMMUG00000058899		3.391480499	0.00874315	0.028632693
ENSMMUG00000010661	SEC61 translocon subunit beta [Source:NCBI gene;Acc:717815]	-0.78050202	3.47E-05	0.000221432
ENSMMUG00000010662	ALG2 alpha-1,3/1,6-mannosyltransferase [Source:VGNC Symbol;Acc:VGNC:69672]	0.949492504	0.00099234	0.004382897
ENSMMUG00000001304	transforming growth factor beta receptor 1 [Source:VGNC Symbol;Acc:VGNC:78337]	0.487926403	0.006635581	0.022541366
ENSMMUG00000009831	TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]	-1.59813596	8.98E-05	0.000518305
		-		
ENSMMUG00000002853	coronin 2A [Source:VGNC Symbol;Acc:VGNC:71451]	0.700963925	0.000228033	0.001206229
		-		
ENSMMUG00000047381	DDB1 and CUL4 associated factor 10 [Source:NCBI gene;Acc:716256]	0.723644293	2.77E-06	2.27E-05
ENSMMUG00000017886	F-box protein 10 [Source:NCBI gene;Acc:718443]	-0.88261549	0.000626349	0.002937554

ENSMMUG00000017892	RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]	0.905109982	0.000441591	0.002159145
ENSMMUG00000007421	zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]	0.389824133	0.004387102	0.015868026
ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	4.796790402	7.52E-13	1.98E-11
ENSMMUG00000010213	GLI pathogenesis related 2 [Source:VGNC Symbol;Acc:VGNC:81414]	3.368045875	0.001884772	0.007656476
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	1.525236661	3.06E-26	3.87E-24
ENSMMUG00000059406	RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]	2.442777434	3.91E-06	3.13E-05
ENSMMUG00000016331	glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]	3.933930908	5.15E-06	4.00E-05
ENSMMUG00000031856	talin 1 [Source:VGNC Symbol;Acc:VGNC:78371]	0.772889196	1.31E-06	1.15E-05
ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	2.085389178	1.74E-27	2.44E-25
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.894257334	5.14E-30	9.12E-28
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	1.919219724	2.09E-24	2.05E-22
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	1.951604333	3.46E-23	2.94E-21
ENSMMUG00000038988	RNase MRP [Source:RFAM;Acc:RF00030]	2.788676988	0.001595332	0.006605061
ENSMMUG00000016316	testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]	1.358245901	1.22E-05	8.68E-05
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	3.371339952	1.16E-34	3.16E-32
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	0.899345281	1.83E-06	1.55E-05
ENSMMUG00000020190	valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]	1.467166083	1.46E-07	1.57E-06
ENSMMUG00000061896		1.637408853	4.63E-09	6.64E-08
ENSMMUG00000044048	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.52721175	9.34E-06	6.83E-05
ENSMMUG00000022895	DnaJ heat shock protein family (Hsp40) member B5 [Source:NCBI gene;Acc:699081]	0.413763504	5.11E-05	0.000313685
ENSMMUG00000031826	ubiquitin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78686]	1.239449622	0.007187467	0.024193434
ENSMMUG00000058149		1.006497241	0.00310814	0.011725974
ENSMMUG00000017458	DDB1 and CUL4 associated factor 12 [Source:VGNC Symbol;Acc:VGNC:71678]	1.125382233	0.001187973	0.005124254
ENSMMUG00000000389	nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]	0.834680076	9.00E-05	0.000519514
ENSMMUG00000003314	aquaporin 3 (Gill blood group) [Source:NCBI gene;Acc:702721]	0.999752853	2.92E-05	0.000189571
ENSMMUG00000001545	aquaporin 7 [Source:NCBI gene;Acc:702836]	2.405557144	1.20E-14	4.15E-13
ENSMMUG00000038377		0.321342308	0.010070363	0.032167815
ENSMMUG00000007724	aprataxin [Source:VGNC Symbol;Acc:VGNC:69838]	0.945826792	4.70E-09	6.72E-08
ENSMMUG00000012442	DExD/H-box helicase 58 [Source:VGNC Symbol;Acc:VGNC:71672]	0.274950985	0.008492399	0.02793288
ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	1.381277804	1.08E-10	2.05E-09
ENSMMUG00000061449	equatorin [Source:NCBI gene;Acc:707334]	1.732832691	0.001081481	0.004721546
ENSMMUG00000054514	interferon alpha 6 [Source:NCBI gene;Acc:106995851]	3.129632689	0.010838626	0.034224286
ENSMMUG00000010959	kelch like family member 9 [Source:VGNC Symbol;Acc:VGNC:74080]	2.636730212	0.00349179	0.012974396
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	2.125847957	4.63E-79	3.24E-75
ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	3.795592005	1.90E-45	1.27E-42
ENSMMUG00000044658	ADAMTS like 1 [Source:NCBI gene;Acc:712844]	0.587208952	0.002543451	0.009918468
ENSMMUG00000013466	tetratricopeptide repeat domain 39B [Source:VGNC Symbol;Acc:VGNC:79402]	0.787996444	1.70E-12	4.24E-11

ENSMMUG00000052889	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.933745306	5.97E-06	4.59E-05
ENSMMUG00000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.167003782	2.45E-07	2.52E-06
ENSMMUG00000014697	nuclear factor I B [Source:VGNC Symbol;Acc:VGNC:75335]	-	2.047307965	3.24E-05	0.000208197
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	-	1.044540371	5.30E-12	1.24E-10
ENSMMUG00000050923		-	1.161825307	6.33E-08	7.34E-07
ENSMMUG00000002175	TPD52 like 3 [Source:HGNC Symbol;Acc:HGNC:23382]	-	0.658363466	0.002954427	0.011258133
ENSMMUG00000021344	interleukin 33 [Source:VGNC Symbol;Acc:VGNC:73606]	-	-0.70531491	0.005281677	0.018539413
ENSMMUG00000005469	endoplasmic reticulum metalloproteinase 1 [Source:VGNC Symbol;Acc:VGNC:72322]	-	0.293506312	0.009336798	0.030202981
ENSMMUG00000006197	plasminogen receptor with a C-terminal lysine [Source:VGNC Symbol;Acc:VGNC:76098]	-	1.111868124	2.03E-08	2.59E-07
ENSMMUG00000047971	relaxin 2 [Source:NCBI gene;Acc:693473]	-	0.486588883	0.016294639	0.048134057
ENSMMUG00000052972		-	0.496885285	0.001312578	0.005582735
ENSMMUG00000065127	insulin like 6 [Source:NCBI gene;Acc:693735]	-	0.384817704	0.000573071	0.002724125
ENSMMUG00000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	-	2.78284422	7.22E-44	4.22E-41
ENSMMUG00000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	-	3.381653292	4.58E-09	6.59E-08
ENSMMUG00000057520		-	3.306492743	0.000235085	0.001239786
ENSMMUG00000058311		-	2.378403371	1.11E-10	2.09E-09
ENSMMUG00000000802	regulatory factor X3 [Source:VGNC Symbol;Acc:VGNC:76908]	-	1.719128604	2.61E-05	0.000171434
ENSMMUG00000056693		-	0.539095308	1.20E-07	1.31E-06
ENSMMUG00000015093	very low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:78774]	-	0.291865315	0.009279284	0.030051594
ENSMMUG00000057073		-	2.470363106	8.98E-06	6.60E-05
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	-	1.458664857	8.53E-10	1.38E-08
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	-	0.704810501	1.05E-07	1.17E-06
ENSMMUG00000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	2.047814207	1.45E-09	2.24E-08
ENSMMUG00000003780	tight junction protein 2 [Source:NCBI gene;Acc:699586]	-	3.393730037	0.00222794	0.008845527
ENSMMUG00000011401	amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]	-	2.032285375	3.80E-05	0.000240881
ENSMMUG00000008346	structural maintenance of chromosomes 5 [Source:NCBI gene;Acc:702219]	-	2.724634517	0.000905259	0.004040246
ENSMMUG00000063718	Kruppel like factor 9 [Source:NCBI gene;Acc:700585]	-	2.464087695	0.001926631	0.007801661
ENSMMUG00000012667	annexin A1 [Source:VGNC Symbol;Acc:VGNC:69944]	-	0.403998008	8.53E-05	0.000494352
ENSMMUG00000056840		-	1.75667797	1.71E-23	1.53E-21
ENSMMUG00000023117	neurotrophic receptor tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:75541]	-	0.758953693	1.66E-09	2.55E-08
ENSMMUG00000059207		-	-2.23717358	0.003689828	0.013641564
ENSMMUG00000060761		-	1.487410242	1.19E-25	1.36E-23
ENSMMUG00000054211		-	2.236839797	1.74E-05	0.000119589
ENSMMUG00000057499		-	2.492245033	9.18E-13	2.38E-11
ENSMMUG00000033550		-	3.099774086	0.000603606	0.002857089
ENSMMUG00000049479		-	2.824666871	0.002692966	0.010403156
ENSMMUG00000053778		-	0.889971854	0.001460812	0.006118569

ENSMMUG00000007223	DIRAS family GTPase 2 [Source:VGNC Symbol;Acc:VGNC:71673]	0.493769944	0.000100695	0.000574471
ENSMMUG00000001748	spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]	2.50361541	4.25E-10	7.22E-09
ENSMMUG00000020009	receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]	0.849317447	0.00014084	0.000779399
ENSMMUG00000060533		1.133497542	1.09E-13	3.20E-12
ENSMMUG00000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	1.280805259	5.61E-10	9.31E-09
		-		
ENSMMUG00000009493	family with sequence similarity 120A [Source:NCBI gene;Acc:717459]	1.544265135	1.19E-08	1.57E-07
		-		
ENSMMUG00000002517	protein tyrosine phosphatase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76567]	1.185683215	6.82E-05	0.000404817
		-		
ENSMMUG00000060049		0.878444507	0.004109334	0.014990946
		-		
ENSMMUG00000050773		1.116791588	5.93E-06	4.57E-05
ENSMMUG00000005997	cell division cycle 14B [Source:NCBI gene;Acc:710300]	3.125288286	5.59E-07	5.34E-06
		-		
ENSMMUG00000019423	zinc finger protein 2 [Source:NCBI gene;Acc:703864]	2.436639698	0.012410333	0.038315741
		-		
ENSMMUG00000060932	zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]	1.253340479	3.73E-06	3.00E-05
		-		
ENSMMUG00000049314	dual specificity phosphatase 2 [Source:NCBI gene;Acc:718442]	2.830996238	0.001676295	0.006899525
		-		
ENSMMUG00000053389		0.870791861	3.52E-05	0.000224175
		-		
ENSMMUG00000057143	transmembrane protein 127 [Source:NCBI gene;Acc:705069]	1.509376312	4.55E-10	7.68E-09
ENSMMUG00000015515	REV1 DNA directed polymerase [Source:NCBI gene;Acc:709475]	0.493251103	0.002636476	0.010221211
ENSMMUG00000057336		0.381034874	0.001001108	0.004411861
		-		
ENSMMUG00000001390	NCK adaptor protein 2 [Source:VGNC Symbol;Acc:VGNC:75142]	1.333132626	0.000275688	0.001426561
ENSMMUG00000058257		0.82443821	4.51E-06	3.57E-05
		-		
ENSMMUG00000055529	sulfotransferase family 1C member 4 [Source:NCBI gene;Acc:693903]	4.251595672	9.01E-06	6.62E-05
ENSMMUG00000021019	E3 SUMO-protein ligase RanBP2 [Source:NCBI gene;Acc:694823]	3.081311634	0.002136514	0.008543012
		-		
ENSMMUG00000060346		2.023924508	7.02E-07	6.57E-06
		-		
ENSMMUG00000002231	transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]	0.644799432	0.002218487	0.008818964
		-		
ENSMMUG00000044163	zinc finger CCCH-type containing 8 [Source:NCBI gene;Acc:698828]	0.509095713	0.001731736	0.007088188
		-		
ENSMMUG00000059850	immunoglobulin kappa variable 1-9 [Source:NCBI gene;Acc:106993071]	1.514741913	0.000706412	0.003258531
		-		
ENSMMUG00000050630		1.971738744	0.002575164	0.010028192
		-		
ENSMMUG00000051042		1.624578835	1.30E-24	1.33E-22
ENSMMUG00000046169		3.669103954	7.18E-50	6.71E-47
ENSMMUG00000025625	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.168102363	0.00508729	0.017951452
ENSMMUG00000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	1.637776857	1.31E-13	3.81E-12
ENSMMUG00000055639		0.853653445	0.002478393	0.009694421
ENSMMUG00000000291	leucine rich repeat transmembrane neuronal 1 [Source:VGNC Symbol;Acc:VGNC:74315]	0.870990238	8.42E-05	0.000488655
		-		
ENSMMUG00000062818	regenerating islet-derived protein 3-alpha [Source:NCBI gene;Acc:716890]	0.975575864	0.001902544	0.007719727
		-		
ENSMMUG00000040046	lithostathine-1-alpha [Source:NCBI gene;Acc:711810]	1.343124021	0.005918235	0.020396022
		-		
ENSMMUG00000049292	regenerating islet-derived 1 alpha [Source:NCBI gene;Acc:711892]	3.122396981	0.008956423	0.029181209

ENSMMUG00000054863		-	1.596959439	0.001333357	0.005657386
ENSMMUG00000056785		-	0.802300764	0.000406245	0.002001679
ENSMMUG00000056765		-	0.809828137	4.30E-07	4.22E-06
ENSMMUG00000064788		-	0.727965408	0.006783761	0.02294469
ENSMMUG00000064821		-	0.979203523	1.43E-05	9.98E-05
ENSMMUG00000062747		-	0.544353935	2.04E-06	1.71E-05
ENSMMUG00000023758	mitochondrial ribosomal protein L19 [Source:VGNC Symbol;Acc:VGNC:74743]	-	-0.42366028	0.001299596	0.005539099
ENSMMUG00000048322	eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]	-	1.033825309	0.005055812	0.017871855
ENSMMUG00000051843		-	0.983693631	5.50E-07	5.27E-06
ENSMMUG00000053587		-	2.284321901	0.014795074	0.044435923
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	-	2.959796509	1.52E-24	1.53E-22
ENSMMUG00000011845	hexokinase 2 [Source:VGNC Symbol;Acc:VGNC:73475]	-	1.172231216	7.37E-06	5.54E-05
ENSMMUG00000058044		-	0.867004366	1.96E-06	1.65E-05
ENSMMUG00000008396	methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]	-	1.035353086	3.41E-11	6.93E-10
ENSMMUG00000002096	N-acetylglucosamine kinase [Source:VGNC Symbol;Acc:VGNC:74977]	-	0.621283583	0.000182409	0.000985333
ENSMMUG00000002093	testis expressed 261 [Source:NCBI gene;Acc:703863]	-	1.436752885	6.63E-16	2.67E-14
ENSMMUG00000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	-	1.383831898	1.90E-08	2.43E-07
ENSMMUG00000041775	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.399652227	0.006578863	0.022375794
ENSMMUG00000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	-	1.444257588	4.03E-16	1.69E-14
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	-	2.414457537	8.08E-06	6.01E-05
ENSMMUG00000059700		-	2.663170228	0.000305832	0.00156009
ENSMMUG00000020852	folliculogenesis specific bHLH transcription factor [Source:VGNC Symbol;Acc:VGNC:72563]	-	3.679621612	0.015421944	0.046022968
ENSMMUG00000010592	adducin 2 [Source:VGNC Symbol;Acc:VGNC:69529]	-	1.986902294	0.000117603	0.000660983
ENSMMUG00000063699		-	3.206829906	0.000208183	0.00111002
ENSMMUG00000064749		-	1.315244904	0.006287066	0.021503299
ENSMMUG00000007868	AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]	-	-0.98494309	4.09E-07	4.03E-06
ENSMMUG00000049539		-	1.307800363	4.47E-08	5.32E-07
ENSMMUG00000013797	glutamine--fructose-6-phosphate transaminase 1 [Source:VGNC Symbol;Acc:VGNC:72915]	-	0.279176836	0.001006115	0.004432533
ENSMMUG00000017209	C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]	-	1.588123483	0.003270975	0.012248032
ENSMMUG00000047067	SERTA domain containing 2 [Source:NCBI gene;Acc:696216]	-	0.645060583	0.002763674	0.010638211
ENSMMUG00000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	-	1.209578538	7.34E-12	1.68E-10
ENSMMUG00000008772	VPS54 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:79159]	-	0.390309879	0.000592714	0.00280988
ENSMMUG00000008770	UDP-glucose pyrophosphorylase 2 [Source:VGNC Symbol;Acc:VGNC:78712]	-	0.669910871	0.000111663	0.000630626
ENSMMUG00000006163	malate dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:74690]	-	0.574388327	6.35E-05	0.000380601
ENSMMUG00000006941	exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]	-	1.109674452	1.11E-10	2.09E-09
ENSMMUG00000010834	REL proto-oncogene, NF-kB subunit [Source:VGNC Symbol;Acc:VGNC:76892]	-	0.340887732	0.004051845	0.01479277

ENSMMUG0000004993		-	0.401884752	7.26E-07	6.79E-06
ENSMMUG0000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	-	3.521645141	8.87E-06	6.53E-05
ENSMMUG0000007001	protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]	-	4.587824947	1.63E-05	0.000112467
ENSMMUG0000007000	cilia and flagella associated protein 36 [Source:VGNC Symbol;Acc:VGNC:71142]	-	2.854316264	0.012301896	0.038047968
ENSMMUG00000054164		-	0.631701098	0.00081426	0.003698998
ENSMMUG0000008104	proteasome activator subunit 4 [Source:VGNC Symbol;Acc:VGNC:76295]	-	0.334006826	0.010013022	0.032013819
ENSMMUG0000008105	G protein-coupled receptor 75 [Source:VGNC Symbol;Acc:VGNC:73143]	-	0.375708032	0.005882822	0.020298922
ENSMMUG00000062091		-	3.60168096	2.95E-12	7.14E-11
ENSMMUG00000065301		-	0.903076017	8.53E-07	7.83E-06
ENSMMUG00000061344		-	-1.07613936	0.000796813	0.00363609
ENSMMUG00000052169	potassium two pore domain channel subfamily K member 12 [Source:NCBI gene;Acc:715556]	-	-3.6112188	5.25E-05	0.000321181
ENSMMUG00000053577		-	3.434923537	3.23E-13	8.92E-12
ENSMMUG0000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	-	2.914403491	6.15E-15	2.21E-13
ENSMMUG00000059300		-	0.570363275	0.005639888	0.01958112
ENSMMUG00000014425	protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]	-	0.621588903	0.004450919	0.016049173
ENSMMUG00000054734		-	-0.77233174	0.000506119	0.002438702
ENSMMUG00000023752	SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]	-	0.977292108	0.001096605	0.00478162
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	-	0.873020831	7.24E-09	9.95E-08
ENSMMUG00000006311	prolyl endopeptidase like [Source:VGNC Symbol;Acc:VGNC:76346]	-	0.898085847	4.47E-08	5.32E-07
ENSMMUG00000006310	solute carrier family 3 member 1 [Source:VGNC Symbol;Acc:VGNC:77462]	-	0.951022792	0.00042784	0.002099964
ENSMMUG00000051072		-	0.936195865	1.91E-13	5.40E-12
ENSMMUG00000019841	leucine rich pentatricopeptide repeat containing [Source:VGNC Symbol;Acc:VGNC:82177]	-	0.537747436	0.015999811	0.04748473
ENSMMUG00000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	-	1.16930341	8.46E-13	2.21E-11
ENSMMUG00000062474	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.987227872	0.00152231	0.006338286
ENSMMUG00000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	-	1.084353455	4.15E-10	7.07E-09
ENSMMUG00000025150	Y RNA [Source:RFAM;Acc:RF00019]	-	2.924172451	0.010800089	0.034148738
ENSMMUG00000000642	THADA armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:79185]	-	0.34838122	0.005503771	0.019198852
ENSMMUG00000063947	oxoeicosanoid receptor 1 [Source:NCBI gene;Acc:713039]	-	0.785889758	0.000291461	0.00149573
ENSMMUG00000020744	metastasis associated 1 family member 3 [Source:VGNC Symbol;Acc:VGNC:74814]	-	0.729458045	0.000183922	0.000993124
ENSMMUG00000056008		-	0.708771266	8.14E-10	1.32E-08
ENSMMUG00000055395	Y RNA [Source:RFAM;Acc:RF00019]	-	0.988803251	0.001916169	0.007770514
ENSMMUG00000043458	transmembrane protein 178A [Source:NCBI gene;Acc:714010]	-	1.097543432	5.20E-06	4.04E-05
ENSMMUG00000056330		-	1.576565574	2.71E-05	0.000176794
ENSMMUG00000013901	mitogen-activated protein kinase kinase kinase 3 [Source:VGNC Symbol;Acc:VGNC:81466]	-	0.698212403	0.004575303	0.016442716
ENSMMUG00000020575	SOS Ras/Rac guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:77837]	-	0.471109322	0.002267085	0.008965409
ENSMMUG00000060562		-	0.759134487	0.004352088	0.015773929
ENSMMUG00000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]	-	0.850548768	1.49E-06	1.30E-05
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	-	1.518764319	3.31E-18	1.76E-16
ENSMMUG00000016442	glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]	-	2.218434329	8.92E-05	0.000515494

ENSMMUG00000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	2.035193196	1.35E-10	2.52E-09
ENSMMUG00000016434	NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]	2.373884836	1.90E-08	2.44E-07
ENSMMUG000000053593		-	-	-
ENSMMUG000000021436	latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]	0.744312328	0.002741557	0.010564676
ENSMMUG000000055130		1.511028888	2.30E-09	3.46E-08
ENSMMUG000000021691	spastin [Source:VGNC Symbol;Acc:VGNC:77857]	-	-	-
ENSMMUG000000058351		0.471119662	0.007096601	0.023910531
ENSMMUG000000048513	tudor domain containing 15 [Source:NCBI gene;Acc:703066]	-	-	-
ENSMMUG00000007692	apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]	0.987513249	6.49E-06	4.96E-05
ENSMMUG00000003355	lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]	0.48539423	0.000629367	0.002948749
ENSMMUG000000050446	growth differentiation factor 7 [Source:NCBI gene;Acc:702462]	-	-	-
ENSMMUG000000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	0.749897819	0.000841308	0.00380202
ENSMMUG000000064216		-	-	-
ENSMMUG000000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	1.121584865	2.69E-16	1.14E-14
ENSMMUG000000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	0.631275957	0.000879287	0.003944413
ENSMMUG000000040529	visinin like 1 [Source:NCBI gene;Acc:699459]	0.600992792	0.001855619	0.007548983
ENSMMUG000000052363	MYCN proto-oncogene, bHLH transcription factor [Source:NCBI gene;Acc:698699]	1.416645337	1.66E-10	3.05E-09
ENSMMUG000000004215	LRAT domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74321]	-2.87953654	1.41E-05	9.87E-05
ENSMMUG000000052377		-	-	-
ENSMMUG000000056755		3.291792004	8.57E-09	1.15E-07
ENSMMUG000000020249	growth regulating estrogen receptor binding 1 [Source:VGNC Symbol;Acc:VGNC:73227]	-	-	-
ENSMMUG000000023225	E2F transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:72027]	5.855492656	1.75E-13	4.99E-12
ENSMMUG000000059188		-	-	-
ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	3.282479784	0.000312272	0.001588317
ENSMMUG00000060435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.360074903	0.003636747	0.013470179
ENSMMUG000000022785	solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]	-	-	-
ENSMMUG00000064867	chromosome 13 C2orf50 homolog [Source:NCBI gene;Acc:708351]	2.192974082	0.000302704	0.001546382
ENSMMUG00000063262		-	-	-
ENSMMUG00000052047		1.807919939	6.37E-12	1.47E-10
ENSMMUG000000022879	EARP complex and GARP complex interacting protein 1 [Source:NCBI gene;Acc:707650]	1.512211649	0.002118149	0.008484092
ENSMMUG000000051814		0.357341569	0.006909468	0.023336097
ENSMMUG000000009310	myelin transcription factor 1 like [Source:NCBI gene;Acc:706914]	0.474161323	0.00165725	0.006829156
ENSMMUG000000009660	syntrophin gamma 2 [Source:VGNC Symbol;Acc:VGNC:77694]	1.962291007	8.12E-07	7.50E-06
ENSMMUG000000061533		2.474104096	4.67E-18	2.38E-16
ENSMMUG000000050543		2.28884471	9.31E-05	0.000535614
ENSMMUG000000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	1.441018448	0.01165743	0.036432391
ENSMMUG000000038858		-	-	-
ENSMMUG000000022914	RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]	1.767658214	0.002457719	0.009635055
ENSMMUG000000009119	modulator of VRAC current 1 [Source:VGNC Symbol;Acc:VGNC:74787]	-	-	-
ENSMMUG000000011278	cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]	0.936986836	7.29E-09	1.00E-07
		1.836555351	2.45E-24	2.36E-22
		-	-	-
		2.705986638	0.000319196	0.001618735
		0.638637379	0.001280078	0.005466058
		-0.75620651	2.10E-05	0.00014133
		-	-	-
		0.627038484	0.000368925	0.001832604
		2.889590768	1.10E-25	1.28E-23
		2.533237677	8.02E-13	2.11E-11
		3.128334162	1.71E-19	1.00E-17
		0.544811864	3.26E-05	0.000209117
		0.687338146	0.000805124	0.003668049
		0.263396474	0.001023421	0.004503115
		0.537160988	8.72E-06	6.42E-05

ENSMMUG00000011273	ALG12 alpha-1,6-mannosyltransferase [Source:VGNC Symbol;Acc:VGNC:69637]	0.848210118	0.010392419	0.033023542
ENSMMUG00000056186		1.202571577	0.001242723	0.005334161
ENSMMUG00000020993	cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]	1.653496887	9.32E-06	6.82E-05
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	1.926811533	1.68E-11	3.62E-10
ENSMMUG00000057898		0.605480534	0.005589196	0.019429176
ENSMMUG00000023003	family with sequence similarity 118 member A [Source:VGNC Symbol;Acc:VGNC:72265]	0.43656187	0.005238238	0.018419209
ENSMMUG00000031000	Rho GTPase activating protein 8 [Source:NCBI gene;Acc:716745]	3.732118182	5.45E-07	5.23E-06
ENSMMUG00000065099		2.998270473	1.63E-16	7.05E-15
ENSMMUG00000064395		0.686447764	6.63E-05	0.000395079
ENSMMUG00000005769	EF-hand calcium binding domain 6 [Source:VGNC Symbol;Acc:VGNC:72092]	0.830718441	6.65E-05	0.00039571
ENSMMUG00000008106	solute carrier family 25 member 17 [Source:NCBI gene;Acc:705547]	0.718840768	0.000436093	0.002135986
ENSMMUG00000056662		1.083065374	2.50E-05	0.00016468
ENSMMUG00000012101	synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]	0.955110587	9.62E-05	0.000550882
ENSMMUG00000048395	chromobox 6 [Source:NCBI gene;Acc:702133]	3.814661366	0.000445153	0.002175801
ENSMMUG00000004868	dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]	3.356965897	0.012622066	0.038866761
ENSMMUG00000007277	GTP binding protein 1 [Source:VGNC Symbol;Acc:VGNC:73320]	-1.06456534	0.010585177	0.033529691
ENSMMUG00000012467	family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]	0.876372995	0.001434027	0.006022571
ENSMMUG00000049788		-1.69189456	0.000128374	0.000717208
ENSMMUG00000006987	RNA polymerase II subunit F [Source:NCBI gene;Acc:699566]	0.371302112	0.00089752	0.004013368
ENSMMUG00000019785	eukaryotic translation initiation factor 3 subunit L [Source:NCBI gene;Acc:699189]	1.352258848	0.003124285	0.01177276
ENSMMUG00000015258	glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]	2.376563271	0.00245096	0.009611244
ENSMMUG00000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	0.713679404	1.83E-06	1.56E-05
ENSMMUG00000003005	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]	4.756211246	1.61E-06	1.39E-05
ENSMMUG00000052785	extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]	3.804705994	0.000374578	0.001857393
ENSMMUG00000052038		1.743899123	0.009455707	0.030524257
ENSMMUG00000000151	transmembrane serine protease 6 [Source:VGNC Symbol;Acc:VGNC:79038]	0.520529265	3.53E-05	0.000224611
ENSMMUG00000058352		1.325906864	8.33E-05	0.000483643
ENSMMUG00000012350	mercaptopyruvate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:74922]	0.82377668	0.00772032	0.025733787
ENSMMUG00000012349	thiosulfate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:78664]	2.144691339	0.00285756	0.010939549
ENSMMUG00000014986	testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]	1.060167943	3.36E-08	4.11E-07
ENSMMUG00000008160	neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]	1.563409089	0.000392851	0.001942508
ENSMMUG00000055820		1.862526929	9.89E-05	0.000564873
ENSMMUG00000008778	parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]	1.164577234	1.57E-06	1.36E-05
ENSMMUG00000060967		0.822133193	0.000879688	0.003944953
ENSMMUG00000001537	apolipoprotein L2 [Source:VGNC Symbol;Acc:VGNC:69989]	-0.77797783	7.30E-07	6.82E-06
ENSMMUG00000014010	RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]	0.88865185	1.53E-14	5.19E-13
ENSMMUG00000048463	apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]	0.838542777	5.01E-08	5.90E-07
ENSMMUG00000056010		2.069340346	0.001166217	0.005042818
ENSMMUG00000059824		3.316136345	0.001870355	0.007606724
ENSMMUG00000012113	LARGE xylosyl- and glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:74236]	0.446655635	0.014429406	0.043587483

ENSMMUG00000013626	solute carrier family 5 member 1 [Source:VGNC Symbol;Acc:VGNC:77609]	0.38084847	0.008699834	0.028510815
ENSMMUG00000002182	phosphatidylserine decarboxylase [Source:VGNC Symbol;Acc:VGNC:76005]	2.347555465	1.72E-06	1.47E-05
ENSMMUG00000002181	SFI1 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]	0.657277114	2.39E-06	1.99E-05
ENSMMUG000000037662	selenoprotein M [Source:NCBI gene;Acc:718290]	1.845024381	0.004311448	0.015654955
ENSMMUG00000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]	1.882380397	4.01E-07	3.96E-06
ENSMMUG000000056113		2.013128976	0.000992348	0.004382897
ENSMMUG00000005898	MORC family CW-type zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:74810]	2.127209384	0.006627176	0.022518268
ENSMMUG00000019805	dual specificity phosphatase 18 [Source:VGNC Symbol;Acc:VGNC:71858]	0.470022938	0.004595665	0.016498977
ENSMMUG00000019804	solute carrier family 35 member E4 [Source:NCBI gene;Acc:716119]	-0.52637486	0.015837499	0.04707541
ENSMMUG00000019803	transcobalamin 2 [Source:VGNC Symbol;Acc:VGNC:78293]	0.542626349	0.011440375	0.035865947
ENSMMUG00000017562	pescadillo ribosomal biogenesis factor 1 [Source:VGNC Symbol;Acc:VGNC:75944]	0.751829798	0.005264448	0.018492824
ENSMMUG000000052343		-0.92730691	0.002474883	0.009686097
ENSMMUG000000046054	SEC14 like lipid binding 4 [Source:NCBI gene;Acc:715914]	1.227391607	0.006454892	0.021996828
ENSMMUG000000021374	EWS RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72446]	0.604599801	0.015765766	0.046919215
ENSMMUG000000058170	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.679507361	0.014730418	0.044298792
ENSMMUG00000007215	X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]	0.797062934	0.00822541	0.027184757
ENSMMUG000000020486	checkpoint kinase 2 [Source:VGNC Symbol;Acc:VGNC:70958]	0.642366653	4.83E-06	3.79E-05
ENSMMUG00000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	2.937961321	3.37E-22	2.60E-20
ENSMMUG000000023450	tyrosylprotein sulfotransferase 2 [Source:VGNC Symbol;Acc:VGNC:78639]	0.895417863	0.002945377	0.011233971
ENSMMUG000000023446	tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]	1.011850133	7.48E-07	6.97E-06
ENSMMUG000000023443	SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]	0.817929073	3.35E-06	2.71E-05
ENSMMUG000000023442	HPS4 biogenesis of lysosomal organelles complex 3 subunit 2 [Source:VGNC Symbol;Acc:VGNC:73396]	-1.5964882	0.009543885	0.030752274
ENSMMUG000000016052	seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]	0.988906244	3.09E-05	0.000199648
ENSMMUG000000010839	small G protein signaling modulator 1 [Source:VGNC Symbol;Acc:VGNC:77336]	0.312837111	0.016779628	0.049339636
ENSMMUG00000006853	crystallin beta B2 [Source:NCBI gene;Acc:100144420]	3.492826182	3.25E-17	1.53E-15
ENSMMUG000000044345	ral-GDS-related protein [Source:NCBI gene;Acc:710293]	0.695939817	0.001227768	0.005276429
ENSMMUG000000009106	solute carrier family 2 member 11 [Source:NCBI gene;Acc:699450]	0.455140069	0.000910145	0.004060757
ENSMMUG000000004552	D-dopachrome tautomerase [Source:NCBI gene;Acc:699933]	0.411774896	0.003737097	0.013798132
ENSMMUG000000020992	calcineurin binding protein 1 [Source:NCBI gene;Acc:700566]	1.149415905	4.71E-09	6.73E-08
ENSMMUG000000005980	glutathione hydrolase 5 proenzyme [Source:NCBI gene;Acc:720345]	0.624695667	2.05E-08	2.61E-07
ENSMMUG000000044782		-0.97980983	6.44E-10	1.06E-08
ENSMMUG000000020999	gamma-glutamyltransferase 1 [Source:NCBI gene;Acc:707545]	0.617643203	0.004887031	0.01739803
ENSMMUG000000000262	beta-ureidopropionase 1 [Source:VGNC Symbol;Acc:VGNC:79029]	1.032106654	0.005182125	0.018249358

ENSMMUG00000051567		-	0.579375173	0.010321241	0.032834566
ENSMMUG00000051040			1.105116674	0.008618258	0.028289755
ENSMMUG00000049542			1.716253276	4.15E-06	3.31E-05
ENSMMUG00000023622	BCR activator of RhoGEF and GTPase [Source:NCBI gene;Acc:709258]		1.126739114	0.000912609	0.004066576
ENSMMUG00000014641			0.430904564	0.000285708	0.001471347
ENSMMUG00000020092			0.637312696	0.001076223	0.004704451
ENSMMUG00000044861			0.502100115	0.005569665	0.019375692
ENSMMUG00000054655	immunoglobulin lambda variable 3-10 [Source:HGNC Symbol;Acc:HGNC:5897]		1.049634549	0.00023055	0.001218164
ENSMMUG00000056950			1.179544497	1.40E-10	2.60E-09
ENSMMUG00000060270			2.311866954	0.016610391	0.04890353
ENSMMUG00000047015	ral-GDS-related protein-like [Source:NCBI gene;Acc:106995524]		0.996364242	0.000122926	0.000689239
ENSMMUG00000018798	stromal cell derived factor 2 like 1 [Source:NCBI gene;Acc:697928]		0.442400424	0.016632917	0.048945301
ENSMMUG00000064215	yippee like 1 [Source:NCBI gene;Acc:107000563]		-1.18634688	0.000123195	0.000690471
ENSMMUG00000018531	peptidylprolyl isomerase like 2 [Source:VGNC Symbol;Acc:VGNC:76239]		0.397535634	0.007889253	0.026203457
ENSMMUG00000018823	transmembrane protein 191C [Source:NCBI gene;Acc:697070]		2.465040075	1.34E-05	9.46E-05
ENSMMUG00000056022			0.69351138	6.86E-05	0.000407102
ENSMMUG00000062755			1.037622243	0.002345477	0.00923375
ENSMMUG00000061040			1.597708124	0.006300303	0.02154332
ENSMMUG00000049130			2.247936454	1.49E-31	3.27E-29
ENSMMUG00000063914			2.307250052	1.41E-38	5.65E-36
ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]		2.620648719	1.50E-16	6.48E-15
ENSMMUG00000017171	scavenger receptor class F member 2 [Source:VGNC Symbol;Acc:VGNC:77058]		1.071222322	0.009526463	0.03071025
ENSMMUG00000062236			0.876040191	0.016984149	0.049888715
ENSMMUG00000011547	reticulon 4 receptor [Source:VGNC Symbol;Acc:VGNC:77047]		0.76954622	0.001026984	0.004515959
ENSMMUG00000021904	cell division cycle 45 [Source:VGNC Symbol;Acc:VGNC:70800]		0.676156904	0.002597788	0.010099467
ENSMMUG00000031106	ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]		0.93985695	1.89E-12	4.70E-11
ENSMMUG00000009650	HIR histone cell cycle regulation defective homolog A (<i>S. cerevisiae</i>) [Source:NCBI gene;Acc:719142]		0.257463644	0.008659328	0.028411267
ENSMMUG00000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]		1.471297425	1.73E-09	2.66E-08
ENSMMUG00000019925	DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]		1.325640864	1.70E-13	4.87E-12
ENSMMUG00000062702			1.332490071	0.003980294	0.014569477
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]		1.947557794	1.75E-08	2.26E-07
ENSMMUG00000021476	BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]		2.001463519	7.33E-05	0.000431427
ENSMMUG00000058916			2.715797605	1.93E-13	5.45E-12
ENSMMUG00000021477	ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]		2.820104656	3.60E-11	7.29E-10
ENSMMUG00000006731	CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]		2.051053543	6.23E-15	2.23E-13
ENSMMUG00000059302	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		2.029852599	1.70E-07	1.81E-06
ENSMMUG00000022222	interleukin 17 receptor A [Source:VGNC Symbol;Acc:VGNC:73712]		0.346564262	0.004980049	0.017661919
ENSMMUG00000009953	ninein like [Source:VGNC Symbol;Acc:VGNC:75273]		1.608572128	1.28E-08	1.68E-07
ENSMMUG00000002397	GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]		1.876801177	1.41E-12	3.57E-11
ENSMMUG00000059374			1.813211946	0.000105269	0.000597648
ENSMMUG00000059370	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		2.712101038	0.015957058	0.047367871
ENSMMUG00000009201	abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]		1.680784728	2.01E-11	4.27E-10
ENSMMUG00000060399	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		1.470329807	0.000265151	0.001381211
ENSMMUG00000009199	glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]		1.765374751	2.71E-11	5.63E-10
ENSMMUG00000024668	Y RNA [Source:RFAM;Acc:RF00019]		3.205809246	0.005328968	0.018677361

ENSMMUG00000052572		1.477179059	0.001412637	0.00594877
ENSMMUG00000058095	visual system homeobox 1 [Source:NCBI gene;Acc:715973]	1.414361394	0.005443991	0.019028188
ENSMMUG00000052227		1.811499081	0.000268486	0.001394491
ENSMMUG00000020597	acyl-CoA synthetase short chain family member 1 [Source:VGNC Symbol;Acc:VGNC:69416]	1.111987251	0.000175576	0.000950983
ENSMMUG00000061222	adipocyte plasma membrane associated protein [Source:NCBI gene;Acc:704948]	1.131669271	2.08E-05	0.000140378
ENSMMUG00000049391		2.497424505	6.29E-07	5.95E-06
		-		
ENSMMUG00000053965		0.711729449	0.004517644	0.016260504
		-		
ENSMMUG00000042668	cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]	1.055350207	6.44E-05	0.000385147
		-		
ENSMMUG00000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]	1.155208468	1.01E-11	2.28E-10
		-		
ENSMMUG00000010114	Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]	0.698737493	0.001252442	0.005366718
		-		
ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]	1.318646139	1.85E-06	1.57E-05
ENSMMUG00000002202	SEL1L2 adaptor subunit of ERAD E3 ligase [Source:VGNC Symbol;Acc:VGNC:77239]	0.690646165	0.002262869	0.008951257
ENSMMUG00000062485	ESF1 nucleolar pre-rRNA processing protein homolog [Source:NCBI gene;Acc:694159]	0.898445184	0.000714097	0.003288598
ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]	3.739306564	9.60E-17	4.25E-15
		-		
ENSMMUG00000015923	ankyrin repeat and EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69615]	1.081046969	9.24E-05	0.000531805
ENSMMUG00000065218		0.444884789	0.004606639	0.016534145
		-		
ENSMMUG00000021137	thioredoxin related transmembrane protein 4 [Source:VGNC Symbol;Acc:VGNC:79484]	0.949176165	0.014974234	0.04490669
ENSMMUG00000055897		1.548585188	6.62E-10	1.09E-08
ENSMMUG00000057687		2.054055248	5.35E-20	3.23E-18
ENSMMUG00000064554	leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]	2.293347463	2.09E-07	2.18E-06
ENSMMUG00000056093	shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]	1.295806796	8.53E-07	7.83E-06
ENSMMUG00000022345		0.998531523	0.002849119	0.010914552
ENSMMUG00000050080	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.515082301	0.001335564	0.00566504
ENSMMUG00000064391		1.388311197	3.67E-13	1.00E-11
		-		
ENSMMUG00000013261	CDP-diacylglycerol synthase 2 [Source:VGNC Symbol;Acc:VGNC:70995]	1.011416374	0.007734138	0.025767598
		-		
ENSMMUG00000020004	Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]	0.670729562	0.001822416	0.007424677
ENSMMUG00000051480		0.82030407	0.001640254	0.006765082
ENSMMUG00000017150	mitochondrial antiviral signaling protein [Source:VGNC Symbol;Acc:VGNC:74609]	0.753545062	0.008878807	0.028955235
ENSMMUG00000018922	cell division cycle 25B [Source:VGNC Symbol;Acc:VGNC:70795]	0.311181637	0.003374149	0.012600717
ENSMMUG00000022070	sialic acid binding Ig like lectin 1 [Source:VGNC Symbol;Acc:VGNC:77220]	0.504388081	5.04E-05	0.00030939
ENSMMUG00000003633	solute carrier family 4 member 11 [Source:VGNC Symbol;Acc:VGNC:77721]	0.379569899	1.50E-09	2.31E-08
ENSMMUG00000061481	inosine triphosphatase [Source:NCBI gene;Acc:717257]	0.364060038	2.31E-06	1.92E-05
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	1.663808906	1.33E-20	8.86E-19
ENSMMUG00000043281	U-box domain containing 5 [Source:NCBI gene;Acc:717166]	1.651615593	0.01376462	0.041915583
ENSMMUG00000002982	FAST kinase domains 5 [Source:NCBI gene;Acc:100498658]	0.54586704	0.000904244	0.004037858
ENSMMUG00000039757	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.640384657	0.006342387	0.02166081
ENSMMUG00000010678	oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]	1.549102446	2.63E-05	0.000172295
ENSMMUG00000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	2.564591956	1.64E-12	4.11E-11
ENSMMUG00000005878	protein tyrosine phosphatase receptor type A [Source:VGNC Symbol;Acc:VGNC:76610]	0.553983693	1.25E-05	8.86E-05
		-		
ENSMMUG00000005204	VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]	1.783699505	1.67E-05	0.000115104
		-		
ENSMMUG00000005200	PC-esterase domain containing 1A [Source:VGNC Symbol;Acc:VGNC:75622]	2.441931809	0.002217806	0.008818964

ENSMMUG00000021332	carboxypeptidase X, M14 family member 1 [Source:VGNC Symbol;Acc:VGNC:71413]	-	3.702793965	0.002840296	0.010889529
ENSMMUG00000064862		-	3.014797144	0.008673382	0.028444068
ENSMMUG00000021331	EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]	-	3.123082919	3.83E-06	3.07E-05
ENSMMUG00000061433		-	0.967608076	5.89E-05	0.00035589
ENSMMUG00000013888	NOP56 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75181]	-	1.055715851	0.005204574	0.018314617
ENSMMUG00000010050	small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]	-	3.098146487	4.77E-08	5.63E-07
ENSMMUG00000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	-	1.712701915	8.49E-10	1.37E-08
ENSMMUG00000018473	signal-regulatory protein gamma [Source:NCBI gene;Acc:716034]	-	2.856373747	0.015393625	0.045948234
ENSMMUG00000018165	syndecan binding protein 2 [Source:VGNC Symbol;Acc:VGNC:77017]	-	1.703540198	0.004650455	0.016670073
ENSMMUG00000018159	syntaphilin [Source:NCBI gene;Acc:100429237]	-	0.747839589	4.22E-05	0.000264487
ENSMMUG00000004711	transmembrane protein 74B [Source:VGNC Symbol;Acc:VGNC:78990]	-	1.936781516	0.001932726	0.007819567
ENSMMUG00000004709	proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]	-	1.464612105	0.005857842	0.020222679
ENSMMUG00000021670	solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]	-	-1.05118954	3.45E-05	0.000220485
ENSMMUG00000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	-	2.619212428	1.53E-15	5.84E-14
ENSMMUG00000031224	casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]	-	0.830245428	0.000174884	0.000947604
ENSMMUG00000012601	RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]	-	0.594977235	0.0001857	0.001000794
ENSMMUG00000017286	chromosome 10 C20orf96 homolog [Source:VGNC Symbol;Acc:VGNC:70324]	-	0.949908234	0.008760079	0.028661359
ENSMMUG00000061092	defensin beta 125 [Source:HGNC Symbol;Acc:HGNC:18105]	-	0.504695514	0.003790027	0.013949487
ENSMMUG00000046141	defensin beta 123 [Source:NCBI gene;Acc:619504]	-	0.607537518	0.002651393	0.010265179
ENSMMUG00000005116	defensin beta 124 [Source:VGNC Symbol;Acc:VGNC:71655]	-	0.708566556	0.000131415	0.000731575
ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	-	1.021239267	2.00E-10	3.62E-09
ENSMMUG00000005119	histocompatibility minor 13 [Source:VGNC Symbol;Acc:VGNC:81418]	-	-1.3872195	0.00833525	0.027489466
ENSMMUG00000051112	p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]	-	1.424195793	3.93E-07	3.89E-06
ENSMMUG00000000117	HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]	-	0.913906019	0.006069053	0.020859393
ENSMMUG00000053133	BPI fold containing family B member 2 [Source:NCBI gene;Acc:710915]	-	0.685894636	0.002361707	0.009289821
ENSMMUG00000020676	BPI fold containing family B member 4 [Source:VGNC Symbol;Acc:VGNC:70321]	-	0.509658873	0.003082235	0.011653323
ENSMMUG00000012912	itchy E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:73589]	-	0.620344232	5.40E-10	9.00E-09
ENSMMUG00000055449	tumor protein p53 inducible nuclear protein 2 [Source:NCBI gene;Acc:707113]	-	1.990524149	0.008258212	0.027286735
ENSMMUG00000017931	gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]	-	1.554140217	8.08E-05	0.000472236
ENSMMUG00000017932	acyl-CoA synthetase short chain family member 2 [Source:VGNC Symbol;Acc:VGNC:69410]	-	2.209820595	0.00152968	0.006362997
ENSMMUG00000000229	transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]	-	2.753414854	2.82E-05	0.000183443
ENSMMUG00000057979	growth differentiation factor 5 [Source:NCBI gene;Acc:705432]	-	0.80333605	3.85E-07	3.83E-06

ENSMMUG00000031274	GDF5 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:33435]	0.683366136	0.002659392	0.010293307
ENSMMUG00000031284	RNA binding motif protein 39 [Source:NCBI gene;Acc:704198]	2.902916197	0.000657062	0.003055032
ENSMMUG00000010633	PHD finger protein 20 [Source:VGNC Symbol;Acc:VGNC:75807]	0.45787917	1.07E-05	7.70E-05
		-		
ENSMMUG00000020690	erythrocyte membrane protein band 4.1 like 1 [Source:VGNC Symbol;Acc:VGNC:72231]	0.550630946	0.000344453	0.00172818
ENSMMUG00000020691	AAR2 splicing factor [Source:VGNC Symbol;Acc:VGNC:69412]	-0.5337775	0.003146332	0.01184139
ENSMMUG00000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	1.28781545	4.91E-09	6.99E-08
ENSMMUG00000059897	myosin light chain 9 [Source:NCBI gene;Acc:709784]	1.191609431	0.000594239	0.002816159
ENSMMUG00000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	1.634019411	1.33E-22	1.08E-20
ENSMMUG00000056945		1.60095375	8.32E-18	4.09E-16
ENSMMUG00000008200	Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]	1.661596374	1.77E-08	2.29E-07
ENSMMUG00000010363	ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]	1.227105099	9.48E-05	0.000543813
ENSMMUG00000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	1.306888806	1.84E-05	0.000125272
		-		
ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	1.225388838	5.89E-11	1.16E-09
ENSMMUG00000020172	KIAA1755 [Source:VGNC Symbol;Acc:VGNC:73942]	0.672899636	3.07E-05	0.00019887
ENSMMUG00000020173	bactericidal permeability increasing protein [Source:VGNC Symbol;Acc:VGNC:70277]	0.565622518	0.000318741	0.001617116
		-		
ENSMMUG00000031309	adipogenin [Source:VGNC Symbol;Acc:VGNC:84540]	0.689664255	0.005076107	0.017925521
ENSMMUG00000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	1.902834336	5.33E-15	1.92E-13
ENSMMUG00000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	2.231681746	1.54E-10	2.84E-09
ENSMMUG00000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	2.115520258	3.32E-12	7.96E-11
ENSMMUG00000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	2.254797357	1.23E-20	8.24E-19
ENSMMUG00000002810	TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]	1.335936575	5.29E-14	1.65E-12
		-		
ENSMMUG00000022865	junctophilin 2 [Source:NCBI gene;Acc:694158]	3.923969682	2.31E-06	1.92E-05
		-		
ENSMMUG00000006464	hepatocyte nuclear factor 4 alpha [Source:VGNC Symbol;Acc:VGNC:73492]	0.854412506	0.001581517	0.006551732
ENSMMUG000000063590		0.758651159	0.001489544	0.006220333
ENSMMUG00000045256	cellular communication network factor 5 [Source:NCBI gene;Acc:717872]	1.697969482	3.46E-06	2.80E-05
ENSMMUG00000013206	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta [Source:VGNC Symbol;Acc:VGNC:78819]	1.105430133	0.004238901	0.015407494
		-		
ENSMMUG000000063049		0.217209666	0.00500257	0.017719383
ENSMMUG00000039638	serine peptidase inhibitor, Kunitz type 3 [Source:NCBI gene;Acc:100423908]	0.316445375	0.014408672	0.043555252
ENSMMUG00000021022	deoxynucleotidyltransferase terminal interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:71845]	0.921440108	0.001075193	0.004701414
ENSMMUG00000052867		1.149581783	6.71E-06	5.09E-05
ENSMMUG00000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	1.215295817	1.07E-07	1.19E-06
ENSMMUG00000058326	neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]	2.230022761	0.000600246	0.002843666
ENSMMUG00000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	1.522448447	2.57E-14	8.44E-13
ENSMMUG00000013697	PDX1 C-terminal inhibiting factor 1 [Source:VGNC Symbol;Acc:VGNC:75621]	0.857395139	1.48E-09	2.30E-08
		-		
ENSMMUG00000013702	zinc finger protein 335 [Source:VGNC Symbol;Acc:VGNC:78986]	1.780768722	0.00365146	0.013513967
ENSMMUG00000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	3.692483859	1.10E-22	9.05E-21
ENSMMUG00000016553	solute carrier family 12 member 5 [Source:VGNC Symbol;Acc:VGNC:77471]	4.483613695	7.24E-05	0.000427335
		-		
ENSMMUG00000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]	1.134075725	6.39E-12	1.47E-10
		-		
ENSMMUG00000065008		0.984465377	0.000160529	0.000877621
ENSMMUG00000015710	zinc finger MYND-type containing 8 [Source:NCBI gene;Acc:716058]	0.475532984	0.001164548	0.005037153
		-		
ENSMMUG00000012020	nuclear receptor coactivator 3 [Source:VGNC Symbol;Acc:VGNC:75147]	0.639676217	1.31E-06	1.15E-05
		-		
ENSMMUG00000012029	sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]	1.099525898	2.79E-07	2.84E-06

ENSMMUG00000060780		0.592933668	3.87E-06	3.10E-05
ENSMMUG00000055085		0.809797287	0.01235461	0.038177324
		-		
ENSMMUG00000058754		2.484507965	0.011618434	0.036334814
ENSMMUG00000021692	prostaglandin I2 synthase [Source:VGNC Symbol;Acc:VGNC:76587]	0.391341622	0.005856053	0.02022148
ENSMMUG00000002124	beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]	1.366539313	6.84E-06	5.18E-05
ENSMMUG00000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	1.915847302	8.74E-31	1.78E-28
ENSMMUG00000028471	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	1.33581746	3.25E-05	0.000208476
ENSMMUG00000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	1.536947741	2.94E-08	3.63E-07
ENSMMUG00000000757	ring finger protein 114 [Source:VGNC Symbol;Acc:VGNC:76725]	1.104224182	0.005009113	0.01773808
ENSMMUG00000065129		2.280500092	0.001061052	0.004647717
ENSMMUG00000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	1.826275083	3.56E-22	2.73E-20
		-		
ENSMMUG00000062321		0.466321877	0.012666536	0.038995133
		-		
ENSMMUG00000002761	activity dependent neuroprotector homeobox [Source:VGNC Symbol;Acc:VGNC:69614]	0.439775017	0.005924888	0.020408917
		-		
ENSMMUG00000018846	ZFP64 zinc finger protein [Source:VGNC Symbol;Acc:VGNC:78994]	0.520097553	1.00E-07	1.12E-06
		-		
ENSMMUG00000013035	teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]	0.902682587	0.001216616	0.005238133
		-		
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	2.427659979	1.18E-16	5.18E-15
ENSMMUG00000057302		-2.34820288	1.43E-05	1.00E-04
ENSMMUG00000052112		1.261212867	5.88E-05	0.00035559
ENSMMUG00000004074	bone morphogenetic protein 7 [Source:VGNC Symbol;Acc:VGNC:70266]	0.924414791	0.000157584	0.00086354
ENSMMUG00000031391	RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]	1.838701864	4.34E-05	0.000270707
ENSMMUG00000022586	phosphoenolpyruvate carboxykinase 1 [Source:VGNC Symbol;Acc:VGNC:75779]	3.378164949	0.006037967	0.020772917
		-		
ENSMMUG00000022589	prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]	1.029232407	2.84E-05	0.000184314
ENSMMUG00000004560	crystallin lambda 1 [Source:VGNC Symbol;Acc:VGNC:71433]	-0.42883677	0.010639432	0.033678725
		-		
ENSMMUG00000016475	M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]	0.696556984	2.01E-05	0.00013652
		-		
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	1.113853057	3.51E-13	9.64E-12
		-		
ENSMMUG00000014610	ring finger protein 17 [Source:NCBI gene;Acc:708198]	0.559394806	0.001342531	0.005685991
		-		
ENSMMUG00000057852		0.741013493	0.001686873	0.006935281
ENSMMUG00000057481		3.975578033	2.80E-07	2.85E-06
		-		
ENSMMUG00000058786	ligand of numb-protein X 2 [Source:NCBI gene;Acc:710660]	0.758582759	0.000213365	0.001134703
		-		
ENSMMUG00000052070	caudal type homeobox 2 [Source:NCBI gene;Acc:711094]	0.623413943	0.014984011	0.044926402
		-		
ENSMMUG00000016138	ureidoimidazoline (2-oxo-4-hydroxy-4-carboxy-5-) decarboxylase [Source:NCBI gene;Acc:721710]	1.378215846	0.003193051	0.011991472
ENSMMUG00000063649		0.61103884	0.003382303	0.012617728
		-		
ENSMMUG00000008658	microtubule associated scaffold protein 2 [Source:NCBI gene;Acc:721776]	0.656906319	3.61E-05	0.000229716
		-		
ENSMMUG00000003771	ubiquitin like 3 [Source:VGNC Symbol;Acc:VGNC:78701]	1.179596062	0.000779224	0.003561623
		-		
ENSMMUG00000061779		0.920856679	2.46E-05	0.000162765
		-		
ENSMMUG00000050015	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.329905013	0.005338067	0.018699902

ENSMMUG00000013707	heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]	-	1.012410233	6.14E-10	1.01E-08
ENSMMUG00000013713	beta 3-galactosyltransferase [Source:NCBI gene;Acc:713498]	-	2.005682287	1.08E-07	1.19E-06
ENSMMUG00000007192	FRY microtubule binding protein [Source:NCBI gene;Acc:713688]	-	1.128354353	0.001216251	0.005238133
ENSMMUG00000038997	zygote arrest 1 like [Source:NCBI gene;Acc:100427970]	-	2.790991128	9.60E-05	0.000550098
ENSMMUG00000007197	BRCA2 DNA repair associated [Source:VGNC Symbol;Acc:VGNC:70279]	-	0.960715405	3.17E-05	0.00020426
ENSMMUG00000007198	NEDD4 binding protein 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75017]	-	1.533031339	0.001185615	0.005115937
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	-	2.031810121	7.86E-29	1.25E-26
ENSMMUG00000049600		-	1.116885549	0.007379944	0.024734453
ENSMMUG00000055811		-	2.137397895	1.40E-15	5.40E-14
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	-	1.809353988	2.07E-30	3.82E-28
ENSMMUG00000025050	Y RNA [Source:RFAM;Acc:RF00019]	-	2.440710254	1.36E-05	9.57E-05
ENSMMUG00000017048	klotho [Source:VGNC Symbol;Acc:VGNC:74026]	-	0.790398528	2.26E-06	1.89E-05
ENSMMUG00000063615		-	0.642459171	1.00E-06	9.07E-06
ENSMMUG00000017052	StAR related lipid transfer domain containing 13 [Source:VGNC Symbol;Acc:VGNC:77962]	-	0.399124285	0.00016865	0.000917368
ENSMMUG00000019831	neurobeachin [Source:NCBI gene;Acc:714386]	-	2.740881727	2.15E-12	5.30E-11
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	-	2.647892143	1.31E-27	1.89E-25
ENSMMUG00000060579		-	2.358230548	3.73E-06	3.00E-05
ENSMMUG00000001172	spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]	-	2.545104914	2.84E-08	3.52E-07
ENSMMUG00000003585	ALG5 dolichyl-phosphate beta-glucosyltransferase [Source:VGNC Symbol;Acc:VGNC:69647]	-	0.671292957	0.000619036	0.002911046
ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	-	0.926329328	1.41E-10	2.62E-09
ENSMMUG00000030786	transient receptor potential cation channel subfamily C member 4 [Source:NCBI gene;Acc:695636]	-	0.527102139	3.27E-05	0.000209889
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	-	-1.57267562	2.58E-11	5.40E-10
ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	-	-1.16021162	5.49E-10	9.13E-09
ENSMMUG00000052676		-	1.106003276	1.27E-09	1.99E-08
ENSMMUG00000011593	regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]	-	-1.09466076	1.60E-09	2.46E-08
ENSMMUG00000023076	diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]	-	1.016128802	3.73E-05	0.00023675
ENSMMUG00000055887		-	0.989301888	0.003622363	0.01342045
ENSMMUG00000023083	A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]	-	1.496873791	1.53E-07	1.64E-06
ENSMMUG00000014926	epithelial stromal interaction 1 [Source:VGNC Symbol;Acc:VGNC:72053]	-	0.591387914	0.004684072	0.016781997
ENSMMUG00000002330	ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]	-	1.199337486	0.000135663	0.000752832
ENSMMUG00000050436		-	3.318712201	0.003402819	0.012687513
ENSMMUG00000011986	chibby family member 2 [Source:VGNC Symbol;Acc:VGNC:78029]	-	-1.18091294	4.12E-05	0.00025845
ENSMMUG00000017025	zinc finger CCCH-type containing 13 [Source:VGNC Symbol;Acc:VGNC:79248]	-	0.881225962	6.47E-08	7.49E-07
ENSMMUG00000065094		-	1.310755838	0.001598424	0.00661591
ENSMMUG00000059778		-	1.812017512	3.74E-05	0.000237257
ENSMMUG00000063377	cysteinyl leukotriene receptor 2 [Source:NCBI gene;Acc:705450]	-	0.882094053	0.011598699	0.036281186
ENSMMUG00000023756	fibronectin type III domain containing 3A [Source:VGNC Symbol;Acc:VGNC:72539]	-	0.333967924	0.002244523	0.008898771

ENSMMUG00000013476	PHD finger protein 11 [Source:VGNC Symbol;Acc:VGNC:75814]	-2.08490054	0.006964861	0.023506195
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	1.1151594	4.42E-10	7.48E-09
ENSMMUG00000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	1.118098176	4.95E-10	8.30E-09
ENSMMUG00000053708	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	0.960030523	0.011829025	0.03686187
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	0.952538733	3.34E-08	4.09E-07
ENSMMUG00000016404	chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]	2.475506131	5.19E-05	0.000318311
		-		
ENSMMUG00000002657	olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]	1.055363608	0.000153332	0.000842877
		-		
ENSMMUG00000054675		0.728492612	0.002604205	0.01012161
		-		
ENSMMUG00000021197	TBC1 domain family member 4 [Source:VGNC Symbol;Acc:VGNC:78166]	1.484689713	0.000269678	0.001398556
ENSMMUG00000046375		1.053210056	0.003095991	0.011695873
		-		
ENSMMUG00000061846		0.670474883	1.83E-05	0.000125072
		-		
ENSMMUG00000059231		0.615904694	3.07E-08	3.77E-07
ENSMMUG00000056466		-0.79139472	1.24E-06	1.09E-05
		-		
ENSMMUG00000021459	MYC binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75011]	1.514619345	3.78E-15	1.39E-13
		-		
ENSMMUG00000054625		0.645475127	8.85E-05	0.000511838
ENSMMUG00000049796		0.829268887	0.012601553	0.038829175
		-		
ENSMMUG00000060359		3.207020282	9.11E-05	0.000525305
		-		
ENSMMUG00000021817	dopachrome tautomerase [Source:VGNC Symbol;Acc:VGNC:71749]	0.568869987	0.002127948	0.008513613
		-		
ENSMMUG00000054711		1.210263788	1.07E-07	1.19E-06
		-		
ENSMMUG00000021807	ATP binding cassette subfamily C member 4 [Source:VGNC Symbol;Acc:VGNC:69573]	0.773960289	0.008065047	0.026711422
		-		
ENSMMUG00000009721	claudin 10 [Source:VGNC Symbol;Acc:VGNC:71243]	0.919991768	0.01052522	0.033385017
ENSMMUG00000022744	muscleblind like splicing regulator 2 [Source:VGNC Symbol;Acc:VGNC:74519]	0.655365572	3.77E-05	0.000238881
ENSMMUG00000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	1.192085408	3.99E-24	3.81E-22
ENSMMUG00000009173	serine/threonine kinase 24 [Source:VGNC Symbol;Acc:VGNC:81583]	0.591859323	2.85E-05	0.000185209
ENSMMUG00000001402	solute carrier family 15 member 1 [Source:VGNC Symbol;Acc:VGNC:77393]	-2.35849888	0.00114181	0.004946433
ENSMMUG00000012332	UBA domain containing 2 [Source:NCBI gene;Acc:703484]	-0.6243226	1.44E-05	0.000100636
		-		
ENSMMUG00000060781	G protein-coupled receptor 18 [Source:NCBI gene;Acc:698714]	0.683968048	0.004849967	0.01728363
		-		
ENSMMUG00000012338	G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]	0.613091327	0.002434961	0.009556524
		-		
ENSMMUG00000004493	propionyl-CoA carboxylase subunit alpha [Source:VGNC Symbol;Acc:VGNC:75773]	0.625398193	0.010120759	0.032314071
		-		
ENSMMUG00000002875	fibroblast growth factor 14 [Source:VGNC Symbol;Acc:VGNC:72645]	3.727224589	0.012296811	0.038040633
		-		
ENSMMUG00000052642	protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]	1.890414435	1.83E-05	0.000124722
		-		
ENSMMUG00000000350	basic, immunoglobulin-like variable motif containing [Source:NCBI gene;Acc:100426213]	0.655733919	0.014421549	0.043575388
		-		
ENSMMUG00000000353	putative methyltransferase-like protein 21E pseudogene [Source:NCBI gene;Acc:707949]	0.823218592	0.000559685	0.002667728
		-		
ENSMMUG00000053838		0.389926041	0.006398363	0.021827554
ENSMMUG00000022282	collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]	4.03773363	4.25E-07	4.17E-06

ENSMMUG00000022818	inhibitor of growth family member 1 [Source:VGNC Symbol;Acc:VGNC:73742]	3.985354432	0.000212778	0.001132368
ENSMMUG00000064401		3.074749266	0.000211855	0.00112799
		-		
ENSMMUG00000018929	ankyrin repeat domain 10 [Source:VGNC Symbol;Acc:VGNC:69646]	0.440627828	4.68E-05	0.00028967
		-		
ENSMMUG00000013138	Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]	0.768440642	1.65E-06	1.42E-05
		-		
ENSMMUG00000056306		1.121295792	4.53E-08	5.39E-07
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]	1.542606453	1.54E-23	1.39E-21
ENSMMUG00000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]	1.606454637	1.40E-12	3.56E-11
		-		
ENSMMUG00000016740	defective in cullin neddylation 1 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:71684]	0.516526504	3.30E-08	4.04E-07
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]	1.70249809	6.03E-16	2.46E-14
ENSMMUG00000051400		-0.3818803	0.002466721	0.009659545
ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]	0.978278477	2.04E-11	4.33E-10
ENSMMUG00000003042	VPS53 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:79522]	0.831559613	0.000216394	0.001149431
		-		
ENSMMUG00000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]	1.448677108	2.62E-09	3.89E-08
		-		
ENSMMUG00000030401	gem nuclear organelle associated protein 4 [Source:VGNC Symbol;Acc:VGNC:72723]	0.785690785	0.002740432	0.010563243
		-		
ENSMMUG00000050361		0.624340751	0.011906964	0.03705534
		-		
ENSMMUG00000011417	glyoxalase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72939]	0.576795159	0.000913292	0.004068326
ENSMMUG00000008130	ABR activator of RhoGEF and GTPase [Source:VGNC Symbol;Acc:VGNC:69589]	0.620823565	2.30E-09	3.47E-08
ENSMMUG00000002371	myosin IC [Source:VGNC Symbol;Acc:VGNC:75112]	0.616280641	0.000257414	0.0013449
ENSMMUG00000055241		0.814090724	1.61E-08	2.09E-07
ENSMMUG00000040268	phosphatidylinositol transfer protein alpha [Source:NCBI gene;Acc:721228]	0.736910899	0.00054237	0.002593131
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	1.467833535	2.19E-07	2.27E-06
ENSMMUG00000039266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.155192843	0.003948996	0.014477587
ENSMMUG00000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]	2.10628113	6.29E-18	3.15E-16
ENSMMUG00000002377	Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]	1.828328102	6.43E-08	7.45E-07
ENSMMUG00000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]	1.275179063	2.59E-21	1.83E-19
		-		
ENSMMUG00000002380	WD repeat domain 81 [Source:NCBI gene;Acc:721254]	0.404078426	0.000289914	0.001488633
ENSMMUG00000002382	serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]	0.582447756	0.004340647	0.015741648
		-		
ENSMMUG00000017518	small G protein signaling modulator 2 [Source:NCBI gene;Acc:703543]	0.304607181	0.014386417	0.043506733
		-		
ENSMMUG00000053298		0.972500459	2.17E-08	2.74E-07
ENSMMUG00000020524	platelet activating factor acetylhydrolase 1b regulatory subunit 1 [Source:VGNC Symbol;Acc:VGNC:75747]	0.497669798	0.003157621	0.0118775
ENSMMUG00000020527	clustered mitochondria homolog [Source:VGNC Symbol;Acc:VGNC:71370]	0.597501885	0.00209613	0.008400695
ENSMMUG00000022989	RAP1 GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:76561]	0.826175516	0.00034633	0.00173469
ENSMMUG00000061370		1.850958546	0.006730791	0.022793016
ENSMMUG00000030389		1.098342233	0.001089174	0.004750694
ENSMMUG00000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]	1.018316948	5.43E-06	4.22E-05
ENSMMUG00000012825	olfactory receptor 1A2 [Source:NCBI gene;Acc:100429763]	1.40904646	0.001599824	0.00661975
ENSMMUG00000042407		1.011002717	0.005189589	0.018271053
ENSMMUG00000055048		1.061858807	8.08E-11	1.57E-09
ENSMMUG00000008556	integrin subunit alpha E [Source:NCBI gene;Acc:721483]	0.610987014	0.000195921	0.001051034
		-		
ENSMMUG00000063482		0.914226437	0.000749534	0.003435999
ENSMMUG00000057632		3.552927573	6.96E-31	1.43E-28

ENSMMUG00000058966		-	0.766014322	0.00031847	0.001616912
ENSMMUG00000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]		0.595924926	0.001636142	0.006750107
ENSMMUG00000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]		1.317911708	3.82E-08	4.61E-07
ENSMMUG00000017654	arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]		1.128058366	0.001568312	0.006502793
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]		1.319225984	1.35E-14	4.63E-13
ENSMMUG000000061951			1.372395014	3.96E-05	0.000249533
ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]		1.86814868	4.44E-15	1.61E-13
ENSMMUG00000012040	enolase 3 [Source:VGNC Symbol;Acc:VGNC:72220]		2.941229071	0.000192424	0.001035045
ENSMMUG00000009176	calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]		1.594133581	1.86E-12	4.63E-11
ENSMMUG00000011344	solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]		4.183037972	3.36E-10	5.78E-09
ENSMMUG00000018648	zinc finger protein 594 [Source:NCBI gene;Acc:711492]		0.96921116	0.000180846	0.000977643
ENSMMUG00000010468	RPA interacting protein [Source:VGNC Symbol;Acc:VGNC:76854]		0.500595438	0.01584175	0.04707541
ENSMMUG00000006594	DEAH-box helicase 33 [Source:VGNC Symbol;Acc:VGNC:71633]		0.571128652	0.000154182	0.000847217
ENSMMUG00000006599	derlin 2 [Source:VGNC Symbol;Acc:VGNC:71654]		-0.59558309	1.09E-05	7.82E-05
ENSMMUG00000046195	MIS12 kinetochore complex component [Source:NCBI gene;Acc:712202]		0.934461116	6.98E-07	6.54E-06
ENSMMUG00000043771	uncharacterized LOC712349 [Source:NCBI gene;Acc:712349]		0.877862917	0.00963073	0.030939686
ENSMMUG00000030453	NLR family pyrin domain containing 1 [Source:NCBI gene;Acc:721648]		1.335299504	1.53E-20	1.01E-18
ENSMMUG00000064520			2.552825122	0.006660365	0.022598186
ENSMMUG00000010536	discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]		0.722475475	1.49E-07	1.60E-06
ENSMMUG00000052091	dishevelled segment polarity protein 2 [Source:NCBI gene;Acc:714381]		1.026551198	0.004401569	0.015908043
ENSMMUG00000010543	PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]		2.567196899	9.90E-06	7.19E-05
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]		1.052911892	3.19E-20	2.01E-18
ENSMMUG00000023620	RNA polymerase II subunit A [Source:NCBI gene;Acc:721865]		-0.47247231	0.009153437	0.029719529
ENSMMUG00000006327	tumor necrosis factor (ligand) superfamily, member 12 [Source:NCBI gene;Acc:100551506]		-0.31768315	0.010356321	0.032923757
ENSMMUG00000006332	SUMO specific peptidase 3 [Source:NCBI gene;Acc:715884]		0.725291923	2.38E-05	0.000158176
ENSMMUG00000033155	small nucleolar RNA, H/ACA box 48 [Source:HGNC Symbol;Acc:HGNC:32641]		-1.21174673	0.007340093	0.024636218
ENSMMUG00000013501	CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]		-2.14102367	6.19E-08	7.20E-07
ENSMMUG00000013503	mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]		1.292558582	0.000511722	0.002462552
ENSMMUG00000013510	FMR1 autosomal homolog 2 [Source:NCBI gene;Acc:721889]		1.111957318	1.90E-06	1.61E-05
ENSMMUG00000013513	sex hormone binding globulin [Source:VGNC Symbol;Acc:VGNC:77208]		0.896174527	0.001427769	0.006003482
ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]		0.740876419	0.00203764	0.008196736
ENSMMUG00000048204	ephrin B3 [Source:NCBI gene;Acc:716257]		1.313469203	5.72E-10	9.47E-09
ENSMMUG00000063668	cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]		1.076457521	2.73E-05	0.00017837
ENSMMUG00000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]		1.453150105	1.50E-13	4.35E-12
ENSMMUG00000065208			1.571798119	1.23E-06	1.09E-05
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]		1.589938818	1.39E-28	2.11E-26
ENSMMUG00000023803	myosin heavy chain 10 [Source:NCBI gene;Acc:721979]		2.443226781	6.21E-07	5.89E-06
ENSMMUG00000055290	netrin 1 [Source:NCBI gene;Acc:717645]		0.919204707	1.35E-08	1.77E-07

ENSMMUG00000058374		-	0.887741762	0.000911876	0.004065892
ENSMMUG00000051001		-	2.611947424	0.002320082	0.009146614
ENSMMUG00000016723	zinc finger protein 287 [Source:NCBI gene;Acc:695524]	-	1.164781091	0.000488378	0.002362464
ENSMMUG00000013345	folliculin [Source:NCBI gene;Acc:698082]	-	-3.46458752	1.58E-06	1.36E-05
ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	-	3.197249371	5.00E-08	5.89E-07
ENSMMUG00000006493	ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]	-	0.759910508	0.000161552	0.000881838
ENSMMUG00000023377	retinoic acid induced 1 [Source:VGNC Symbol;Acc:VGNC:76651]	-	0.648464836	0.002574394	0.01002798
ENSMMUG00000023375	sterol regulatory element binding transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:77880]	-	-0.56332524	0.012515276	0.038614239
ENSMMUG00000005900	GID complex subunit 4 homolog [Source:NCBI gene;Acc:699842]	-	1.001993445	0.003044415	0.011541453
ENSMMUG00000021409	developmentally regulated GTP binding protein 2 [Source:VGNC Symbol;Acc:VGNC:71993]	-	0.927267372	0.000614253	0.002896323
ENSMMUG00000018344	myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]	-	0.984962411	6.39E-09	8.86E-08
ENSMMUG000000056257		-	0.713607612	0.000913892	0.004068416
ENSMMUG000000053675		-	0.564653736	0.010477873	0.033257405
ENSMMUG00000005323	phosphoribosyl pyrophosphate synthetase associated protein 2 [Source:VGNC Symbol;Acc:VGNC:76430]	-	0.619735524	2.10E-08	2.66E-07
ENSMMUG000000051798	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	-	3.384039924	0.001252405	0.005366718
ENSMMUG000000051453		-	1.443426642	0.000579478	0.002751785
ENSMMUG00000008536	mitogen-activated protein kinase 7 [Source:VGNC Symbol;Acc:VGNC:74648]	-	2.351901777	5.55E-06	4.30E-05
ENSMMUG00000008538	microfibril associated protein 4 [Source:VGNC Symbol;Acc:VGNC:74710]	-	2.499620702	2.65E-07	2.71E-06
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	-	1.674536339	2.91E-07	2.94E-06
ENSMMUG000000051286		-	0.775019929	0.005129303	0.018076957
ENSMMUG000000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	-	1.374368747	8.48E-05	0.000492038
ENSMMUG00000018579	sperm antigen with calponin homology and coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:78021]	-	0.361520623	0.011696395	0.036505352
ENSMMUG00000024170	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	0.825212183	0.00048303	0.002341353
ENSMMUG000000040830		-	0.546583203	0.014537025	0.043858155
ENSMMUG000000060502		-	1.766470648	1.35E-11	2.96E-10
ENSMMUG000000061335		-	1.368918065	1.38E-07	1.49E-06
ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	-	1.296522372	5.73E-11	1.13E-09
ENSMMUG000000054784		-	1.241746536	9.67E-09	1.30E-07
ENSMMUG000000061836		-	1.178738376	5.70E-05	0.000345571
ENSMMUG000000065113		-	0.985185309	0.000104738	0.000595598
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	-	1.325540525	2.45E-16	1.05E-14
ENSMMUG000000063312		-	0.814378681	0.00049266	0.002380484
ENSMMUG00000019145	TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]	-	0.908706198	0.000249833	0.00130822
ENSMMUG00000019146	DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]	-	0.965884482	6.62E-06	5.03E-05
ENSMMUG00000019148	vitronectin [Source:NCBI gene;Acc:708499]	-	0.770814242	0.000719986	0.003312455
ENSMMUG00000012240	phosphatidylinositol glycan anchor biosynthesis class S [Source:VGNC Symbol;Acc:VGNC:75800]	-	0.744740937	0.000467492	0.002273897
ENSMMUG000000053611	stromal cell derived factor 2 [Source:NCBI gene;Acc:716189]	-	2.839914773	1.07E-05	7.70E-05

ENSMMUG00000004708	SPT6 homolog, histone chaperone and transcription elongation factor [Source:VGNC Symbol;Acc:VGNC:78057]	0.657309691	5.25E-05	0.000321337
ENSMMUG00000004710	protein interacting with cyclin A1 [Source:VGNC Symbol;Acc:VGNC:76336]	0.753895396	0.004003305	0.014642241
ENSMMUG00000007293	RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]	0.912244779	8.07E-06	6.00E-05
ENSMMUG00000026204	Small nucleolar RNA SNORD42 [Source:RFAM;Acc:RF00150]	0.448792993	0.015918257	0.047272705
ENSMMUG000000051743	TLC domain containing 1 [Source:NCBI gene;Acc:710391]	0.650244323	0.008612197	0.028283102
ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]	1.156348045	9.43E-07	8.57E-06
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	1.23490389	2.25E-09	3.39E-08
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	1.362864054	7.55E-14	2.30E-12
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	1.346254421	3.34E-10	5.78E-09
ENSMMUG00000009938	myosin XVIII A [Source:VGNC Symbol;Acc:VGNC:75058]	0.475614047	0.001055	0.004623207
ENSMMUG00000019667	TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]	1.261594184	0.000629903	0.002950279
ENSMMUG00000057447		5.092785962	7.99E-06	5.96E-05
ENSMMUG00000014411	coronin 6 [Source:NCBI gene;Acc:711818]	0.581059058	0.015835551	0.04707541
ENSMMUG00000014413	slingshot protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:78018]	0.476025754	7.13E-05	0.000421845
ENSMMUG00000060080	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.488808408	8.22E-05	0.000478505
ENSMMUG00000023698	golgi SNAP receptor complex member 1 [Source:VGNC Symbol;Acc:VGNC:73110]	0.855070816	1.01E-10	1.92E-09
ENSMMUG00000014689	myosin ID [Source:VGNC Symbol;Acc:VGNC:75113]	0.644346107	0.005669298	0.019658895
ENSMMUG00000059292		0.938233155	8.15E-11	1.58E-09
ENSMMUG00000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	1.928771878	3.37E-11	6.89E-10
ENSMMUG00000062784		0.767161989	0.00557814	0.01939555
ENSMMUG00000011413	acid sensing ion channel subunit 2 [Source:VGNC Symbol;Acc:VGNC:70241]	0.907338168	0.001905014	0.007727512
ENSMMUG00000060024		1.141131031	5.35E-05	0.000327058
ENSMMUG00000000288	C-C motif chemokine ligand 2 [Source:VGNC Symbol;Acc:VGNC:70698]	1.481568498	1.85E-06	1.57E-05
ENSMMUG00000009782	C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]	2.415530851	4.40E-06	3.49E-05
ENSMMUG00000064793	C-C motif chemokine ligand 11 [Source:NCBI gene;Acc:574218]	1.772953415	0.016156666	0.047859089
ENSMMUG00000009785	C-C motif chemokine ligand 13 [Source:VGNC Symbol;Acc:VGNC:70696]	-2.92532828	0.000166542	0.000906961
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	2.256340386	1.25E-06	1.11E-05
ENSMMUG00000005170	unc-45 myosin chaperone B [Source:VGNC Symbol;Acc:VGNC:78954]	0.803669796	0.001717375	0.007039681
ENSMMUG00000037555	schlafen family member 11 [Source:NCBI gene;Acc:715511]	1.85052746	0.001299587	0.005539099
ENSMMUG00000060439	schlafen family member 12 like [Source:NCBI gene;Acc:106992394]	-1.0404864	4.55E-06	3.60E-05
ENSMMUG00000031736		2.205052674	0.003017025	0.011459302
ENSMMUG00000026432	small nucleolar RNA, C/D box 7 [Source:HGNC Symbol;Acc:HGNC:32704]	3.349619307	0.001033032	0.004536866
ENSMMUG00000054472		0.828834197	0.003218543	0.012080737
ENSMMUG00000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	1.258994193	6.07E-14	1.87E-12
ENSMMUG00000058233	C-C motif chemokine 3-like [Source:NCBI gene;Acc:100426537]	1.468661842	0.00476881	0.017033372

ENSMMUG00000061594		-	1.391516059	0.001322358	0.005619281
ENSMMUG0000000618	gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]	-	0.919480467	6.41E-05	0.000383421
ENSMMUG00000051190	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.703520804	0.000420857	0.002067864
ENSMMUG00000007920	myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]	-	0.856464091	2.23E-05	0.000149091
ENSMMUG00000007923	phosphatidylinositol glycan anchor biosynthesis class W [Source:VGNC Symbol;Acc:VGNC:75850]	-	0.973647634	5.25E-05	0.000321181
ENSMMUG00000053845		-	1.107545332	3.55E-06	2.86E-05
ENSMMUG00000007917	carbonic anhydrase 4 [Source:NCBI gene;Acc:716919]	-	1.257489764	9.00E-09	1.21E-07
ENSMMUG00000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	-	1.177468955	1.07E-13	3.16E-12
ENSMMUG00000052977	putative protein FAM106C [Source:NCBI gene;Acc:106994084]	-	0.982004289	6.63E-08	7.67E-07
ENSMMUG00000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]	-	0.891359023	2.89E-05	0.000187314
ENSMMUG00000008423	septin 4 [Source:NCBI gene;Acc:714724]	-	-0.75664915	1.83E-13	5.20E-12
ENSMMUG00000046171	myotubularin related protein 4 [Source:NCBI gene;Acc:714621]	-	0.675695951	3.41E-08	4.17E-07
ENSMMUG00000007004	ring finger protein 43 [Source:NCBI gene;Acc:710124]	-	0.880690437	0.012027846	0.037348646
ENSMMUG00000056064	serine and arginine rich splicing factor 1 [Source:NCBI gene;Acc:713958]	-	0.790261367	2.95E-08	3.64E-07
ENSMMUG00000004723	vascular endothelial zinc finger 1 [Source:NCBI gene;Acc:713848]	-	0.626253926	7.57E-06	5.68E-05
ENSMMUG00000002269	serine carboxypeptidase 1 [Source:VGNC Symbol;Acc:VGNC:82232]	-	0.588034657	0.005497723	0.019192077
ENSMMUG000000049376		-	2.382258105	0.001123023	0.004877099
ENSMMUG00000005793	ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]	-	1.245805281	6.60E-07	6.21E-06
ENSMMUG00000059321		-	2.195888056	0.002028512	0.008167048
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	-	2.776124859	1.28E-06	1.12E-05
ENSMMUG00000050544		-	1.228100125	1.18E-05	8.43E-05
ENSMMUG00000049997		-	-1.09767422	1.25E-07	1.37E-06
ENSMMUG00000063189		-	0.488269844	0.006238255	0.021346765
ENSMMUG00000062178	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.121926539	0.003247253	0.012168956
ENSMMUG00000001942	mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]	-	1.143635396	3.16E-10	5.50E-09
ENSMMUG00000001940	NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]	-	1.438011724	4.45E-10	7.52E-09
ENSMMUG00000054539		-	0.825208196	0.007729462	0.025758139
ENSMMUG00000022741	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]	-	0.7761333	1.80E-05	0.000122985
ENSMMUG00000010117	LUC7 like 3 pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:74346]	-	0.923869923	0.002713104	0.010472297
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	-	1.928899085	1.30E-27	1.89E-25
ENSMMUG00000017252	spermatogenesis associated 20 [Source:VGNC Symbol;Acc:VGNC:77993]	-	1.328777153	1.04E-06	9.37E-06
ENSMMUG00000017242	MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]	-	1.433726178	4.38E-05	0.000272648
ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	-	2.961061711	9.87E-31	1.98E-28

ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	1.268794412	8.88E-07	8.12E-06
ENSMMUG00000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	1.844557263	0.000361434	0.001799216
ENSMMUG00000014685	pyruvate dehydrogenase kinase 2 [Source:VGNC Symbol;Acc:VGNC:75933]	1.640438972	0.000389006	0.001924171
ENSMMUG00000012178	calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]	0.799543344	4.73E-06	3.72E-05
ENSMMUG00000049405	gastric inhibitory polypeptide [Source:NCBI gene;Acc:698335]	0.858018444	1.66E-05	0.000114666
ENSMMUG00000021087	SNF8 subunit of ESCRT-II [Source:VGNC Symbol;Acc:VGNC:77729]	0.554558047	0.004541536	0.016338111
ENSMMUG00000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	1.366177536	3.51E-27	4.73E-25
ENSMMUG00000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	1.271336971	2.15E-14	7.15E-13
ENSMMUG00000055122		0.566319294	0.001400303	0.005907475
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	1.399356093	2.15E-24	2.10E-22
ENSMMUG00000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	1.196176147	1.02E-15	4.01E-14
ENSMMUG00000055324	homeobox B7 [Source:NCBI gene;Acc:697089]	1.280617561	2.67E-12	6.50E-11
ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	1.214009181	1.47E-13	4.26E-12
ENSMMUG00000051420	homeobox B5 [Source:NCBI gene;Acc:696732]	1.17793892	4.73E-08	5.60E-07
ENSMMUG00000045203		1.165394275	0.000172333	0.000935227
ENSMMUG00000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]	0.880669059	4.22E-08	5.04E-07
ENSMMUG00000057095		3.407704164	9.22E-08	1.04E-06
ENSMMUG00000050742	src kinase associated phosphoprotein 1 [Source:NCBI gene;Acc:697043]	0.577181132	1.24E-08	1.64E-07
ENSMMUG00000004760	CDK5 regulatory subunit associated protein 3 [Source:VGNC Symbol;Acc:VGNC:71015]	0.622034478	0.016211863	0.047971925
ENSMMUG00000003325	pyridoxamine 5'-phosphate oxidase [Source:VGNC Symbol;Acc:VGNC:76141]	0.959400586	3.88E-07	3.84E-06
ENSMMUG00000057231	T-box transcription factor 21 [Source:NCBI gene;Acc:694044]	1.030456054	1.44E-06	1.26E-05
ENSMMUG00000019760	karyopherin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:74203]	0.739331538	1.68E-08	2.18E-07
ENSMMUG00000020020	Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]	1.970351937	1.86E-10	3.40E-09
ENSMMUG00000007799	LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]	2.101441816	5.80E-14	1.81E-12
ENSMMUG00000050458		-1.52117005	5.39E-12	1.25E-10
ENSMMUG00000056248		4.285973311	1.40E-53	1.78E-50
ENSMMUG00000063779		4.385983159	8.95E-69	4.18E-65
ENSMMUG00000030060	F-box and leucine rich repeat protein 20 [Source:VGNC Symbol;Acc:VGNC:81407]	0.550165709	0.000130603	0.00072763
ENSMMUG00000004587	gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]	2.524247138	2.09E-05	0.000141062
ENSMMUG00000057790		2.930703138	0.000131565	0.00073188
ENSMMUG00000058758		2.454665133	2.49E-05	0.000164087
ENSMMUG00000064723	gasdermin A [Source:NCBI gene;Acc:698841]	1.564487842	0.008211655	0.027145694
ENSMMUG00000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	0.8751083	7.91E-08	9.03E-07
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	1.09154254	2.59E-11	5.40E-10
ENSMMUG00000045187	CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]	0.936148679	2.18E-07	2.25E-06
ENSMMUG00000015160	Rap guanine nucleotide exchange factor like 1 [Source:VGNC Symbol;Acc:VGNC:76501]	0.498222631	0.011246459	0.035313277
ENSMMUG00000056646		0.717999617	0.000807734	0.003675162
ENSMMUG00000012486	retinoic acid receptor alpha [Source:VGNC Symbol;Acc:VGNC:76662]	1.397426896	6.57E-06	5.01E-05
ENSMMUG00000008941	DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]	1.158622021	3.69E-15	1.36E-13
ENSMMUG00000009386	tensin 4 [Source:VGNC Symbol;Acc:VGNC:79432]	1.198475404	0.013968182	0.042406541
ENSMMUG00000001497	keratin 27 [Source:VGNC Symbol;Acc:VGNC:74169]	0.430643567	0.014836931	0.044552094

ENSMMUG00000062362	keratin 33A [Source:NCBI gene;Acc:705800]	0.562386715	0.000959022	0.00425043
ENSMMUG00000018644	keratin 32 [Source:VGNC Symbol;Acc:VGNC:74216]	0.552116094	0.000125634	0.00070302
ENSMMUG00000016114	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:VGNC Symbol;Acc:VGNC:71279]	0.377979303	0.004822405	0.017207274
ENSMMUG00000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	1.979224387	1.12E-25	1.30E-23
ENSMMUG00000052220		0.481333134	0.002619758	0.010173597
ENSMMUG00000010707	signal transducer and activator of transcription 3 [Source:VGNC Symbol;Acc:VGNC:77906]	0.411721818	3.02E-05	0.000195999
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	1.380843963	7.05E-11	1.37E-09
ENSMMUG00000009884	hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]	1.8980602	1.53E-07	1.64E-06
ENSMMUG00000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	1.208601237	1.75E-14	5.90E-13
ENSMMUG00000009887	MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]	1.197739867	2.97E-06	2.42E-05
ENSMMUG00000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	1.236144897	2.06E-10	3.71E-09
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	1.205084699	9.57E-13	2.48E-11
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	1.484441442	2.00E-18	1.08E-16
ENSMMUG00000006086	pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]	1.308176824	7.26E-05	0.000428113
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	1.681598104	3.06E-15	1.14E-13
ENSMMUG00000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	1.591782609	3.38E-13	9.30E-12
ENSMMUG00000056565	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.466133849	0.009753905	0.031278072
ENSMMUG00000058566		1.44805562	6.88E-16	2.75E-14
ENSMMUG00000012685	proteasome activator subunit 3 [Source:VGNC Symbol;Acc:VGNC:76457]	0.306950529	0.006460728	0.022011366
ENSMMUG00000001870	amine oxidase copper containing 2 [Source:VGNC Symbol;Acc:VGNC:69955]	0.479173916	0.003175883	0.011933388
ENSMMUG00000008087	glucose-6-phosphatase catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72839]	1.650274505	0.005886775	0.020307564
ENSMMUG00000014123	alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]	1.171402794	4.94E-07	4.78E-06
ENSMMUG00000008091	RUN domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77101]	1.136358258	9.47E-06	6.92E-05
ENSMMUG00000064920		1.250678478	4.60E-16	1.91E-14
ENSMMUG00000008090	ribosomal protein L27 [Source:NCBI gene;Acc:712352]	1.076142699	0.004399142	0.015903368
ENSMMUG00000015999	interferon induced protein 35 [Source:VGNC Symbol;Acc:VGNC:73564]	1.196025523	1.39E-05	9.73E-05
ENSMMUG00000016001	vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]	1.07198266	3.35E-10	5.78E-09
ENSMMUG00000065269	Rho family GTPase 2 [Source:NCBI gene;Acc:712559]	1.066012999	8.71E-07	7.98E-06
ENSMMUG00000052607		1.183483444	6.86E-27	9.08E-25
ENSMMUG00000019923	ataxin 7 like 3 [Source:VGNC Symbol;Acc:VGNC:70128]	0.788676264	2.23E-06	1.87E-05
ENSMMUG00000019924	upstream binding transcription factor [Source:NCBI gene;Acc:711597]	-0.71441102	1.40E-05	9.81E-05
ENSMMUG00000017100	solute carrier family 4 member 1 (Diego blood group) [Source:NCBI gene;Acc:100427618]	0.739832008	5.98E-06	4.60E-05
ENSMMUG00000029927	ADAM metallopeptidase domain 11 [Source:VGNC Symbol;Acc:VGNC:69466]	0.563009502	0.013374393	0.040904932
ENSMMUG00000062273	dephospho-CoA kinase domain containing [Source:NCBI gene;Acc:715841]	1.064336211	0.005042941	0.017844352
ENSMMUG00000060665		1.130891569	1.30E-05	9.17E-05
ENSMMUG00000054246		1.526963992	0.004735235	0.016935017
ENSMMUG00000021932	Rho GTPase activating protein 27 [Source:VGNC Symbol;Acc:VGNC:69935]	1.210733974	0.005266448	0.018495218
ENSMMUG00000008459	pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]	0.881703773	0.001266524	0.005416425
ENSMMUG00000008199	leucine-rich repeat-containing protein 37A [Source:NCBI gene;Acc:714675]	0.858359263	0.009131449	0.029655005
ENSMMUG00000005548	N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]	0.746909251	1.93E-10	3.50E-09

ENSMMUG00000057209		-	0.963941899	2.77E-08	3.43E-07
ENSMMUG00000004108	corticotropin releasing hormone receptor 1 [Source:VGNC Symbol;Acc:VGNC:81184]		0.752010417	0.000192025	0.001033294
ENSMMUG00000004122	microtubule associated protein tau [Source:NCBI gene;Acc:574327]		0.453850625	0.004046552	0.014781141
ENSMMUG00000004129	KAT8 regulatory NSL complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73900]		0.635554067	0.008515198	0.027997334
ENSMMUG000000053257	Y RNA [Source:RFAM;Acc:RF00019]		1.183711627	3.21E-10	5.56E-09
ENSMMUG000000063877	leucine-rich repeat-containing protein 37A2 [Source:NCBI gene;Acc:716147]		0.300557975	0.000904343	0.004037858
ENSMMUG00000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]		0.74106232	3.08E-10	5.37E-09
ENSMMUG00000010588	EF-hand calcium binding domain 13 [Source:HGNC Symbol;Acc:HGNC:26864]		0.597551253	0.001766804	0.00721698
ENSMMUG00000002166	tousled like kinase 2 [Source:VGNC Symbol;Acc:VGNC:78368]		2.375799819	0.010404696	0.033047576
ENSMMUG00000015185	endoplasmic reticulum to nucleus signaling 1 [Source:VGNC Symbol;Acc:VGNC:72429]		0.395121422	0.000539621	0.002580868
ENSMMUG00000017521	testis expressed 2 [Source:VGNC Symbol;Acc:VGNC:79894]		0.712892536	0.002716782	0.01048361
ENSMMUG00000016371	G protein subunit alpha 13 [Source:VGNC Symbol;Acc:VGNC:73087]		0.276115956	0.002900536	0.011091958
ENSMMUG000000060767			2.750891471	7.70E-11	1.50E-09
ENSMMUG000000060015	axin 2 [Source:NCBI gene;Acc:718566]		0.407165108	0.003422407	0.01274699
ENSMMUG00000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]		2.628019908	1.67E-21	1.19E-19
ENSMMUG000000057157			1.985029892	4.56E-10	7.69E-09
ENSMMUG000000063817	SRY-box transcription factor 9 [Source:NCBI gene;Acc:574208]		1.058455512	2.85E-12	6.93E-11
ENSMMUG000000054673			2.113168907	0.003081411	0.011653323
ENSMMUG00000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]		1.177457004	2.66E-13	7.40E-12
ENSMMUG00000001271	cleavage and polyadenylation specific factor 4 like [Source:NCBI gene;Acc:698279]		1.297930022	0.007358153	0.024679116
ENSMMUG000000061561			3.436231898	0.012879926	0.039582556
ENSMMUG000000049948			1.040986135	3.10E-07	3.12E-06
ENSMMUG000000064463			1.364041305	8.29E-05	0.000481899
ENSMMUG000000049403			0.493602215	0.000345497	0.001732434
ENSMMUG000000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]		1.532474698	3.61E-12	8.59E-11
ENSMMUG000000058592			1.923723404	1.42E-13	4.13E-12
ENSMMUG000000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]		1.905802081	7.87E-11	1.53E-09
ENSMMUG00000005737	SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]		2.913979118	1.21E-07	1.33E-06
ENSMMUG00000005738	N-acetyltransferase 9 (putative) [Source:NCBI gene;Acc:699085]		4.328811619	0.000178178	0.000964335
ENSMMUG00000005744	glutamate ionotropic receptor NMDA type subunit 2C [Source:VGNC Symbol;Acc:VGNC:73284]		0.43231975	0.012714043	0.039107046
ENSMMUG000000023405	otopettrin 3 [Source:VGNC Symbol;Acc:VGNC:75654]		0.421445573	0.000986353	0.004359163
ENSMMUG000000023406	HID1 domain containing [Source:VGNC Symbol;Acc:VGNC:73394]		0.670249979	1.92E-06	1.62E-05
ENSMMUG00000018031	solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]		0.964642833	0.005529063	0.019272693
ENSMMUG000000058142			0.924950843	5.58E-07	5.34E-06
ENSMMUG000000022120	transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]		-0.77910501	2.24E-07	2.32E-06
ENSMMUG000000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]		1.055835591	1.13E-05	8.14E-05
ENSMMUG000000022123	tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]		0.667319681	0.000570527	0.002714794
ENSMMUG00000001228	LLGL scribble cell polarity complex component 2 [Source:NCBI gene;Acc:706973]		0.458461323	0.000651292	0.003032225
ENSMMUG000000021636	SAP30 binding protein [Source:VGNC Symbol;Acc:VGNC:77142]		-1.00169587	0.003245394	0.012165238
ENSMMUG00000013646	unk zinc finger [Source:VGNC Symbol;Acc:VGNC:79803]		0.688949028	0.002053169	0.008247395
ENSMMUG000000002822	unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]		0.87709879	1.34E-07	1.45E-06
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]		0.949452258	3.08E-11	6.34E-10

ENSMMUG0000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	1.365259532	1.10E-09	1.74E-08
ENSMMUG0000008885	exocyst complex component 7 [Source:VGNC Symbol;Acc:VGNC:72319]	0.339171065	0.000282578	0.001456837
ENSMMUG00000054437		0.373751544	3.70E-05	0.00023477
ENSMMUG0000003534	ring finger protein 157 [Source:VGNC Symbol;Acc:VGNC:76860]	0.686553732	2.44E-05	0.000161528
ENSMMUG0000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	2.155591964	3.14E-10	5.46E-09
ENSMMUG00000049537	phosphoribosyl pyrophosphate synthetase associated protein 1 [Source:NCBI gene;Acc:706625]	2.585106049	0.000254154	0.001329358
ENSMMUG00000018011	sphingosine kinase 1 [Source:VGNC Symbol;Acc:VGNC:77858]	1.465593277	0.004897809	0.017423154
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	2.084064569	1.36E-29	2.36E-27
ENSMMUG00000046918		1.973768583	7.07E-05	0.000418421
ENSMMUG00000055379		1.435280405	4.65E-13	1.26E-11
ENSMMUG00000053937		1.381353391	2.96E-11	6.10E-10
		-		
ENSMMUG00000049183	transmembrane protein 235 [Source:NCBI gene;Acc:715249]	0.966946444	0.010530081	0.033391593
		-		
ENSMMUG0000008237	phosphatidylglycerophosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:75890]	0.747923855	0.002464151	0.00965757
		-		
ENSMMUG0000008239	dynein axonemal heavy chain 17 [Source:NCBI gene;Acc:715774]	0.668630471	0.001253039	0.005366941
ENSMMUG00000051537		2.935880804	1.24E-07	1.35E-06
ENSMMUG00000013313	cytohesin 1 [Source:VGNC Symbol;Acc:VGNC:71828]	0.47040339	0.00162466	0.006708658
ENSMMUG00000005352	ubiquitin specific peptidase 36 [Source:VGNC Symbol;Acc:VGNC:79219]	0.379734775	0.002928644	0.011187246
ENSMMUG00000005355	TIMP metalloproteinase inhibitor 2 [Source:NCBI gene;Acc:574357]	2.731974698	7.18E-05	0.000424675
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]	2.195696401	1.71E-08	2.21E-07
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]	2.089718779	6.02E-25	6.45E-23
ENSMMUG00000020840	TBC1 domain family member 16 [Source:VGNC Symbol;Acc:VGNC:78228]	0.40033429	0.002857118	0.010939549
ENSMMUG00000064603	caspase recruitment domain family member 14 [Source:NCBI gene;Acc:712205]	0.459705508	0.002587989	0.010064164
		-		
ENSMMUG00000064563		0.565183805	0.012024192	0.037348646
		-		
ENSMMUG00000029310	hemoglobin, alpha 2 [Source:NCBI gene;Acc:693930]	0.566334048	0.000624156	0.002930212
		-		
ENSMMUG00000019566	hemoglobin subunit alpha 1 [Source:NCBI gene;Acc:701930]	0.550781912	0.005108356	0.01801672
ENSMMUG00000000596	LUC7 like [Source:VGNC Symbol;Acc:VGNC:74461]	0.689964641	0.014412228	0.04355661
ENSMMUG00000029296	phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]	0.96428357	0.00034736	0.001738326
ENSMMUG00000049219	STIP1 homology and U-box containing protein 1 [Source:NCBI gene;Acc:697105]	0.742250556	0.003239739	0.012153787
		-		
ENSMMUG00000050065		0.777229198	0.007411706	0.024811256
		-		
ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]	0.927991882	1.81E-06	1.54E-05
ENSMMUG00000000842	RNA pseudouridine synthase domain containing 1 [Source:NCBI gene;Acc:722393]	2.151797047	0.013415881	0.041022873
		-		
ENSMMUG00000063740		0.404959638	0.004763272	0.017022263
		-		
ENSMMUG00000044277	ubiquitin conjugating enzyme E2 I [Source:NCBI gene;Acc:722434]	0.706013932	0.001614443	0.00667433
ENSMMUG00000021415	BAI1 associated protein 3 [Source:VGNC Symbol;Acc:VGNC:70223]	0.924521977	0.000621135	0.00291896
ENSMMUG00000012439	N-acetylglucosamine-1-phosphate transferase subunit gamma [Source:NCBI gene;Acc:722441]	0.819954843	0.005813458	0.020099141
		-		
ENSMMUG00000061546		2.097464108	0.00052104	0.002498819
		-		
ENSMMUG0000008119	telomere maintenance 2 [Source:NCBI gene;Acc:701679]	0.696359269	0.003511865	0.013038625
		-		
ENSMMUG00000029265	zinc finger protein 598 [Source:NCBI gene;Acc:694129]	0.762552131	1.59E-05	0.00010986
		-		
ENSMMUG00000029263	polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]	0.418501588	0.015356565	0.045847372
ENSMMUG00000019223	TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]	0.889856148	6.31E-05	0.000378537

ENSMMUG00000019238	RNA binding protein with serine rich domain 1 [Source:NCBI gene;Acc:695816]	-0.43085328	6.40E-06	4.90E-05
ENSMMUG00000011459	3-phosphoinositide dependent protein kinase 1 [Source:NCBI gene;Acc:697523]	0.427320227	1.09E-06	9.74E-06
ENSMMUG000000061321	host cell factor C1 regulator 1 [Source:NCBI gene;Acc:700351]	0.711431406	0.013014089	0.039951089
ENSMMUG00000009483	matrix metalloproteinase 25 [Source:VGNC Symbol;Acc:VGNC:74747]	0.489189566	0.013100391	0.040180836
ENSMMUG00000009484	zinc finger and SCAN domain-containing protein 10 [Source:NCBI gene;Acc:700600]	0.599951324	0.012320101	0.038079079
ENSMMUG00000009487	zinc finger protein 205 [Source:VGNC Symbol;Acc:VGNC:78869]	0.555444408	0.000144852	0.00080097
ENSMMUG000000064194		0.904258584	0.000145083	0.000801744
ENSMMUG000000020970	zinc finger protein 213 [Source:VGNC Symbol;Acc:VGNC:78872]	0.535442815	0.000236133	0.001244845
ENSMMUG000000051323	caspase-14-like [Source:NCBI gene;Acc:702430]	0.824078484	3.25E-05	0.000208476
		-		
ENSMMUG000000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]	0.933494795	6.86E-07	6.44E-06
		-		
ENSMMUG000000007568	zinc finger protein 174 [Source:VGNC Symbol;Acc:VGNC:78855]	1.023479525	0.010293655	0.032754237
		-		
ENSMMUG000000007569	clusterin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71211]	0.607121301	0.001755555	0.00717312
ENSMMUG000000021866	deoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:71946]	0.401492824	0.000845796	0.003817378
ENSMMUG000000021868	TNF receptor associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79019]	0.677735771	9.78E-06	7.12E-05
ENSMMUG000000039943	adenylate cyclase 9 [Source:NCBI gene;Acc:706789]	1.631469035	0.002157935	0.008613926
		-		
ENSMMUG0000000051196		1.808006424	0.000803006	0.003660776
		-		
ENSMMUG000000040803	sarcalumenin [Source:NCBI gene;Acc:704655]	1.306978003	0.000174036	0.000943741
		-		
ENSMMUG000000044729	transcription factor AP-4 [Source:NCBI gene;Acc:707513]	1.088526341	0.002875809	0.011003401
		-		
ENSMMUG000000044344	vasorin [Source:NCBI gene;Acc:100426861]	1.057649323	1.57E-05	0.000108604
		-		
ENSMMUG000000020540	NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]	1.324659518	7.28E-08	8.36E-07
		-		
ENSMMUG000000001888	mahogunin ring finger 1 [Source:VGNC Symbol;Acc:VGNC:74542]	0.911908271	0.001171258	0.005059935
ENSMMUG000000011001	ankyrin repeat and sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:69735]	0.657257674	1.30E-05	9.21E-05
ENSMMUG000000014311	chromosome 20 C16orf71 homolog [Source:NCBI gene;Acc:709711]	0.597934731	0.000130525	0.000727485
ENSMMUG000000014313	zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]	0.828845885	3.65E-06	2.95E-05
ENSMMUG000000017945	septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]	0.907431746	7.87E-05	0.000460592
ENSMMUG000000049327		1.162005635	0.001258672	0.005387775
ENSMMUG000000017946	rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]	0.965303275	2.26E-05	0.000150779
ENSMMUG000000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	2.535287563	1.06E-24	1.10E-22
ENSMMUG000000017822	periplakin [Source:VGNC Symbol;Acc:VGNC:76240]	3.541874	1.34E-23	1.22E-21
		-		
ENSMMUG000000046237	4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]	1.111104228	1.15E-09	1.81E-08
ENSMMUG000000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	0.98646023	3.80E-18	1.99E-16
ENSMMUG000000010142	glutamate ionotropic receptor NMDA type subunit 2A [Source:VGNC Symbol;Acc:VGNC:73282]	3.615419523	0.000340961	0.001714954
		-		
ENSMMUG000000005913	activating transcription factor 7 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70103]	1.406846975	4.93E-05	0.000303226
ENSMMUG000000060993	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-1.70665882	0.016700534	0.049123473
ENSMMUG000000056165		-1.80959346	2.77E-06	2.27E-05
		-		
ENSMMUG0000000052031		1.997421174	1.59E-14	5.37E-13
		-		
ENSMMUG000000064158		2.194445113	3.50E-08	4.27E-07
		-		
ENSMMUG000000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]	2.138270424	1.02E-07	1.14E-06
		-		
ENSMMUG000000006515	C-type lectin domain containing 16A [Source:VGNC Symbol;Acc:VGNC:71369]	0.810492362	0.000164441	0.000896211

ENSMMUG0000000566		1.159690122	0.007386837	0.024751639
ENSMMUG00000008784	lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]	3.792522089	0.001000722	0.004411861
ENSMMUG00000062037	stannin [Source:NCBI gene;Acc:711909]	2.102462577	5.52E-12	1.28E-10
ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	2.087198252	6.01E-10	9.92E-09
ENSMMUG00000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	0.927654315	7.57E-07	7.06E-06
ENSMMUG00000017379	myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]	0.817137169	5.76E-05	0.00034878
ENSMMUG00000062213	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.134201879	0.00152103	0.006336722
ENSMMUG00000057747		1.904030867	0.000395527	0.00195505
ENSMMUG00000064131		1.228692775	1.50E-06	1.30E-05
ENSMMUG00000027108	mml-mir-193b [Source:miRBase;Acc:MI0007656]	1.174389139	0.012224371	0.037858293
ENSMMUG00000002989	N-terminal asparagine amidase [Source:NCBI gene;Acc:100427569]	1.752503194	0.001080284	0.00471779
ENSMMUG00000062791		1.798484612	1.62E-06	1.40E-05
ENSMMUG00000062623	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.105660433	1.91E-05	0.000130276
ENSMMUG00000058016	bMERB domain containing 1 [Source:NCBI gene;Acc:713757]	1.170849036	7.31E-08	8.38E-07
ENSMMUG00000010367	myosin heavy chain 11 [Source:VGNC Symbol;Acc:VGNC:75097]	0.607039257	6.23E-07	5.90E-06
ENSMMUG00000060959		1.010871546	0.000195793	0.001050748
ENSMMUG00000058281	ITPRIP like 2 [Source:NCBI gene;Acc:694060]	1.789314279	3.13E-05	0.000201867
ENSMMUG00000053309		0.342107248	0.008827448	0.028814549
ENSMMUG00000002709	G protein-coupled receptor class C group 5 member B [Source:VGNC Symbol;Acc:VGNC:72934]	0.597298626	0.003440203	0.01280987
ENSMMUG00000016753	dynein axonemal heavy chain 3 [Source:VGNC Symbol;Acc:VGNC:71941]	1.217623501	1.66E-11	3.59E-10
ENSMMUG00000016758	transmembrane protein 159 [Source:VGNC Symbol;Acc:VGNC:79836]	0.490594865	0.01118783	0.035176444
ENSMMUG00000017725	eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]	0.770055098	3.32E-08	4.07E-07
ENSMMUG00000002257	RNA polymerase III subunit E [Source:VGNC Symbol;Acc:VGNC:76142]	0.571611589	9.46E-07	8.59E-06
ENSMMUG00000013877	otoancorin [Source:VGNC Symbol;Acc:VGNC:75624]	0.940162324	0.012005675	0.037321121
ENSMMUG00000058042	heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]	0.813316955	5.90E-05	0.000356563
ENSMMUG00000054064		1.776514279	5.87E-14	1.82E-12
ENSMMUG00000013560	calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]	0.800464695	0.000197199	0.001057487
ENSMMUG00000001407	solute carrier family 5 member 11 [Source:VGNC Symbol;Acc:VGNC:77759]	0.365402316	0.002673125	0.010332204
ENSMMUG00000029176	Rho GTPase activating protein 17 [Source:NCBI gene;Acc:701988]	0.893566857	9.60E-12	2.17E-10
ENSMMUG00000005942	leucine carboxyl methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:74067]	0.529553651	3.83E-05	0.000242136
ENSMMUG00000008254	general transcription factor IIIC subunit 1 [Source:VGNC Symbol;Acc:VGNC:73316]	3.026509938	0.012318303	0.038079079
ENSMMUG00000015572	GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]	0.74456644	6.93E-09	9.56E-08
ENSMMUG00000018623	exportin 6 [Source:NCBI gene;Acc:704332]	0.922228852	0.005277944	0.018530948
ENSMMUG00000023526	ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 1 [Source:NCBI gene;Acc:708058]	2.395035369	0.002488537	0.009720546
ENSMMUG00000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	1.858802178	3.44E-38	1.28E-35

ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	1.499571563	2.50E-34	6.60E-32
ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	1.629286175	4.28E-36	1.40E-33
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	1.522985832	1.74E-21	1.24E-19
		-		
ENSMMUG00000022334	sulfotransferase 1A1 [Source:NCBI gene;Acc:114669765]	2.076533339	0.010031212	0.032057358
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	2.318648181	7.75E-45	4.73E-42
		-		
ENSMMUG00000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	3.589251986	3.33E-17	1.56E-15
ENSMMUG00000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	-1.70089309	3.52E-09	5.15E-08
ENSMMUG00000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	-1.701112	1.55E-12	3.91E-11
ENSMMUG00000000983	aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]	-1.31020559	1.00E-07	1.12E-06
		-		
ENSMMUG00000037707	TLC domain containing 3B [Source:NCBI gene;Acc:708210]	1.278011957	0.000106095	0.000601848
		-		
ENSMMUG00000020277	double C2 domain alpha [Source:VGNC Symbol;Acc:VGNC:71963]	0.383809673	0.000167332	0.000910908
ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	1.273138541	2.14E-08	2.71E-07
ENSMMUG00000061749	PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]	0.846352136	2.20E-12	5.41E-11
ENSMMUG00000019826	MYC associated zinc finger protein [Source:NCBI gene;Acc:708982]	0.642073061	0.000965035	0.004270335
ENSMMUG00000009684	kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]	1.407089938	1.55E-09	2.39E-08
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	1.633818963	5.41E-18	2.74E-16
ENSMMUG00000016876	integrin subunit alpha L [Source:NCBI gene;Acc:711945]	0.714031577	9.54E-06	6.95E-05
ENSMMUG00000016879	zinc finger protein 768 [Source:VGNC Symbol;Acc:VGNC:82280]	2.719785301	0.000601106	0.002846779
		-		
ENSMMUG00000001121	zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]	0.987849945	0.000145121	0.000801744
ENSMMUG00000005625	fibrosin [Source:NCBI gene;Acc:712741]	2.047168796	0.002423325	0.00951352
ENSMMUG00000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	1.195111541	2.98E-10	5.21E-09
ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	0.948882078	6.70E-10	1.10E-08
ENSMMUG00000050996	zinc finger protein 629 [Source:NCBI gene;Acc:713331]	-0.45377056	0.008493603	0.02793288
ENSMMUG00000003233	SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]	0.994164813	9.50E-08	1.07E-06
ENSMMUG00000037727	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7 [Source:NCBI gene;Acc:714136]	0.80982481	1.20E-05	8.56E-05
ENSMMUG00000048207	syntaxin 4 [Source:NCBI gene;Acc:704880]	0.649586583	3.64E-07	3.64E-06
ENSMMUG00000002033	serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]	0.698629704	1.31E-07	1.42E-06
ENSMMUG00000014349	integrin subunit alpha X [Source:NCBI gene;Acc:100427850]	1.656345365	4.41E-06	3.50E-05
ENSMMUG00000000901	alpha hemoglobin stabilizing protein [Source:VGNC Symbol;Acc:VGNC:69631]	0.735537431	7.94E-08	9.06E-07
ENSMMUG00000058907		1.630805052	0.000577954	0.002745476
ENSMMUG00000055973	phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]	2.498108729	5.97E-05	0.000359977
ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]	1.442709605	8.71E-18	4.27E-16
		-		
ENSMMUG00000003288	glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]	1.091474842	1.28E-06	1.13E-05
		-		
ENSMMUG00000019869	sorting nexin 20 [Source:VGNC Symbol;Acc:VGNC:77796]	0.805204937	0.015780343	0.04695263
		-		
ENSMMUG00000012209	CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]	0.741718523	0.000123949	0.000694146
		-		
ENSMMUG00000055889		0.885546508	0.00542594	0.018974552
ENSMMUG00000064095		3.038809043	2.02E-05	0.000137183
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	2.041500323	3.56E-07	3.57E-06
		-		
ENSMMUG00000043440	RB transcriptional corepressor like 2 [Source:NCBI gene;Acc:696992]	0.536618939	0.00167771	0.006903322
ENSMMUG00000020583	FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]	0.487779874	0.005658211	0.019630155
ENSMMUG00000054811		2.594003098	0.000748628	0.003432965
ENSMMUG00000056555		1.555318196	1.52E-15	5.84E-14

ENSMMUG00000023525	cadherin 5 [Source:VGNC Symbol;Acc:VGNC:70973]	-	0.389808419	0.009031745	0.029392473
ENSMMUG00000049484			-0.85950763	2.59E-11	5.40E-10
ENSMMUG00000020847	CKLF like MARVEL transmembrane domain containing 3 [Source:VGNC Symbol;Acc:VGNC:71215]	-	1.129576962	0.000887875	0.00397531
ENSMMUG00000011268	dynein cytoplasmic 1 light intermediate chain 2 [Source:VGNC Symbol;Acc:VGNC:71954]	-	0.356204836	0.001353956	0.005729189
ENSMMUG00000054235			0.600113672	0.011200236	0.035207555
ENSMMUG00000016727	cadherin 16 [Source:VGNC Symbol;Acc:VGNC:70809]		0.339707077	0.000306941	0.001565176
ENSMMUG00000022825	carboxylesterase 2 [Source:VGNC Symbol;Acc:VGNC:71012]		0.444550358	2.88E-06	2.36E-05
ENSMMUG00000064237			-1.2160487	1.97E-07	2.06E-06
ENSMMUG00000054948			1.046691752	0.008487583	0.027926179
ENSMMUG00000058815	core-binding factor subunit beta [Source:NCBI gene;Acc:695767]		0.70949688	0.011132472	0.035010239
ENSMMUG00000018102	chromosome 20 C16orf70 homolog [Source:VGNC Symbol;Acc:VGNC:70438]		1.234170527	0.000207695	0.001108258
ENSMMUG00000060314	TNFRSF1A associated via death domain [Source:NCBI gene;Acc:698160]		1.224381189	0.012159308	0.037673438
ENSMMUG00000005906	heat shock transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:73533]		0.749037006	3.39E-05	0.000217007
ENSMMUG00000020268	nucleolar protein 3 [Source:NCBI gene;Acc:696747]		0.889319009	0.00321389	0.012066502
ENSMMUG00000020266	KIAA0895 like [Source:VGNC Symbol;Acc:VGNC:73952]		1.539937808	0.000495065	0.002389775
ENSMMUG00000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]		1.165352464	3.20E-11	6.55E-10
ENSMMUG00000020258	E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]		0.932939803	5.19E-08	6.10E-07
ENSMMUG00000020259	engulfment and cell motility 3 [Source:VGNC Symbol;Acc:VGNC:72060]		1.190709756	0.005044766	0.017844595
ENSMMUG00000054637	tubulin polymerization promoting protein family member 3 [Source:NCBI gene;Acc:100429881]		1.680861936	0.009372272	0.030303752
ENSMMUG00000009825	zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]		0.91952882	3.93E-08	4.73E-07
ENSMMUG00000017105	RHO family interacting cell polarization regulator 1 [Source:NCBI gene;Acc:699910]		-0.52244778	6.61E-05	0.000394438
ENSMMUG00000007804	RAN binding protein 10 [Source:VGNC Symbol;Acc:VGNC:76563]		0.980179503	3.61E-08	4.38E-07
ENSMMUG00000037975	solute carrier family 7 member 6 [Source:NCBI gene;Acc:702903]		-0.70185693	0.000871158	0.003911703
ENSMMUG00000059872			1.309268714	0.007458441	0.02495579
ENSMMUG00000010393	cadherin 3 [Source:VGNC Symbol;Acc:VGNC:70971]		0.387160344	0.00052914	0.002535061
ENSMMUG00000011850	cadherin 1 [Source:VGNC Symbol;Acc:VGNC:70803]		1.031616928	1.81E-07	1.91E-06
ENSMMUG00000012039	cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]		1.137474491	0.010264058	0.032674888
ENSMMUG00000018255	nuclear factor of activated T cells 5 [Source:VGNC Symbol;Acc:VGNC:75325]		0.681201438	0.00011501	0.000648224
ENSMMUG00000049699	thioredoxin like 4B [Source:NCBI gene;Acc:706840]		1.074900184	0.006666686	0.02261175
ENSMMUG00000023312	haptoglobin [Source:NCBI gene;Acc:706640]		1.189661304	0.002019044	0.008131263
ENSMMUG00000016717	polycystin 1 like 3, transient receptor potential channel interacting [Source:VGNC Symbol;Acc:VGNC:75846]		1.190169935	9.33E-05	0.000536142
ENSMMUG00000009688	IST1 factor associated with ESCRT-III [Source:VGNC Symbol;Acc:VGNC:73675]		-1.00393539	1.89E-05	0.000128838
ENSMMUG00000010878	adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]		0.959163709	8.94E-09	1.20E-07
ENSMMUG00000052324	MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]		0.586462129	0.000916161	0.004076666
ENSMMUG00000002018	tyrosine aminotransferase [Source:VGNC Symbol;Acc:VGNC:78100]		0.593252376	8.03E-06	5.98E-05
ENSMMUG00000005751	adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]		1.646274042	0.001322372	0.005619281
ENSMMUG00000050837			2.332119629	0.002675047	0.010336784
ENSMMUG00000003916	contactin associated protein family member 4 [Source:VGNC Symbol;Acc:VGNC:71209]		1.232586222	0.012143871	0.037633925
ENSMMUG00000010610	WW domain containing oxidoreductase [Source:VGNC Symbol;Acc:VGNC:78805]		1.48511714	1.67E-06	1.43E-05

ENSMMUG00000053231		-	0.583185619	0.002337821	0.009206198
ENSMMUG00000037756	MAF bZIP transcription factor [Source:NCBI gene;Acc:106995090]		0.549853328	0.002478216	0.009694421
ENSMMUG00000005334	phospholipase C gamma 2 [Source:VGNC Symbol;Acc:VGNC:76170]		-0.60408952	2.32E-05	0.00015475
ENSMMUG000000062047			0.909222659	0.006649849	0.022578894
ENSMMUG000000057329			1.754835116	0.000126424	0.000706875
ENSMMUG00000020114	cadherin 13 [Source:VGNC Symbol;Acc:VGNC:70807]		1.566795825	0.0008619	0.003873913
ENSMMUG00000011893	KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]		0.816526987	1.27E-05	8.97E-05
ENSMMUG00000011894	CBY1 interacting BAR domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72335]		0.814848679	0.00184135	0.007497461
ENSMMUG000000061995			0.991835816	3.01E-09	4.44E-08
ENSMMUG00000020592	Gse1 coiled-coil protein [Source:VGNC Symbol;Acc:VGNC:73254]		0.760097992	0.005625736	0.019541662
ENSMMUG00000006763	cytochrome c oxidase subunit IV isoform 1 [Source:NCBI gene;Acc:693811]		0.691694056	2.88E-05	0.000186897
ENSMMUG000000060536			-2.10005697	0.00013326	0.00074067
ENSMMUG000000054493			0.775810587	7.40E-08	8.48E-07
ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]		1.156012388	3.00E-20	1.91E-18
ENSMMUG00000022867	kelch domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74122]		0.654146564	0.000469856	0.002282957
ENSMMUG000000058437			1.564308906	1.61E-10	2.97E-09
ENSMMUG000000052851	solute carrier family 7 member 5 [Source:NCBI gene;Acc:695886]		0.921452849	0.000346369	0.00173469
ENSMMUG000000064830			0.817268838	0.000412123	0.002027788
ENSMMUG000000054935			1.164313489	0.015026007	0.045004208
ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]		4.147461906	1.15E-09	1.81E-08
ENSMMUG00000008942	carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]		4.630068599	6.28E-11	1.23E-09
ENSMMUG000000058864			2.516854955	0.011245742	0.035313277
ENSMMUG000000051690			-2.78190505	0.005534395	0.019281694
ENSMMUG00000015702	divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]		4.798825596	5.07E-06	3.96E-05
ENSMMUG00000020905	chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]		3.312259372	2.75E-06	2.26E-05
ENSMMUG000000056477			0.368650698	0.015501561	0.046231049
ENSMMUG000000050516			0.433171309	0.004899058	0.017423154
ENSMMUG000000060966			1.868414228	0.001834908	0.0074734
ENSMMUG00000018275	docking protein 6 [Source:VGNC Symbol;Acc:VGNC:71915]		0.943725254	0.00034951	0.001747365
ENSMMUG000000057825			3.015547595	5.58E-05	0.000339743
ENSMMUG00000001245	zinc finger protein 532 [Source:NCBI gene;Acc:701146]		4.972975639	5.09E-08	5.98E-07
ENSMMUG000000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]		5.500736193	2.11E-10	3.77E-09
ENSMMUG000000065131			3.655513919	8.65E-05	0.000500673
ENSMMUG00000012001	transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]		0.980486047	3.87E-06	3.10E-05
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]		2.309987188	6.35E-12	1.47E-10

ENSMMUG00000015952	katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]	1.63838486	0.000131353	0.000731519
ENSMMUG00000043738		1.637939679	0.001711924	0.007023496
ENSMMUG00000004498	protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]	1.434864046	0.000356146	0.001775413
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	2.597900118	7.20E-29	1.16E-26
ENSMMUG00000017246	lipoygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	1.854909022	2.43E-23	2.08E-21
ENSMMUG00000017243	ring finger protein 165 [Source:VGNC Symbol;Acc:VGNC:76877]	1.170515875	0.000147242	0.000811304
ENSMMUG00000004997	SET binding protein 1 [Source:NCBI gene;Acc:699652]	1.470832643	0.001306959	0.005564065
ENSMMUG00000049194		1.915999043	0.0027796	0.010690712
ENSMMUG00000006866	CUGBP Elav-like family member 4 [Source:VGNC Symbol;Acc:VGNC:70945]	2.260314679	0.005046828	0.017844595
ENSMMUG00000006864	KIAA1328 ortholog [Source:NCBI gene;Acc:709850]	2.899731368	0.00489062	0.017406388
ENSMMUG00000018785	elongator acetyltransferase complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72069]	0.485450173	0.000156138	0.000856956
ENSMMUG00000018777	regulation of nuclear pre-mRNA domain containing 1A [Source:VGNC Symbol;Acc:VGNC:77103]	0.498132122	0.016154678	0.047859089
ENSMMUG00000003302	dystrobrevin alpha [Source:VGNC Symbol;Acc:VGNC:72007]	1.469097443	6.25E-05	0.000375669
ENSMMUG00000017276	nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]	1.057168409	2.65E-06	2.19E-05
ENSMMUG00000014451	ASXL transcriptional regulator 3 [Source:VGNC Symbol;Acc:VGNC:70152]	0.674623428	2.14E-05	0.000143747
ENSMMUG00000016674	beta-1,4-galactosyltransferase 6 [Source:VGNC Symbol;Acc:VGNC:70213]	2.279286513	0.007879534	0.026177376
ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]	3.586318256	9.76E-10	1.56E-08
ENSMMUG00000021095	desmoglein 2 [Source:VGNC Symbol;Acc:VGNC:72002]	3.655427386	1.51E-05	0.000104837
ENSMMUG00000021094	desmoglein 3 [Source:VGNC Symbol;Acc:VGNC:72003]	3.088921182	0.000120778	0.00067801
ENSMMUG00000011690	desmocollin 1 [Source:VGNC Symbol;Acc:VGNC:71996]	1.235105182	0.001472074	0.006162058
ENSMMUG000000060604		1.386188032	0.006727266	0.022786581
ENSMMUG00000010944	GATA binding protein 6 [Source:VGNC Symbol;Acc:VGNC:72891]	0.851086113	5.19E-05	0.000318318
ENSMMUG00000064806		0.732899869	0.01060238	0.033576599
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	1.246312614	9.74E-12	2.20E-10
ENSMMUG00000052605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.874336717	3.21E-05	0.000206323
ENSMMUG00000005086	homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]	1.512863967	2.30E-10	4.09E-09
ENSMMUG00000041530	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.431186214	0.008370306	0.027585617
ENSMMUG00000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	2.016780134	1.12E-30	2.18E-28
ENSMMUG00000016302	L3MBTL histone methyl-lysine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:74133]	0.504689683	0.000515129	0.002473856
ENSMMUG00000000768	protein tyrosine phosphatase receptor type M [Source:VGNC Symbol;Acc:VGNC:76619]	0.594954773	0.000116492	0.000655787
ENSMMUG00000015761	microtubule crosslinking factor 1 [Source:VGNC Symbol;Acc:VGNC:74852]	0.359700097	0.011487782	0.035998473
ENSMMUG00000053008		1.505505192	1.71E-07	1.82E-06

ENSMMUG00000049556	NADH:ubiquinone oxidoreductase core subunit V2 [Source:NCBI gene;Acc:706067]	0.819166834	0.008135713	0.026920035
ENSMMUG00000049523	ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]	1.399089566	5.69E-06	4.40E-05
ENSMMUG00000023717	MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]	1.181142727	3.13E-09	4.61E-08
ENSMMUG00000059175		3.127645986	3.45E-38	1.28E-35
ENSMMUG00000053083	C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]	3.186463183	1.08E-17	5.25E-16
ENSMMUG00000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]	-0.61623539	6.01E-07	5.72E-06
ENSMMUG00000055423	fibroblast growth factor 22 [Source:NCBI gene;Acc:702727]	0.434011959	0.000355223	0.00177144
ENSMMUG00000008672	ring finger protein 126 [Source:VGNC Symbol;Acc:VGNC:76791]	0.627996513	0.004720007	0.01688917
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	2.960393513	1.32E-08	1.73E-07
ENSMMUG00000009674	elastase, neutrophil expressed [Source:VGNC Symbol;Acc:VGNC:72199]	1.50115394	0.016101417	0.047725675
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	3.097049108	2.17E-49	1.69E-46
ENSMMUG00000009677	mediator complex subunit 16 [Source:VGNC Symbol;Acc:VGNC:74525]	0.579052448	0.004848838	0.01728363
ENSMMUG00000002278	AT-rich interaction domain 3A [Source:VGNC Symbol;Acc:VGNC:69930]	1.112329204	0.001190547	0.005132198
ENSMMUG00000058621		1.168878224	1.37E-05	9.61E-05
ENSMMUG00000002638	WD repeat domain 18 [Source:VGNC Symbol;Acc:VGNC:79103]	0.745406139	0.001306998	0.005564065
ENSMMUG00000015306	calponin 2 [Source:NCBI gene;Acc:721164]	0.993951452	2.87E-12	6.95E-11
ENSMMUG00000015303	ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]	1.036100792	7.80E-12	1.78E-10
ENSMMUG00000058856	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.235486391	0.000307204	0.001565947
ENSMMUG00000015301	Rho GTPase activating protein 45 [Source:VGNC Symbol;Acc:VGNC:69847]	0.346866136	0.002299025	0.009070679
ENSMMUG00000010886	strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]	0.896088954	8.64E-06	6.37E-05
ENSMMUG00000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.083803959	5.60E-13	1.51E-11
ENSMMUG00000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	1.58296772	6.45E-15	2.30E-13
ENSMMUG00000003047	DAZ associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71738]	0.289437303	0.001251276	0.005365944
ENSMMUG00000022104	family with sequence similarity 174 member C [Source:NCBI gene;Acc:706393]	0.548546797	3.16E-06	2.57E-05
ENSMMUG00000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]	0.734625717	1.47E-05	0.000102222
ENSMMUG00000003056	proprotein convertase subtilisin/kexin type 4 [Source:VGNC Symbol;Acc:VGNC:75786]	0.436994027	0.000171421	0.000930636
ENSMMUG00000009017	transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:78287]	0.452504031	1.88E-06	1.59E-05
ENSMMUG00000006620	casein kinase 1 gamma 2 [Source:NCBI gene;Acc:709484]	0.663855581	0.003926801	0.014403747
ENSMMUG00000059725		1.103076018	0.000375247	0.001860053
ENSMMUG00000015663	adaptor related protein complex 3 subunit delta 1 [Source:VGNC Symbol;Acc:VGNC:69969]	0.92918665	8.51E-07	7.82E-06
ENSMMUG00000017949	ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]	0.731188689	8.28E-13	2.17E-11
ENSMMUG00000000452	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]	2.153659838	5.95E-05	0.000358842
ENSMMUG00000055417		0.819649011	3.51E-07	3.52E-06
ENSMMUG00000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.612018488	1.19E-15	4.64E-14
ENSMMUG00000007268	thimet oligopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78347]	0.611502122	0.000644799	0.00300399
ENSMMUG00000007485	zinc finger protein 555 [Source:VGNC Symbol;Acc:VGNC:79705]	0.875491622	0.000111062	0.000627486
ENSMMUG00000002912	TLE family member 6, subcortical maternal complex member [Source:VGNC Symbol;Acc:VGNC:79879]	0.669524712	0.008735247	0.028613494
ENSMMUG00000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	0.868664322	9.18E-14	2.75E-12
ENSMMUG00000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	2.289597702	3.63E-23	3.05E-21
ENSMMUG00000015513	CUGBP Elav-like family member 5 [Source:NCBI gene;Acc:721694]	1.251531406	0.004917163	0.017483107
ENSMMUG00000060497		1.431572269	0.002621162	0.010176234
ENSMMUG00000003439	nuclear factor I C [Source:VGNC Symbol;Acc:VGNC:75336]	0.899010152	0.003377319	0.01260584
ENSMMUG00000044080	mitochondrial ribosomal protein L54 [Source:NCBI gene;Acc:713878]	1.143334512	4.74E-06	3.73E-05
ENSMMUG00000001917	megakaryocyte-associated tyrosine kinase [Source:NCBI gene;Acc:100430078]	1.094317279	1.70E-08	2.20E-07

ENSMMUG00000054579	zinc finger RNA binding protein 2 [Source:NCBI gene;Acc:100430166]	1.259568368	1.04E-05	7.53E-05
ENSMMUG00000022765	death associated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:71734]	1.753005806	0.013951668	0.042374755
ENSMMUG00000022767	eukaryotic translation elongation factor 2 [Source:NCBI gene;Acc:721806]	2.721541379	0.001602739	0.006629853
ENSMMUG00000019564	mitogen-activated protein kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81453]	0.431248813	0.00051728	0.002482486
ENSMMUG00000028928	ankyrin repeat domain 24 [Source:NCBI gene;Acc:721829]	0.732225257	1.48E-07	1.58E-06
ENSMMUG00000028927	Src homology 2 domain containing transforming protein D [Source:VGNC Symbol;Acc:VGNC:77353]	1.052452574	0.011414076	0.0357915
ENSMMUG00000045860	transmembrane and immunoglobulin domain containing 2 [Source:NCBI gene;Acc:721840]	1.774711992	0.003703323	0.013684241
ENSMMUG00000028925	HDGF like 2 [Source:NCBI gene;Acc:693476]	2.567895589	1.03E-05	7.47E-05
ENSMMUG00000022656	perilipin 4 [Source:NCBI gene;Acc:693610]	1.437866991	0.000962156	0.004262975
ENSMMUG00000062995		0.819714736	8.05E-06	5.99E-05
ENSMMUG00000058275	arrestin domain containing 5 [Source:NCBI gene;Acc:697277]	0.663163698	0.000944399	0.004186943
ENSMMUG00000012677	lysine demethylase 4B [Source:VGNC Symbol;Acc:VGNC:73930]	0.658027219	0.00121745	0.005240115
ENSMMUG00000011962	protein tyrosine phosphatase receptor type S [Source:VGNC Symbol;Acc:VGNC:76622]	1.026469116	6.95E-05	0.000412022
ENSMMUG00000016665	NADH:ubiquinone oxidoreductase subunit A11 [Source:NCBI gene;Acc:697843]	1.007177513	0.000844699	0.003814883
ENSMMUG00000011963	vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]	-0.69978742	1.37E-08	1.80E-07
ENSMMUG00000011964	RAN binding protein 3 [Source:VGNC Symbol;Acc:VGNC:76655]	0.550714737	0.001777472	0.007258441
ENSMMUG00000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	-1.67278806	4.32E-05	0.000269938
ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]	2.571635753	9.81E-09	1.31E-07
ENSMMUG00000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]	1.142554005	6.01E-07	5.72E-06
ENSMMUG00000063988		1.747209658	2.73E-05	0.000178446
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	0.844499225	1.37E-10	2.55E-09
ENSMMUG00000057682		0.93581088	1.89E-09	2.88E-08
ENSMMUG00000028907	insulin receptor [Source:NCBI gene;Acc:706009]	2.258477486	9.84E-09	1.32E-07
ENSMMUG00000028906	Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]	1.637075	0.000284277	0.001464519
ENSMMUG00000022463	C-type lectin CD209L2 [Source:NCBI gene;Acc:574373]	1.257832202	0.008135356	0.026920035
ENSMMUG00000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.655801087	5.16E-24	4.86E-22
ENSMMUG00000014032	proline rich 36 [Source:NCBI gene;Acc:710443]	2.502060735	0.002650219	0.010263469
ENSMMUG00000010614	C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]	4.120029965	4.58E-06	3.62E-05
ENSMMUG00000061632	fibrillin 3 [Source:NCBI gene;Acc:709446]	0.987010163	5.63E-06	4.36E-05
ENSMMUG00000016695	CD320 molecule [Source:VGNC Symbol;Acc:VGNC:70763]	0.892141518	0.008917012	0.029073066
ENSMMUG00000064610	long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]	1.162452662	2.00E-08	2.55E-07
ENSMMUG00000049311	zinc finger protein 558 [Source:NCBI gene;Acc:712590]	-0.65194245	8.18E-07	7.54E-06
ENSMMUG00000019965	methyl-CpG binding domain protein 3 like 1 [Source:VGNC Symbol;Acc:VGNC:74513]	1.810652845	0.004702891	0.01683222
ENSMMUG00000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	1.581843583	2.95E-22	2.29E-20
ENSMMUG00000018883	zinc finger protein 177 [Source:NCBI gene;Acc:709851]	0.64546467	0.002778164	0.010688119
ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	0.929991783	1.46E-05	0.000101622
ENSMMUG00000042707	angiopoietin like 6 [Source:NCBI gene;Acc:106994633]	1.657919455	5.08E-09	7.22E-08
ENSMMUG00000014897	ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]	0.700301639	0.000928688	0.004126422
ENSMMUG00000003110	tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:78680]	-0.57025484	0.00310651	0.011722978
ENSMMUG00000046883	autophagy related 4D cysteine peptidase [Source:NCBI gene;Acc:713111]	0.952215552	0.011490917	0.036000252
ENSMMUG00000003744	solute carrier family 44 member 2 [Source:VGNC Symbol;Acc:VGNC:77498]	0.794588642	1.66E-08	2.15E-07
ENSMMUG00000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	2.065106138	5.87E-36	1.83E-33

ENSMMUG00000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.304167011	5.73E-45	3.65E-42
ENSMMUG00000004400	Yip1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:79717]	0.596608912	0.000299011	0.001530863
ENSMMUG00000003611	low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:74248]	0.965707741	0.001669791	0.006876792
ENSMMUG00000003612	SPC24 component of NDC80 kinetochore complex [Source:VGNC Symbol;Acc:VGNC:78002]	1.469783783	0.006062639	0.020842459
ENSMMUG00000023251	KN motif and ankyrin repeat domains 2 [Source:VGNC Symbol;Acc:VGNC:73938]	0.672802425	0.00632984	0.021623227
ENSMMUG00000043134	coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]	1.372411229	0.006074839	0.020874163
ENSMMUG00000022207	phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]	1.218383782	0.004221035	0.015350513
ENSMMUG00000010824	SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]	1.606543607	0.000123306	0.000690821
ENSMMUG00000038989	erythropoietin receptor [Source:NCBI gene;Acc:714546]	1.770917598	0.004446624	0.016041938
ENSMMUG00000002974	acid phosphatase 5, tartrate resistant [Source:VGNC Symbol;Acc:VGNC:69384]	2.16030554	0.014436211	0.043591514
ENSMMUG00000001715	zinc finger protein 627 [Source:VGNC Symbol;Acc:VGNC:79856]	0.606626149	0.00096903	0.004285307
ENSMMUG00000053329		1.208083626	0.000700267	0.003235534
ENSMMUG00000012587	zinc finger protein 69 [Source:NCBI gene;Acc:717030]	0.788112894	0.00768448	0.025626508
ENSMMUG00000064114	zinc finger protein 709 [Source:NCBI gene;Acc:100427466]	0.950301954	6.64E-05	0.000395412
ENSMMUG00000005236	zinc finger protein 709 [Source:NCBI gene;Acc:717515]	1.047720224	0.000669498	0.003107701
ENSMMUG00000058614		2.411651078	0.000195115	0.001047914
ENSMMUG00000016860	zinc finger protein 490 [Source:NCBI gene;Acc:100426568]	-1.28132603	1.44E-05	0.000100435
ENSMMUG00000016862	zinc finger protein 791 [Source:VGNC Symbol;Acc:VGNC:79639]	1.151919522	0.001169507	0.00505393
ENSMMUG00000005689	peroxiredoxin 2 [Source:NCBI gene;Acc:716665]	2.052853586	0.016292756	0.048134057
ENSMMUG00000008740	microtubule associated serine/threonine kinase 1 [Source:VGNC Symbol;Acc:VGNC:82182]	1.043821591	0.011881895	0.037001958
ENSMMUG00000007043	glutaryl-CoA dehydrogenase [Source:VGNC Symbol;Acc:VGNC:72898]	0.677930703	4.33E-05	0.000270402
ENSMMUG00000019292	nuclear factor I X [Source:VGNC Symbol;Acc:VGNC:75338]	0.278131204	0.004726145	0.016906821
ENSMMUG00000001167	tRNA methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:79562]	0.444976841	0.014741352	0.044322038
ENSMMUG00000017971	nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]	1.494686303	0.00053239	0.00254889
ENSMMUG00000057038		1.457799044	9.97E-05	0.000569095
ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	1.845964634	3.54E-34	9.20E-32
ENSMMUG00000003555	calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]	0.642170232	0.000318727	0.001617116
ENSMMUG00000058941	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.083349772	0.002840612	0.010889529
ENSMMUG00000060000		1.734518333	2.43E-05	0.000161224
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	1.334138172	7.34E-11	1.43E-09
ENSMMUG00000005729	GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]	0.64918412	0.001529848	0.006362997
ENSMMUG00000017906	DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]	1.946700905	2.04E-06	1.71E-05
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	1.731036225	4.49E-23	3.74E-21
ENSMMUG00000060289		1.626191072	1.55E-22	1.24E-20
ENSMMUG00000053889	olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]	0.881536302	0.008804887	0.02876769
ENSMMUG00000064639	olfactory receptor 7A10-like [Source:NCBI gene;Acc:114674167]	1.98828752	0.012576072	0.038776222
ENSMMUG00000053457	caspase 14 [Source:NCBI gene;Acc:718049]	2.79905263	5.53E-13	1.49E-11
ENSMMUG00000053220	olfactory receptor 111 [Source:NCBI gene;Acc:719077]	2.536539219	4.17E-05	0.000261813
ENSMMUG00000007726	synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]	2.069254479	2.59E-06	2.15E-05
ENSMMUG00000007729	ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]	1.62182144	8.41E-07	7.74E-06
ENSMMUG00000028863	WIZ zinc finger [Source:VGNC Symbol;Acc:VGNC:79901]	0.624264666	0.008835904	0.02883544

ENSMMUG00000016996	cytochrome P450, family 4, subfamily F, polypeptide 22 [Source:NCBI gene;Acc:718303]	0.653255986	0.000585304	0.002777568
ENSMMUG00000010734	cytochrome P450, family 4, subfamily F, polypeptide 8 [Source:NCBI gene;Acc:718335]	0.284902502	0.013147626	0.040290462
ENSMMUG000000057552	hematopoietic SH2 domain containing [Source:NCBI gene;Acc:719440]	3.076996344	0.007394814	0.02477245
ENSMMUG00000004283	calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]	2.113415388	1.77E-06	1.51E-05
ENSMMUG00000000994	epidermal growth factor receptor pathway substrate 15 like 1 [Source:VGNC Symbol;Acc:VGNC:72100]	1.852176579	0.000912515	0.004066576
ENSMMUG000000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.248853135	2.55E-10	4.51E-09
ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]	1.165098306	6.60E-08	7.64E-07
ENSMMUG00000042837	mediator complex subunit 26 [Source:NCBI gene;Acc:100424604]	0.540084998	0.015105472	0.045203591
ENSMMUG00000018503	NACHT and WD repeat domain containing 1 [Source:NCBI gene;Acc:719640]	0.52804842	0.000450158	0.002197201
ENSMMUG000000057655		-		
ENSMMUG00000011588	myosin IXB [Source:HGNC Symbol;Acc:HGNC:7609]	0.860569581	3.09E-06	2.52E-05
ENSMMUG000000013923	BRISC and BRCA1 A complex member 1 [Source:VGNC Symbol;Acc:VGNC:70126]	0.555863001	0.00764706	0.025519924
ENSMMUG000000023403	GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]	-		
ENSMMUG00000000194	solute carrier family 27 member 1 [Source:VGNC Symbol;Acc:VGNC:77438]	0.485476351	0.010928518	0.034477077
ENSMMUG00000000196	niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]	3.360317534	1.26E-05	8.92E-05
ENSMMUG000000059371	collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]	0.746297902	8.05E-05	0.000470461
ENSMMUG000000015476	unc-13 homolog A [Source:NCBI gene;Acc:720000]	1.162675818	4.98E-05	0.000306165
ENSMMUG00000010996	Janus kinase 3 [Source:VGNC Symbol;Acc:VGNC:73812]	1.134439551	0.002825456	0.010846255
ENSMMUG00000038308	coiled-coil domain containing 124 [Source:NCBI gene;Acc:720072]	0.846330141	3.64E-09	5.31E-08
ENSMMUG00000007398	potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]	0.81902298	2.63E-08	3.27E-07
ENSMMUG00000007401	arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]	0.569893633	6.09E-07	5.79E-06
ENSMMUG00000003161	microtubule associated serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:74533]	-0.85566552	0.001121836	0.004876473
ENSMMUG00000005028	phosphodiesterase 4C [Source:NCBI gene;Acc:720171]	-		
ENSMMUG00000016354	IQ motif containing N [Source:VGNC Symbol;Acc:VGNC:73683]	2.190590305	1.79E-05	0.00012273
ENSMMUG00000038371	JunD proto-oncogene, AP-1 transcription factor subunit [Source:NCBI gene;Acc:720182]	1.088847967	8.61E-07	7.89E-06
ENSMMUG00000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	0.509564754	0.000401899	0.001983052
ENSMMUG00000016085	KxDL motif containing 1 [Source:NCBI gene;Acc:720235]	-		
ENSMMUG000000054512	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	1.091367927	4.11E-07	4.05E-06
ENSMMUG00000009988	kelch like family member 26 [Source:NCBI gene;Acc:719583]	0.654454509	0.001159349	0.005016216
ENSMMUG00000064204	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	-		
ENSMMUG00000056644		0.698742787	0.005724663	0.019828002
ENSMMUG00000023286		1.28074619	3.69E-18	1.95E-16
ENSMMUG00000050739		0.573348805	0.007598244	0.025375129
ENSMMUG00000019665	SURP and G-patch domain containing 2 [Source:VGNC Symbol;Acc:VGNC:78163]	1.396458454	0.001121441	0.004876271
ENSMMUG00000008578	hyaluronan and proteoglycan link protein 4 [Source:VGNC Symbol;Acc:VGNC:73261]	2.067535509	1.06E-26	1.39E-24
ENSMMUG00000008931	MAU2 sister chromatid cohesion factor [Source:NCBI gene;Acc:720347]	0.981092293	0.000826642	0.003742977
ENSMMUG00000003164	GATA zinc finger domain containing 2A [Source:NCBI gene;Acc:720361]	0.578489988	0.011500531	0.03601428
ENSMMUG00000011351	YjeF N-terminal domain containing 3 [Source:NCBI gene;Acc:721218]	3.033806028	1.84E-50	1.99E-47
ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	1.407005317	0.000180641	0.000976908
ENSMMUG000000063297		-		
ENSMMUG00000056683		0.875951292	0.001873821	0.007614196
		-		
		1.150057346	0.000234577	0.001237575
		0.579941469	1.01E-06	9.14E-06
		-		
		0.631784351	4.59E-05	0.000284351
		-		
		0.653100805	0.000145956	0.000805802
		1.136076714	4.62E-14	1.47E-12
		1.325761545	0.004743423	0.016955653
		-		
		0.550247013	0.00893694	0.029131266

ENSMMUG00000061085		-	0.801808941	1.06E-07	1.18E-06
ENSMMUG00000062866		-	1.109447959	0.000130142	0.000725927
ENSMMUG00000047027	zinc finger protein 100-like [Source:NCBI gene;Acc:693860]	-	1.011384469	0.000321873	0.001629466
ENSMMUG00000046906		-	0.697401031	0.000512938	0.002467559
ENSMMUG00000061186		-	0.891320289	0.000456189	0.002223814
ENSMMUG00000060408		-	0.921945902	0.008296993	0.027382615
ENSMMUG00000061458	zinc finger protein 681 [Source:NCBI gene;Acc:698090]	-	0.986337804	6.34E-05	0.000379815
ENSMMUG00000059910		-	0.602930305	4.72E-05	0.000291729
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	-	2.970193799	2.30E-39	9.50E-37
ENSMMUG00000063586	zinc finger protein 536 [Source:NCBI gene;Acc:713142]	-	1.274362708	0.001404589	0.005921994
ENSMMUG00000058740		-	1.062029493	2.17E-10	3.88E-09
ENSMMUG00000057215		-	0.963463092	0.003898984	0.014305455
ENSMMUG00000050177		-	1.616558545	3.98E-11	8.01E-10
ENSMMUG00000060455		-	3.008574347	8.50E-06	6.30E-05
ENSMMUG00000008041	ankyrin repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:69693]	-	0.723024975	1.89E-07	1.98E-06
ENSMMUG00000015608	tudor domain containing 12 [Source:VGNC Symbol;Acc:VGNC:82254]	-	0.657782435	0.002740051	0.010563243
ENSMMUG00000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]	-	1.212123201	6.49E-06	4.96E-05
ENSMMUG00000017939	FA core complex associated protein 24 [Source:VGNC Symbol;Acc:VGNC:72388]	-	1.213995047	5.03E-06	3.93E-05
ENSMMUG00000028798	rhopilin Rho GTPase binding protein 2 [Source:NCBI gene;Acc:716602]	-	0.628046376	0.003134061	0.011804712
ENSMMUG00000011790	G-patch domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72996]	-	1.003097443	0.001030008	0.004526419
ENSMMUG00000064983		-	0.810061066	3.20E-05	0.000205829
ENSMMUG00000061372		-	1.183599216	0.001706589	0.007005707
ENSMMUG00000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]	-	-0.6669669	0.001449594	0.006078843
ENSMMUG0000006128	peptidase D [Source:VGNC Symbol;Acc:VGNC:82205]	-	1.323898561	1.18E-07	1.30E-06
ENSMMUG00000011319	potassium channel tetramerization domain containing 15 [Source:VGNC Symbol;Acc:VGNC:73894]	-	0.551542356	0.003329043	0.012455489
ENSMMUG00000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]	-	2.208793789	4.47E-21	3.06E-19
ENSMMUG00000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]	-	0.733975016	1.68E-07	1.79E-06
ENSMMUG00000008313	zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]	-	-0.77794648	4.39E-08	5.24E-07
ENSMMUG00000001538	GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]	-	0.682473175	7.95E-07	7.35E-06
ENSMMUG00000004843	sodium voltage-gated channel beta subunit 1 [Source:VGNC Symbol;Acc:VGNC:76983]	-	0.688186884	0.000248751	0.001303524
ENSMMUG00000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]	-	0.764548231	0.00019994	0.001070546
ENSMMUG00000065025		-	1.296635488	4.64E-12	1.09E-10
ENSMMUG00000002381	lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]	-	0.662402476	1.21E-07	1.33E-06

ENSMMUG0000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]	1.807682285	6.38E-16	2.59E-14
ENSMMUG00000048190	U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]	0.950096737	0.00145573	0.006099608
		-		
ENSMMUG00000062667	leucine rich repeat and fibronectin type III domain containing 3 [Source:NCBI gene;Acc:711565]	0.822375478	0.002292822	0.009049321
ENSMMUG00000053233		-1.31463661	0.000198702	0.00106473
		-		
ENSMMUG00000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]	1.060810797	1.15E-08	1.53E-07
		-		
ENSMMUG00000000547	zinc finger protein 566 [Source:VGNC Symbol;Acc:VGNC:81619]	0.699851204	7.63E-07	7.10E-06
ENSMMUG00000000107	zinc finger protein 585A [Source:NCBI gene;Acc:100424957]	0.401607321	0.006408839	0.021850512
ENSMMUG00000006820	WD repeat domain 87 [Source:NCBI gene;Acc:719441]	0.323299697	0.001108644	0.004825113
ENSMMUG00000028771	Yip1 interacting factor homolog B, membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:79852]	1.176032631	0.001528909	0.006362997
ENSMMUG00000062296	potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]	3.294002599	0.00074128	0.003401497
ENSMMUG00000056109	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.724459458	0.012179803	0.037728602
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	2.10641864	6.19E-06	4.75E-05
ENSMMUG00000038221	proteasome 26S subunit, non-ATPase 8 [Source:NCBI gene;Acc:721897]	0.940136693	6.60E-06	5.03E-05
ENSMMUG00000022973	gametogenetin [Source:VGNC Symbol;Acc:VGNC:72740]	0.630156605	2.82E-05	0.000183677
		-		
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	4.082050539	6.44E-17	2.92E-15
ENSMMUG00000006429	actinin alpha 4 [Source:VGNC Symbol;Acc:VGNC:69432]	1.024030183	0.006795933	0.022974774
ENSMMUG00000006431	calpain 12 [Source:VGNC Symbol;Acc:VGNC:70473]	0.887370158	0.005608076	0.019485145
ENSMMUG00000004877	heterogeneous nuclear ribonucleoprotein L [Source:VGNC Symbol;Acc:VGNC:81187]	1.208464922	2.20E-05	0.000147831
ENSMMUG00000012787	acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]	1.434167024	0.00133821	0.005674544
ENSMMUG00000005554	mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]	4.147812847	6.83E-09	9.45E-08
ENSMMUG00000038702	ZFP36 ring finger protein [Source:NCBI gene;Acc:722000]	3.590080861	0.001122534	0.004876571
ENSMMUG00000019369	pleckstrin homology and RhoGEF domain containing G2 [Source:VGNC Symbol;Acc:VGNC:76133]	2.956845024	0.007194559	0.024211496
ENSMMUG000000048215		2.412762571	7.78E-09	1.06E-07
		-		
ENSMMUG00000022726	dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]	2.126082363	6.58E-07	6.20E-06
		-		
ENSMMUG00000022725	fibrillarin [Source:VGNC Symbol;Acc:VGNC:72619]	2.940346839	8.34E-05	0.00048456
		-		
ENSMMUG00000022724		1.395564621	0.000577898	0.002745476
		-		
ENSMMUG00000051261		1.300373194	2.14E-05	0.00014368
		-		
ENSMMUG00000017191	zinc finger protein 546 [Source:VGNC Symbol;Acc:VGNC:79732]	0.877742827	0.00218528	0.008705733
		-		
ENSMMUG00000041976	zinc finger protein 780B [Source:NCBI gene;Acc:701034]	0.913355823	1.90E-06	1.61E-05
		-		
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	1.248205464	1.71E-12	4.26E-11
ENSMMUG00000053624		-1.04698883	0.000450509	0.00219815
		-		
ENSMMUG00000065016		0.876497597	0.011272463	0.035387005
		-		
ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	1.069346898	2.27E-10	4.04E-09
		-		
ENSMMUG00000022625	periaxin [Source:VGNC Symbol;Acc:VGNC:76248]	1.671707792	2.93E-06	2.40E-05
		-		
ENSMMUG00000015603	biliverdin reductase B [Source:VGNC Symbol;Acc:VGNC:70257]	1.953571791	0.002178922	0.008687807
ENSMMUG00000063763	cytochrome P450 2A13-like [Source:NCBI gene;Acc:114674219]	0.842717989	0.008582086	0.028204028
ENSMMUG00000057008		0.716412268	0.005027332	0.017798101
ENSMMUG00000014345	exosome component 5 [Source:VGNC Symbol;Acc:VGNC:72331]	2.403595235	0.009114411	0.029612735
ENSMMUG00000013422	CEA cell adhesion molecule 4 [Source:NCBI gene;Acc:705453]	1.888822879	0.000120538	0.000676931

ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	1.603369715	3.53E-20	2.20E-18
ENSMMUG00000022305	Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]	1.805222453	1.97E-14	6.58E-13
ENSMMUG00000017427	ATPase Na ⁺ /K ⁺ transporting subunit alpha 3 [Source:NCBI gene;Acc:706513]	1.417507858	0.010949401	0.034535189
ENSMMUG00000017431	glutamate ionotropic receptor kainate type subunit 5 [Source:VGNC Symbol;Acc:VGNC:73280]	-0.74967352	0.006657398	0.022593584
ENSMMUG00000056518		0.915115949	0.01080687	0.034154776
ENSMMUG00000050799		3.130626085	0.003959966	0.014502638
ENSMMUG00000064250		2.811852585	0.000272972	0.001414594
ENSMMUG00000049459	pregnancy specific beta-1-glycoprotein 7 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:9524]	0.479221052	0.004874627	0.017358275
ENSMMUG00000021062	CD177 molecule [Source:VGNC Symbol;Acc:VGNC:70912]	2.441794696	4.98E-06	3.90E-05
ENSMMUG00000003568	testis expressed 101 [Source:VGNC Symbol;Acc:VGNC:79869]	1.066829094	4.51E-05	0.000279988
ENSMMUG00000019265	zinc finger protein 575 [Source:VGNC Symbol;Acc:VGNC:79667]	1.055506433	1.58E-05	0.000109328
ENSMMUG00000004467	X-ray repair cross complementing 1 [Source:NCBI gene;Acc:711457]	0.897840483	5.57E-05	0.00033879
ENSMMUG00000004616	plasminogen activator, urokinase receptor [Source:VGNC Symbol;Acc:VGNC:76163]	2.312720813	0.000266498	0.001386168
ENSMMUG00000021267	potassium calcium-activated channel subfamily N member 4 [Source:NCBI gene;Acc:712383]	0.808773528	1.30E-05	9.19E-05
ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	1.121663967	4.59E-12	1.08E-10
ENSMMUG00000064975	zinc finger protein 221 [Source:NCBI gene;Acc:100423743]	1.091395631	0.000840123	0.003797889
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	1.42293492	4.29E-11	8.58E-10
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	1.540582445	4.33E-28	6.39E-26
ENSMMUG00000012802	zinc finger protein 112 [Source:NCBI gene;Acc:713527]	0.613540776	0.001221282	0.005253385
ENSMMUG00000014301	nectin cell adhesion molecule 2 [Source:VGNC Symbol;Acc:VGNC:75396]	0.940828963	9.91E-09	1.32E-07
ENSMMUG00000014305	apolipoprotein E [Source:HGNC Symbol;Acc:HGNC:613]	-1.31832419	0.014179222	0.042982109
ENSMMUG00000002472	CLPTM1 regulator of GABA type A receptor forward trafficking [Source:VGNC Symbol;Acc:VGNC:71265]	-1.07229252	0.003596448	0.013331479
ENSMMUG00000014155	CLK4 associating serine/arginine rich protein [Source:VGNC Symbol;Acc:VGNC:71198]	1.109564726	0.014431768	0.043587483
ENSMMUG00000022931	NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]	0.955962884	5.54E-09	7.81E-08
ENSMMUG00000018879	exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]	1.063627773	2.81E-08	3.49E-07
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	3.06146054	1.83E-22	1.44E-20
ENSMMUG00000021891	kinesin light chain 3 [Source:VGNC Symbol;Acc:VGNC:73870]	0.676940197	0.004767206	0.017031983
ENSMMUG00000014419	ERCC excision repair 2, TFIIH core complex helicase subunit [Source:VGNC Symbol;Acc:VGNC:72423]	0.435474523	0.000904436	0.004037858
ENSMMUG00000000715	protein phosphatase 1 regulatory subunit 13 like [Source:NCBI gene;Acc:714389]	0.495295738	0.000421861	0.002072071
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	1.315918819	3.07E-08	3.77E-07
ENSMMUG00000000718	ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]	0.854558529	4.75E-05	0.000293367
ENSMMUG00000006936	gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]	1.141332665	2.03E-10	3.65E-09
ENSMMUG000000032809	mml-mir-642 [Source:miRBase;Acc:MI0007885]	1.074341777	1.94E-07	2.03E-06
ENSMMUG00000006940	glutaminyl-peptide cyclotransferase like [Source:VGNC Symbol;Acc:VGNC:76540]	-0.71755484	0.016202057	0.047959682
ENSMMUG00000051115		3.283515062	3.20E-10	5.56E-09
ENSMMUG00000017927	protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]	2.216341928	0.00061878	0.002910819
ENSMMUG00000017930	striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]	3.305131446	0.000291509	0.00149573
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	2.015186313	1.93E-05	0.000131513
ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.527429465	1.04E-11	2.32E-10
ENSMMUG00000014723	kaptin, actin binding protein [Source:VGNC Symbol;Acc:VGNC:74204]	0.825731958	0.000219145	0.001163599

ENSMMUG00000014727	NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]	1.025817965	5.77E-06	4.45E-05
ENSMMUG00000054090		0.774443411	0.001715211	0.007032868
ENSMMUG00000049999	cone-rod homeobox [Source:NCBI gene;Acc:717550]	1.069317277	8.25E-05	0.000479942
ENSMMUG00000006857	epididymal sperm binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72046]	1.539209625	5.59E-07	5.34E-06
ENSMMUG00000014592	zinc finger SWIM-type containing 9 [Source:VGNC Symbol;Acc:VGNC:79949]	0.764526203	0.011873474	0.036983947
ENSMMUG00000017111	caspase recruitment domain-containing protein 8 [Source:NCBI gene;Acc:718576]	0.654186024	0.013934006	0.04233945
ENSMMUG00000042157	caspase recruitment domain-containing protein 8 [Source:NCBI gene;Acc:718594]	0.803506747	6.30E-08	7.32E-07
ENSMMUG00000001791	glutamate rich WD repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:73213]	0.692099481	0.002151442	0.008592898
ENSMMUG00000001793	cytohesin 2 [Source:NCBI gene;Acc:718682]	0.876573373	0.000146234	0.000806753
ENSMMUG00000022155	sulfotransferase family 2B member 1 [Source:NCBI gene;Acc:718739]	0.599554272	0.00775881	0.025837518
ENSMMUG00000022159	sphingosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:77960]	0.799941415	0.005475287	0.019128041
ENSMMUG00000064152	netrin 5 [Source:NCBI gene;Acc:718157]	0.806359261	2.20E-05	0.00014736
ENSMMUG00000019738	galactoside 2-alpha-L-fucosyltransferase 2 [Source:NCBI gene;Acc:722582]	1.503883506	0.005972529	0.020562919
ENSMMUG00000055036	MEF2 activating motif and SAP domain containing transcriptional regulator [Source:NCBI gene;Acc:718823]	0.919647143	0.000492801	0.002380484
ENSMMUG00000018415	Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]	1.536474577	7.92E-09	1.07E-07
ENSMMUG00000004019	izumo sperm-egg fusion 1 [Source:VGNC Symbol;Acc:VGNC:73670]	0.891067496	0.000262718	0.001370569
ENSMMUG00000028736	hydroxysteroid 17-beta dehydrogenase 14 [Source:NCBI gene;Acc:106994816]	1.039855581	3.87E-05	0.000244553
ENSMMUG00000009222	pleckstrin homology domain containing A4 [Source:VGNC Symbol;Acc:VGNC:76027]	1.593420731	0.000188248	0.001013751
ENSMMUG00000048854	TUB like protein 2 [Source:NCBI gene;Acc:718915]	1.017309695	0.004858677	0.017310271
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	2.428073506	5.41E-20	3.26E-18
ENSMMUG00000022116	PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]	1.450511847	0.001026831	0.004515959
ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]	2.039793319	4.49E-16	1.87E-14
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	2.686001518	3.75E-33	9.23E-31
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	2.42965509	9.96E-14	2.96E-12
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]	3.092263403	0.0002322	0.001225495
ENSMMUG00000003926	BCL2 like 12 [Source:NCBI gene;Acc:718981]	3.904182613	0.000349586	0.001747365
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	1.185597997	3.68E-07	3.67E-06
ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	1.423349784	1.50E-07	1.60E-06
ENSMMUG00000020175	mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]	1.333457784	0.000506244	0.002438702
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	2.202698376	5.02E-11	9.94E-10
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	2.826354855	1.70E-49	1.40E-46
ENSMMUG00000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]	2.047839348	3.08E-20	1.95E-18
ENSMMUG00000050456	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.73764087	0.008865783	0.028919486
ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.189099155	1.78E-23	1.58E-21
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	3.073979031	1.38E-07	1.49E-06
ENSMMUG00000010837	VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]	2.314443331	2.55E-05	0.000167601

ENSMMUG0000001427	myosin heavy chain 14 [Source:VGNC Symbol;Acc:VGNC:75006]	0.863565501	0.008793983	0.028752162
ENSMMUG00000023418	nuclear receptor subfamily 1 group H member 2 [Source:VGNC Symbol;Acc:VGNC:75504]	0.697176483	1.24E-07	1.36E-06
ENSMMUG00000021059	leucine rich repeat containing 4B [Source:VGNC Symbol;Acc:VGNC:74350]	0.427079424	0.012889089	0.039602037
ENSMMUG00000056558		0.389208789	0.007670661	0.025586509
ENSMMUG00000046099	chromosome 19 C19orf81 homolog [Source:NCBI gene;Acc:719661]	2.442776175	0.002324426	0.009156018
ENSMMUG00000059087		3.150800288	0.000239791	0.001261285
		-		
ENSMMUG00000009357	SH3 and multiple ankyrin repeat domains 1 [Source:VGNC Symbol;Acc:VGNC:77236]	0.794691134	0.009570171	0.030815731
ENSMMUG00000012841	kallikrein 3 [Source:NCBI gene;Acc:719444]	1.037223617	0.000462388	0.002252193
ENSMMUG00000065035	kallikrein-2 [Source:NCBI gene;Acc:719436]	-0.72723088	0.003407226	0.012699315
ENSMMUG00000060764		0.561110294	2.46E-06	2.04E-05
		-		
ENSMMUG00000013597	kallikrein related peptidase 5 [Source:VGNC Symbol;Acc:VGNC:74191]	0.540673026	0.010485163	0.033273013
		-		
ENSMMUG00000061396	kallikrein related peptidase 6 [Source:NCBI gene;Acc:719776]	0.603259674	0.002401219	0.009432016
		-		
ENSMMUG00000047370	IgLON family member 5 [Source:NCBI gene;Acc:719890]	0.675353567	0.012835785	0.039455547
		-		
ENSMMUG00000044652	sialic acid-binding Ig-like lectin 13 [Source:NCBI gene;Acc:719667]	0.677651585	0.000338074	0.001701042
ENSMMUG00000012764	zinc finger protein 175 [Source:VGNC Symbol;Acc:VGNC:78856]	-0.68615705	0.007090008	0.02389406
		-		
ENSMMUG00000012761	sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]	0.861686512	1.75E-06	1.50E-05
		-		
ENSMMUG00000013053	sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]	1.204212762	2.02E-07	2.11E-06
		-		
ENSMMUG00000053150	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.210071727	0.005361896	0.018764628
		-		
ENSMMUG00000051078		0.551711429	0.010630625	0.033658445
		-		
ENSMMUG00000002310	zinc finger protein 577 [Source:VGNC Symbol;Acc:VGNC:79733]	0.833892352	9.05E-08	1.02E-06
ENSMMUG00000023136	zinc finger protein 613 [Source:VGNC Symbol;Acc:VGNC:79548]	-0.65586134	1.17E-06	1.04E-05
		-		
ENSMMUG00000052090		0.632864822	5.90E-08	6.88E-07
		-		
ENSMMUG00000023137	zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]	1.169191502	4.07E-07	4.02E-06
		-		
ENSMMUG00000003712	zinc finger protein 615 [Source:VGNC Symbol;Acc:VGNC:79454]	0.959579535	0.000307837	0.001568035
		-		
ENSMMUG00000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	1.463514473	4.88E-10	8.20E-09
		-		
ENSMMUG00000001768	zinc finger protein 616 [Source:NCBI gene;Acc:719902]	0.771813567	9.19E-05	0.000528917
		-		
ENSMMUG00000020234	zinc finger protein 480 [Source:NCBI gene;Acc:106994837]	0.415139037	0.000854466	0.003847841
		-		
ENSMMUG00000033290	mml-mir-643 [Source:miRBase;Acc:MI0007886]	1.406940595	8.47E-07	7.79E-06
		-		
ENSMMUG00000047412	zinc finger protein 28 [Source:NCBI gene;Acc:100430953]	1.571329198	0.004984361	0.017669867
ENSMMUG00000058137	zinc finger protein 816 [Source:NCBI gene;Acc:720058]	0.893039687	0.003055864	0.011578754
		-		
ENSMMUG00000064519		1.325379175	0.000722521	0.00332194
ENSMMUG00000057187		0.761726834	7.05E-08	8.11E-07
		-		
ENSMMUG00000060222		0.517780189	0.000104959	0.000596609
ENSMMUG00000007972	protein kinase C gamma [Source:VGNC Symbol;Acc:VGNC:76413]	0.511970998	0.012604896	0.038830945
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	1.586469536	1.10E-08	1.47E-07

ENSMUG0000051966	-	1.267496434	3.95E-07	3.91E-06
ENSMUG0000042225	-	0.709798225	0.000877649	0.003938326
ENSMUG0000042267	-	2.108111873	0.00303021	0.011500035
ENSMUG0000061536	-	1.787967985	1.31E-06	1.15E-05

SD 35 vs. Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]	4.43333743	1.43E-13	3.64E-11
ENSMMUG00000057389	LY6/PLAUR domain containing 8 [Source:NCBI gene;Acc:710465]	1.271092081	1.57E-05	0.000212857
ENSMMUG00000017368	olfactory receptor 2G6 [Source:NCBI gene;Acc:694380]	1.425326456	9.62E-07	2.06E-05
ENSMMUG00000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	1.861727464	7.64E-09	3.67E-07
ENSMMUG00000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	0.920205495	9.39E-05	0.000947017
ENSMMUG00000004566	zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]	4.742714616	0.000553951	0.004075047
ENSMMUG00000000021	catsper channel auxiliary subunit epsilon [Source:VGNC Symbol;Acc:VGNC:70657]	3.301550141	0.006076311	0.027826936
ENSMMUG00000004265	phospholipase D family member 5 [Source:VGNC Symbol;Acc:VGNC:76120]	1.794470578	0.011027113	0.044347133
ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	0.837628433	0.000505199	0.003761083
ENSMMUG00000064824	gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]	1.889273353	0.000227927	0.001960111
ENSMMUG00000061845		1.430148638	0.003367318	0.017462258
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	0.934050468	0.000164632	0.001490054
ENSMMUG00000015132	galectin 8 [Source:VGNC Symbol;Acc:VGNC:74258]	2.075691248	6.38E-05	0.000683483
ENSMMUG00000046785		1.462248774	0.01032193	0.042309179
ENSMMUG00000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	3.554698745	1.43E-08	6.21E-07
ENSMMUG00000012068	signal induced proliferation associated 1 like 2 [Source:NCBI gene;Acc:100425123]	2.169035295	2.03E-05	0.0002648
ENSMMUG00000005243	exocyst complex component 8 [Source:VGNC Symbol;Acc:VGNC:72330]	1.273569789	0.008239255	0.035389615
ENSMMUG00000005801	glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]	1.499353419	0.000473661	0.003542517
ENSMMUG00000009508	TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]	2.282969736	0.000424382	0.003256352
ENSMMUG00000022094	ATP binding cassette subfamily B member 10 [Source:NCBI gene;Acc:574117]	1.778834143	4.43E-07	1.08E-05
ENSMMUG00000061675	5S ribosomal RNA [Source:RFAM;Acc:RF00001]	4.950822723	0.006241112	0.028401645
ENSMMUG00000050099	5S ribosomal RNA [Source:RFAM;Acc:RF00001]	3.797714807	0.000899721	0.006053686
ENSMMUG00000017789	pogo transposable element derived with KRAB domain [Source:VGNC Symbol;Acc:VGNC:76066]	1.954852142	1.33E-06	2.70E-05
ENSMMUG00000017790	transcriptional adaptor 1 [Source:VGNC Symbol;Acc:VGNC:78246]	2.081511822	2.14E-05	0.000276921
ENSMMUG00000023462	immunoglobulin like domain containing receptor 2 [Source:VGNC Symbol;Acc:VGNC:73619]	2.551596868	0.001333637	0.00837532
ENSMMUG00000051788	dual specificity phosphatase 27, atypical [Source:NCBI gene;Acc:697299]	2.019677977	0.01289322	0.049907507
ENSMMUG00000009184	myelin protein zero like 1 [Source:NCBI gene;Acc:698437]	2.366280834	3.36E-16	1.68E-13
ENSMMUG00000060218	chemokine (C motif) ligand 1 [Source:NCBI gene;Acc:574367]	4.949973435	3.43E-06	5.98E-05
ENSMMUG00000056707		1.869906349	0.011174482	0.044842737
ENSMMUG00000059777		1.013759285	0.000310333	0.002505395
ENSMMUG00000021078	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70176]	1.477609543	0.001568069	0.009597319
ENSMMUG00000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]	0.740336065	0.001431194	0.00887654

ENSMMUG00000013039	solute carrier family 19 member 2 [Source:VGNC Symbol;Acc:VGNC:81571]	-	0.683138609	5.17E-05	0.000574521
ENSMMUG00000042510	coagulation factor V [Source:NCBI gene;Acc:704695]	-	0.574455845	0.000847929	0.005740844
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]	-	1.539565168	1.22E-05	0.000172744
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]	-	1.545370818	1.17E-07	3.44E-06
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	-	1.245527055	5.24E-05	0.000579964
ENSMMUG00000059773	methyltransferase like 11B [Source:NCBI gene;Acc:705503]	-	1.061225056	0.0024902	0.013700315
ENSMMUG00000063298		-	-1.15081	0.00432618	0.021224558
ENSMMUG00000054261		-	2.009116974	0.000451598	0.003422366
ENSMMUG00000022798	aspartyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:71708]	-	0.79784654	0.002066633	0.011914079
ENSMMUG00000056971	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.696441203	1.14E-06	2.37E-05
ENSMMUG00000022801	zinc finger and BTB domain containing 37 [Source:VGNC Symbol;Acc:VGNC:79702]	-	1.449049087	0.006637926	0.029811074
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]	-	1.074692828	2.70E-05	0.000336586
ENSMMUG00000000546	KIAA0040 ortholog [Source:NCBI gene;Acc:100423509]	-	-1.24496728	0.000632961	0.004549137
ENSMMUG00000020320	protein transport protein Sec16B [Source:NCBI gene;Acc:709635]	-	0.787020243	0.000913817	0.006116886
ENSMMUG00000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	-	1.585196858	1.57E-06	3.07E-05
ENSMMUG00000055256	family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]	-	0.899127628	0.003359613	0.017443167
ENSMMUG00000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	-	0.927337477	0.000133689	0.001269163
ENSMMUG00000054568		-	1.073422001	0.001718972	0.010288517
ENSMMUG00000061785		-	1.296271485	2.65E-08	1.03E-06
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	-	2.748949096	4.43E-06	7.33E-05
ENSMMUG00000049444		-	2.643226912	0.002581376	0.014100534
ENSMMUG00000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	-	1.178533	3.22E-08	1.20E-06
ENSMMUG00000005634	ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]	-	0.915129946	0.004010174	0.020052414
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	-	2.849082081	1.12E-09	7.74E-08
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	-	2.137839582	0.000394189	0.003064452
ENSMMUG00000013879	tRNA methyltransferase 1 like [Source:VGNC Symbol;Acc:VGNC:79048]	-	1.635278074	0.001122074	0.007260547
ENSMMUG00000009076	proteoglycan 4 [Source:NCBI gene;Acc:716849]	-	3.731265204	4.14E-07	1.02E-05
ENSMMUG00000016857	prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]	-	1.319741373	1.70E-07	4.80E-06
ENSMMUG00000062021		-	1.641775562	0.000298455	0.002436724
ENSMMUG00000022647	cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]	-	0.650301483	0.01236353	0.048448349
ENSMMUG00000056654	translationally-controlled tumor protein [Source:NCBI gene;Acc:711798]	-	2.221513342	0.00196761	0.011446075
ENSMMUG00000021082	potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]	-	1.233491091	2.04E-05	0.000265958
ENSMMUG00000045497	complement factor H [Source:NCBI gene;Acc:717346]	-	1.201724219	0.002426365	0.013411517
ENSMMUG00000000243	complement factor H related 2 [Source:NCBI gene;Acc:106994228]	-	1.658405408	0.001410957	0.008780338

ENSMMUG0000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	-2.56386762	1.19E-07	3.48E-06
ENSMMUG00000052462	maestro heat-like repeat-containing protein family member 7 [Source:NCBI gene;Acc:100427155]	0.684340062	0.001260825	0.007979705
ENSMMUG00000017414	calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]	-1.35271968	8.92E-06	0.000131311
ENSMMUG00000064915	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.776079633	0.001804437	0.010691801
ENSMMUG00000050920	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.568508296	0.001646295	0.009958934
ENSMMUG00000021116	ATPase plasma membrane Ca ²⁺ transporting 4 [Source:VGNC Symbol;Acc:VGNC:70183]	1.734752908	5.51E-07	1.30E-05
ENSMMUG00000055783		4.480366643	9.98E-07	2.11E-05
ENSMMUG00000008460	SRY-box transcription factor 13 [Source:VGNC Symbol;Acc:VGNC:77839]	3.206833175	0.010575861	0.042951939
ENSMMUG00000063658	leucine rich repeat neuronal 2 [Source:NCBI gene;Acc:100429709]	1.478127334	0.000304829	0.002473242
ENSMMUG00000040888	complement C3b/C4b receptor 1 like [Source:HGNC Symbol;Acc:HGNC:2335]	0.992001629	0.002959872	0.015783557
ENSMMUG00000064202		1.086002971	0.007551708	0.033121069
ENSMMUG00000016099	hedgehog acyltransferase [Source:NCBI gene;Acc:712333]	1.737376026	0.002346627	0.013053991
ENSMMUG00000015634	centromere protein F [Source:VGNC Symbol;Acc:VGNC:71009]	1.768445402	0.005698311	0.02644976
ENSMMUG00000058133		2.101310373	0.000438373	0.00334006
ENSMMUG00000017396	3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]	1.397232846	0.000371628	0.002918714
ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	1.078398524	3.91E-07	9.75E-06
ENSMMUG00000007784	RAB3 GTPase activating non-catalytic protein subunit 2 [Source:VGNC Symbol;Acc:VGNC:76499]	0.595822801	0.006782683	0.030335482
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	0.833168926	0.002519921	0.013822899
ENSMMUG00000001869	synaptosome associated protein 47 [Source:VGNC Symbol;Acc:VGNC:77800]	1.27719192	0.010576268	0.042951939
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	0.715126508	0.006020393	0.027619483
ENSMMUG00000019513	U2AF homology motif kinase 1 [Source:VGNC Symbol;Acc:VGNC:79198]	3.248617473	1.48E-05	0.0002025
ENSMMUG00000042262	nitric oxide synthase 1 adaptor protein [Source:NCBI gene;Acc:720378]	1.274873659	0.000798167	0.005472305
ENSMMUG00000004042	Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]	1.578450628	0.011781261	0.046758341
ENSMMUG00000054686		2.567510144	1.70E-17	1.10E-14
ENSMMUG00000008251	cilia and flagella associated protein 126 [Source:VGNC Symbol;Acc:VGNC:71150]	2.535586944	0.004654362	0.022545488
ENSMMUG00000004512	Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]	1.31434115	0.001364216	0.008530287
ENSMMUG00000004520	NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]	1.230060276	6.47E-06	0.000100248
ENSMMUG00000050419	ADAM metalloproteinase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]	1.366710899	6.66E-09	3.27E-07
ENSMMUG00000060555		1.290268485	3.72E-06	6.38E-05
ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]	1.260784032	0.002165111	0.012312825

ENSMMUG00000022631	ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]	-1.47629625	0.002033737	0.011758157
ENSMMUG00000011335	Fc receptor like 6 [Source:VGNC Symbol;Acc:VGNC:72602]	0.839069336	0.003102865	0.016411495
ENSMMUG00000000730	spectrin alpha, erythrocytic 1 [Source:VGNC Symbol;Acc:VGNC:77868]	1.121942309	0.000723879	0.005079495
ENSMMUG000000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	0.991530078	0.000455751	0.00344422
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.112666735	1.25E-05	0.000175696
ENSMMUG00000019830	Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]	0.949290048	0.007097457	0.031494211
ENSMMUG00000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	0.853108904	0.001930417	0.011284049
ENSMMUG00000042886	ETS variant transcription factor 3 [Source:NCBI gene;Acc:719741]	1.046121444	0.001847693	0.010892924
ENSMMUG00000064007	leucine rich repeat containing 71 [Source:NCBI gene;Acc:718714]	0.578328641	0.00728499	0.032161773
ENSMMUG00000055304	insulin receptor related receptor [Source:NCBI gene;Acc:718670]	1.174640515	0.011434571	0.045647033
ENSMMUG00000000037	interferon stimulated exonuclease gene 20 like 2 [Source:NCBI gene;Acc:718621]	2.114654527	0.000530711	0.003928528
ENSMMUG00000027037	chromosome 1 C1orf61 homolog [Source:NCBI gene;Acc:106992893]	2.063343507	4.58E-05	0.000519278
ENSMMUG00000017966	lamin A/C [Source:VGNC Symbol;Acc:VGNC:74427]	1.696824401	3.87E-06	6.56E-05
ENSMMUG00000016096	KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]	1.683348905	0.001828541	0.01081492
ENSMMUG00000004648	RUN and SH3 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77036]	0.674010655	0.001508853	0.009287335
ENSMMUG00000062397	metaxin-1 [Source:NCBI gene;Acc:717595]	1.343505729	8.38E-06	0.000124139
ENSMMUG00000023145	thrombospondin 3 [Source:VGNC Symbol;Acc:VGNC:78345]	1.240484846	0.003326445	0.017326289
ENSMMUG00000053423	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]	4.022579987	2.38E-08	9.53E-07
ENSMMUG00000008506	S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]	2.692325071	0.010199825	0.041963764
ENSMMUG00000003902	involucrin [Source:NCBI gene;Acc:713728]	1.577654029	9.24E-10	6.61E-08
ENSMMUG00000010978	sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]	0.792722523	0.00019397	0.001714787
ENSMMUG00000008917	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]	0.589661268	0.011766773	0.046715095
ENSMMUG00000051645	late cornified envelope 1C [Source:HGNC Symbol;Acc:HGNC:29464]	3.791381218	3.57E-08	1.29E-06
ENSMMUG00000061474	late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]	2.602612775	5.41E-10	4.32E-08
ENSMMUG00000063702	late cornified envelope protein 1C [Source:NCBI gene;Acc:713408]	2.62124742	0.01141682	0.045604163
ENSMMUG00000042618	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]	2.397378783	2.07E-08	8.48E-07
ENSMMUG00000017740	keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]	3.099214299	3.62E-10	3.07E-08
ENSMMUG00000055038	late cornified envelope protein 2D [Source:NCBI gene;Acc:100424118]	2.798343939	1.48E-08	6.41E-07
ENSMMUG00000054634		3.178888919	0.000659639	0.004700622
ENSMMUG00000051719		2.713058371	4.58E-05	0.00051945
ENSMMUG00000058472		2.466744157	4.96E-09	2.55E-07
ENSMMUG00000056940		2.816921597	0.000390666	0.003044338
ENSMMUG00000055266		3.031271358	2.69E-07	7.06E-06
ENSMMUG00000051816		2.612809201	2.74E-09	1.58E-07
ENSMMUG00000049843		3.911836333	0.000213553	0.001859082
ENSMMUG00000062996		2.695712663	7.49E-06	0.000113209

ENSMMUG0000001967	late cornified envelope 5A [Source:VGNC Symbol;Acc:VGNC:74061]	3.839915284	3.64E-05	0.000430568
ENSMMUG00000009040	cornulin [Source:VGNC Symbol;Acc:VGNC:71397]	2.440924407	1.22E-05	0.00017232
ENSMMUG00000056511		2.545918664	3.11E-09	1.73E-07
ENSMMUG00000059472	filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]	2.048348709	4.33E-13	9.91E-11
ENSMMUG00000010067	MINDY lysine 48 deubiquitinase 1 [Source:VGNC Symbol;Acc:VGNC:74828]	-	0.01230201	0.048250886
ENSMMUG00000021385	carbonic anhydrase 14 [Source:VGNC Symbol;Acc:VGNC:70489]	0.654267391	0.00400396	0.020030915
ENSMMUG00000052282		0.931641722	0.001835264	0.010839892
ENSMMUG00000007256	splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]	0.734011253	0.012239139	0.048091312
ENSMMUG00000007257	synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]	0.671029078	0.00973447	0.040436449
ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]	0.666323515	0.002678844	0.014535271
ENSMMUG00000062140		1.364494858	0.000156806	0.001435574
ENSMMUG00000024186	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	3.007757785	9.85E-06	0.000142145
ENSMMUG00000061239		-1.11927092	2.58E-05	0.000323581
ENSMMUG00000054590		1.175862802	0.000103745	0.001023751
ENSMMUG00000056076	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.678621927	0.000443712	0.003372831
ENSMMUG00000056325	NBPF member 20 [Source:NCBI gene;Acc:708768]	2.168782287	3.96E-06	6.66E-05
ENSMMUG00000055722		1.745420663	0.000265628	0.002210337
ENSMMUG00000044046		1.606406316	0.000167725	0.001513836
ENSMMUG00000062170		3.725130126	0.012416562	0.048584802
ENSMMUG00000041725	60S ribosomal protein L6-like [Source:NCBI gene;Acc:710287]	2.892840797	0.008201877	0.035287334
ENSMMUG00000009781	synaptotagmin 6 [Source:VGNC Symbol;Acc:VGNC:78162]	0.974413423	0.002358009	0.013095663
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	2.362431216	2.34E-10	2.11E-08
ENSMMUG00000019527	DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]	1.321001234	0.004040233	0.020171697
ENSMMUG00000006787	BCL2 like 15 [Source:VGNC Symbol;Acc:VGNC:70162]	2.467345547	0.012153241	0.04781157
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	1.377393994	7.83E-07	1.75E-05
ENSMMUG00000017819	putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]	1.275597123	3.78E-06	6.47E-05
ENSMMUG00000037458	endoplasmic reticulum resident protein 29 [Source:NCBI gene;Acc:720396]	1.971601484	0.004812336	0.02315547
ENSMMUG00000014489	DEAD-box helicase 20 [Source:NCBI gene;Acc:704731]	1.002688714	0.000149277	0.001381844
ENSMMUG00000021544	solute carrier family 6 member 17 [Source:VGNC Symbol;Acc:VGNC:77805]	2.781085918	6.08E-06	9.54E-05
ENSMMUG00000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	0.977774423	1.27E-05	0.000177989
ENSMMUG00000017266	UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]	1.573011556	9.38E-07	2.03E-05
ENSMMUG00000042232	NBPF member 6 [Source:NCBI gene;Acc:698524]	1.301057469	0.000488729	0.003644733
ENSMMUG00000031785		1.008235364	0.001850303	0.010899025

ENSMMUG0000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]	2.541558072	2.64E-05	0.000330031
ENSMMUG00000008197	netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]	2.06784088	0.001777539	0.010556304
ENSMMUG00000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	1.497177876	1.36E-09	8.95E-08
ENSMMUG00000060790		-	-	-
ENSMMUG00000022906	vascular cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:78761]	4.127266216	0.000821514	0.00559404
ENSMMUG00000055443	G protein-coupled receptor 88 [Source:NCBI gene;Acc:716520]	0.579525595	0.005549526	0.025897788
ENSMMUG00000019105	RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]	0.61916109	0.010430788	0.042540867
ENSMMUG00000007706	dihydrolipoamide branched chain transacylase E2 [Source:VGNC Symbol;Acc:VGNC:71744]	2.577312722	1.44E-05	0.000198126
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]	3.658151236	0.00027395	0.002266538
ENSMMUG00000038667		-	-	-
ENSMMUG00000008518	phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]	1.801025929	0.000286451	0.002352006
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]	1.968060536	0.002442246	0.013493565
ENSMMUG00000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]	1.391192133	2.87E-10	2.52E-08
ENSMMUG00000049297		0.846197531	0.00322264	0.016907486
ENSMMUG0000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]	2.079200153	2.04E-08	8.44E-07
ENSMMUG00000058244		0.905485216	1.50E-05	0.000204082
ENSMMUG00000045959		0.745252046	0.0034703	0.017882217
ENSMMUG00000015924	BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]	2.435202975	0.007553213	0.033121069
ENSMMUG00000015922	formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]	1.355138771	0.000280434	0.002311232
ENSMMUG00000016812	coiled-coil domain containing 18 [Source:VGNC Symbol;Acc:VGNC:70913]	0.758303979	0.00553201	0.025843864
ENSMMUG00000051332		0.637559523	0.000341599	0.002725663
ENSMMUG0000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]	1.068624282	0.00057556	0.004200745
ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]	1.690160594	0.010797844	0.043600359
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]	1.716381422	4.12E-10	3.48E-08
ENSMMUG00000051155	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	3.645352915	1.02E-09	7.27E-08
ENSMMUG00000006819	helicase for meiosis 1 [Source:NCBI gene;Acc:704516]	4.499358782	5.21E-39	6.77E-35
ENSMMUG00000049678		-	-	-
ENSMMUG00000060600		4.626327006	0.00035252	0.002802488
ENSMMUG00000017707	leucine rich repeat containing 8 VRAC subunit B [Source:VGNC Symbol;Acc:VGNC:81439]	1.327215001	3.43E-05	0.000411277
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	1.521428503	0.000273011	0.002260205
ENSMMUG00000020588	protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]	1.625140689	0.000271043	0.002246776
ENSMMUG00000065295		1.75047913	1.87E-06	3.58E-05
ENSMMUG00000000813	calcium-activated chloride channel regulator 1-like [Source:NCBI gene;Acc:715292]	1.921082378	8.03E-06	0.000120209
ENSMMUG00000006836	chloride channel accessory 1 [Source:NCBI gene;Acc:574295]	0.804354578	5.63E-06	9.03E-05
		2.107901534	4.20E-10	3.52E-08
		0.965989515	0.004221139	0.02081101
		2.320963019	8.11E-07	1.80E-05

ENSMMUG0000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]	2.783446208	0.000104249	0.001027945
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	1.686935583	9.63E-09	4.49E-07
ENSMMUG00000005720	BCL10 immune signaling adaptor [Source:VGNC Symbol;Acc:VGNC:70240]	0.612542767	0.000836508	0.005676943
ENSMMUG00000005361	mucolipin 3 [Source:VGNC Symbol;Acc:VGNC:74505]	1.347951122	5.93E-05	0.000639381
ENSMMUG00000063379		0.797740643	0.003272916	0.017102269
ENSMMUG00000010127	chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]	2.164183162	2.62E-06	4.80E-05
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	1.260345711	3.59E-07	9.11E-06
ENSMMUG00000059938		1.619160783	0.000461625	0.003480516
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	1.575269175	1.38E-06	2.78E-05
ENSMMUG00000016591	tubulin tyrosine ligase like 7 [Source:VGNC Symbol;Acc:VGNC:79591]	0.621561349	0.010366868	0.04238651
ENSMMUG000000057763		-1.56846433	0.000115076	0.001116928
ENSMMUG000000050832		2.880952959	0.010099712	0.041647701
ENSMMUG00000023345	adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]	2.138940509	2.53E-05	0.000318566
ENSMMUG000000054277		0.62152942	0.007158414	0.031697707
ENSMMUG00000020217	phosphatidylinositol glycan anchor biosynthesis class K [Source:VGNC Symbol;Acc:VGNC:75988]	0.644392227	0.002450556	0.013527984
ENSMMUG00000041837	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.823291142	0.002317974	0.012955553
ENSMMUG000000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	1.126757328	8.79E-08	2.70E-06
ENSMMUG000000054553		3.18524155	0.004269194	0.02099249
ENSMMUG000000053254	adenylate kinase 4 [Source:NCBI gene;Acc:698560]	1.390268769	0.000791319	0.00543969
ENSMMUG000000053072		1.565096276	0.000187945	0.001669678
ENSMMUG00000018566	Janus kinase 1 [Source:VGNC Symbol;Acc:VGNC:73810]	3.004053659	1.72E-09	1.10E-07
ENSMMUG00000018565	ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]	2.989064905	2.37E-05	0.000300922
ENSMMUG00000012538	ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]	0.814826357	0.008611825	0.036711044
ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]	0.824319854	8.79E-05	0.000899233
ENSMMUG00000010351	KN motif and ankyrin repeat domains 4 [Source:VGNC Symbol;Acc:VGNC:73916]	0.821744136	0.000404695	0.003131153
ENSMMUG00000049952		0.832156034	0.000471219	0.003530345
ENSMMUG000000055834		1.887625132	0.000900588	0.006056387
ENSMMUG00000022762	OMA1 zinc metallopeptidase [Source:VGNC Symbol;Acc:VGNC:75485]	1.019219957	0.001951919	0.011384151
ENSMMUG000000059612		0.268430888	0.006812519	0.030447981
ENSMMUG000000032084	prolyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:75707]	0.597138791	0.005299788	0.024983341
ENSMMUG00000006754	tetratricopeptide repeat domain 4 [Source:VGNC Symbol;Acc:VGNC:78668]	0.940972824	7.70E-05	0.00080399
ENSMMUG00000009114	maestro heat like repeat family member 7 [Source:NCBI gene;Acc:715310]	1.672890421	5.98E-09	3.02E-07
ENSMMUG00000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	1.715546212	2.19E-06	4.09E-05
ENSMMUG00000005986	Kruppel like factor 17 [Source:NCBI gene;Acc:702810]	1.448688132	0.007125064	0.031595153

ENSMMUG00000015555	ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]	1.84164437	0.000435467	0.003323756
ENSMMUG00000053498		2.352209833	1.06E-08	4.78E-07
ENSMMUG00000012477	protein tyrosine phosphatase receptor type F [Source:VGNC Symbol;Acc:VGNC:76615]	-	-	-
ENSMMUG00000057076	claudin 19 [Source:NCBI gene;Acc:697807]	4.150949072	0.007450388	0.032791793
ENSMMUG00000014138	forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]	2.150062919	0.000134335	0.001273445
ENSMMUG00000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	1.41851487	6.06E-08	1.99E-06
ENSMMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	0.646670997	0.007636318	0.033393226
ENSMMUG00000018664	collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]	1.681619186	3.34E-12	6.21E-10
ENSMMUG00000005992	zinc metalloproteinase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]	1.676532912	0.000174608	0.001565094
ENSMMUG00000032180	RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]	1.407265825	0.008557276	0.036538388
ENSMMUG00000009562	microtubule actin crosslinking factor 1 [Source:NCBI gene;Acc:718651]	2.294471996	2.71E-05	0.000336753
ENSMMUG00000008419	G protein nucleolar 2 [Source:VGNC Symbol;Acc:VGNC:73037]	1.544848494	0.000845609	0.005731106
ENSMMUG00000059855	Smad nuclear interacting protein 1 [Source:NCBI gene;Acc:713733]	1.826483371	5.37E-07	1.27E-05
ENSMMUG00000010328	MYST/Esa1 associated factor 6 [Source:VGNC Symbol;Acc:VGNC:74580]	1.453783233	0.003348854	0.01740021
ENSMMUG00000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	2.452725159	1.54E-17	1.05E-14
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	1.819978632	1.07E-09	7.52E-08
ENSMMUG00000019815	transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]	1.987793997	5.58E-05	0.000610287
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	0.755876364	0.000471027	0.003530345
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	0.86244367	0.000254165	0.002132689
ENSMMUG00000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	1.048746839	2.40E-08	9.53E-07
ENSMMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]	0.90686732	0.000131271	0.001248945
ENSMMUG00000044265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.928453943	9.19E-05	0.000932724
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]	5.195487056	5.22E-06	8.47E-05
ENSMMUG00000053323		3.978733537	0.002027861	0.011737587
ENSMMUG00000009951	MARCKS like 1 [Source:VGNC Symbol;Acc:VGNC:74723]	3.501886092	0.008633453	0.036779133
ENSMMUG00000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	2.188843146	1.39E-10	1.40E-08
ENSMMUG00000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	-1.69198772	7.56E-08	2.41E-06
ENSMMUG00000015650	transmembrane protein 39B [Source:VGNC Symbol;Acc:VGNC:79507]	0.871639363	0.000651844	0.00465562
ENSMMUG00000041790	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.474883692	0.000275453	0.002277526
ENSMMUG00000023401	adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]	-0.97802223	2.76E-05	0.000343424
ENSMMUG00000023398	collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]	0.786984546	0.001574695	0.009628813

ENSMMUG00000023397	penta-EF-hand domain containing 1 [Source:NCBI gene;Acc:706038]	-	0.541613677	0.010689901	0.043245054
ENSMMUG00000013188	serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]	-	0.701123498	0.003672097	0.018721791
ENSMMUG00000049574	antizyme inhibitor 2-like [Source:NCBI gene;Acc:705256]	-	0.857777667	5.21E-05	0.000578009
ENSMMUG00000063979		-	0.789632786	1.81E-06	3.48E-05
ENSMMUG00000057452		-	1.384992188	2.08E-05	0.000270201
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	-	1.512517611	0.002058261	0.011881823
ENSMMUG00000007110	serine and arginine rich splicing factor 4 [Source:NCBI gene;Acc:717401]	-	4.106338512	0.000126445	0.001210109
ENSMMUG00000016893	solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]	-	1.349052842	3.05E-08	1.15E-06
ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	-	0.780641499	0.000136178	0.001287158
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	-	1.783811646	7.64E-06	0.000115315
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	-	1.264218983	0.002219115	0.012543162
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	-	1.49451369	7.76E-05	0.000808257
ENSMMUG00000057953		-	1.514697927	6.80E-05	0.000721075
ENSMMUG00000057675	non-compact myelin associated protein [Source:NCBI gene;Acc:712192]	-	1.459832463	0.002118305	0.012126175
ENSMMUG00000053036		-	-1.00675714	0.007899271	0.034303147
ENSMMUG00000049609		-	2.773839951	1.49E-05	0.000203164
ENSMMUG00000022927	RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]	-	1.166813895	2.94E-06	5.25E-05
ENSMMUG00000050770		-	0.954416509	0.000441031	0.003356375
ENSMMUG00000059931		-	0.698402973	0.004940827	0.023627373
ENSMMUG00000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	-	1.078498564	0.000262139	0.002182703
ENSMMUG00000041482	lactamase beta like 1 [Source:NCBI gene;Acc:718590]	-	0.953866083	0.004944354	0.023627783
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	-	2.008322993	3.02E-09	1.69E-07
ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	-	1.834152143	2.41E-09	1.44E-07
ENSMMUG00000002492	transmembrane and coiled-coil domains 4 [Source:VGNC Symbol;Acc:VGNC:79664]	-	4.105634633	1.71E-05	0.000228021
ENSMMUG00000050018		-	1.903556752	1.08E-06	2.26E-05
ENSMMUG00000004754	intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]	-	1.104272826	0.000132538	0.001260079
ENSMMUG00000032238	peptidyl arginine deiminase 4 [Source:NCBI gene;Acc:700806]	-	2.16377411	0.001968027	0.011446075
ENSMMUG00000051619	peptidyl arginine deiminase 3 [Source:NCBI gene;Acc:700560]	-	1.287867967	3.81E-06	6.51E-05
ENSMMUG00000007315	ciliary rootlet coiled-coil, rootletin [Source:NCBI gene;Acc:710793]	-	0.865588609	9.89E-05	0.000988693
ENSMMUG00000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	-	1.494456524	1.22E-13	3.23E-11
ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	-	1.441039385	7.51E-09	3.62E-07
ENSMMUG00000018235	chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]	-	1.606208316	2.08E-06	3.91E-05
ENSMMUG00000001910	heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]	-	1.701264433	0.000405876	0.003135329

ENSMMUG0000001911	steroid receptor associated and regulated protein [Source:VGNC Symbol;Acc:VGNC:78008]	1.455433132	0.000188924	0.001674942
ENSMMUG0000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.332725594	1.41E-07	4.07E-06
ENSMMUG0000002802	agmatinase [Source:NCBI gene;Acc:713190]	1.257068039	0.007043656	0.031298185
ENSMMUG00000032244	DnaJ heat shock protein family (Hsp40) member C16 [Source:NCBI gene;Acc:700894]	1.486957214	0.003644432	0.018639198
ENSMMUG00000018163	caspace 9 [Source:NCBI gene;Acc:694544]	2.526489814	0.010634238	0.04310031
ENSMMUG00000031821	chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]	-2.18357738	0.000821213	0.00559404
ENSMMUG00000060541		2.944862212	0.000691378	0.004884338
ENSMMUG0000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]	2.915578903	1.79E-07	5.03E-06
ENSMMUG00000055233	PRAME family member 17-like [Source:NCBI gene;Acc:100427847]	0.972554622	2.45E-05	0.000309736
ENSMMUG00000054309	PRAME family member 5 [Source:NCBI gene;Acc:722781]	1.885393747	0.001317951	0.008284812
ENSMMUG00000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	1.089571293	3.00E-09	1.69E-07
ENSMMUG00000064242		0.921638993	0.003232699	0.016939761
ENSMMUG00000063313	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	1.010596641	0.007352512	0.032426849
ENSMMUG00000021447	TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]	5.083476179	0.000127008	0.001212828
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	0.844196253	0.00088289	0.005955847
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	0.472332619	0.009771275	0.040550478
ENSMMUG00000002261	F-box protein 2 [Source:VGNC Symbol;Acc:VGNC:72486]	2.726422798	0.002198334	0.012447334
ENSMMUG00000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	0.732250818	0.000631322	0.004546498
ENSMMUG00000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	1.225168199	5.07E-10	4.09E-08
ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	1.324618851	4.75E-06	7.81E-05
ENSMMUG00000053062	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.083678031	0.008794179	0.037292826
ENSMMUG00000006187	angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]	1.202637895	6.69E-05	0.000713438
ENSMMUG00000032281	zinc finger and BTB domain containing 48 [Source:VGNC Symbol;Acc:VGNC:79959]	0.826017532	0.005111554	0.024316339
ENSMMUG00000023677	TNF receptor superfamily member 25 [Source:VGNC Symbol;Acc:VGNC:78584]	3.550798385	0.004139298	0.02053231
ENSMMUG00000023676	espin [Source:NCBI gene;Acc:722532]	0.912220381	0.005124228	0.024349914
ENSMMUG00000055126		1.477319379	0.006174703	0.028158551
ENSMMUG00000054719		2.190122041	9.78E-09	4.54E-07
ENSMMUG00000050239		1.238441171	0.000162457	0.001473691
ENSMMUG00000018911	protein kinase C zeta [Source:VGNC Symbol;Acc:VGNC:82212]	2.003789264	0.002335201	0.01300155
ENSMMUG00000005578	solute carrier family 35 member E2 [Source:VGNC Symbol;Acc:VGNC:77590]	0.995337689	0.007598414	0.033252009

ENSMMUG00000012961	mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]	-0.71492589	0.006116816	0.027953377
ENSMMUG00000048805		1.442356612	3.42E-06	5.98E-05
ENSMMUG00000040063	fibronectin type III domain containing 10 [Source:NCBI gene;Acc:106996973]	1.511366323	0.004617472	0.022408522
ENSMMUG00000060167		1.105594111	0.000216764	0.001885773
ENSMMUG00000013862	ArfGAP with coiled-coil, ankyrin repeat and PH domains 3 [Source:VGNC Symbol;Acc:VGNC:69434]	0.721127154	0.007160377	0.031697707
ENSMMUG00000006596	CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]	1.341909107	0.002408804	0.013337124
ENSMMUG000000049551		1.306936737	0.00222606	0.012566029
ENSMMUG000000055585		-1.27023554	0.000375864	0.002948423
ENSMMUG000000051896		3.438570316	0.006976888	0.03108647
ENSMMUG00000060958	leucine rich repeat containing 3B [Source:NCBI gene;Acc:701323]	2.287857071	0.002061206	0.011893545
ENSMMUG000000051975		1.090873861	0.001578722	0.009639837
ENSMMUG00000019009	SATB homeobox 1 [Source:VGNC Symbol;Acc:VGNC:84086]	0.745234537	0.008219518	0.035328171
ENSMMUG00000020377	collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]	1.085691967	0.003416961	0.017663355
ENSMMUG00000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	3.806647573	5.83E-14	1.69E-11
ENSMMUG00000000220	mitochondrial ribosomal protein L3 [Source:VGNC Symbol;Acc:VGNC:74725]	1.368346551	0.006933795	0.030915644
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	1.877257048	7.16E-10	5.48E-08
ENSMMUG000000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	2.327051542	4.17E-07	1.03E-05
ENSMMUG00000019854	transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]	1.363012099	0.000148868	0.001380025
ENSMMUG00000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	-1.75237996	3.86E-09	2.08E-07
ENSMMUG000000057769		2.451235578	0.002034819	0.011758157
ENSMMUG00000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]	2.126842012	2.02E-05	0.000263849
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	-2.32108091	4.63E-22	8.60E-19
ENSMMUG000000053660	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.213120794	5.76E-06	9.16E-05
ENSMMUG000000008916	transferrin [Source:VGNC Symbol;Acc:VGNC:82716]	-2.19021042	2.06E-14	7.07E-12
ENSMMUG000000008918	SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]	1.850996459	1.56E-07	4.46E-06
ENSMMUG000000008919	RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]	1.590536012	1.18E-05	0.000168398
ENSMMUG00000012605	solute carrier organic anion transporter family member 2A1 [Source:VGNC Symbol;Acc:VGNC:77600]	1.088132157	1.36E-08	5.94E-07
ENSMMUG000000003263	stromal antigen 1 [Source:VGNC Symbol;Acc:VGNC:77901]	0.50710821	0.008126474	0.035063566
ENSMMUG000000007760	centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]	0.681697355	0.000539602	0.003983013
ENSMMUG000000053063	forkhead box L2 [Source:NCBI gene;Acc:717906]	0.818874638	0.001168846	0.007522026
ENSMMUG000000056024		1.930164906	6.72E-09	3.29E-07
ENSMMUG000000063351	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.593012906	0.008805172	0.037327273

ENSMMUG0000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	1.861334096	1.07E-09	7.52E-08
ENSMMUG00000052474		1.845523228	5.90E-06	9.35E-05
ENSMMUG0000007927	ATR serine/threonine kinase [Source:VGNC Symbol;Acc:VGNC:70193]	2.089707758	0.001486502	0.009162771
ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	2.332870401	0.000682496	0.004832085
ENSMMUG00000002775	U2 snRNP associated SURP domain containing [Source:VGNC Symbol;Acc:VGNC:79889]	0.891344675	0.000977856	0.006474706
ENSMMUG00000009694	solute carrier family 9 member A9 [Source:VGNC Symbol;Acc:VGNC:77747]	1.563066057	0.012791031	0.049644925
ENSMMUG00000039078	phospholipid scramblase family member 5 [Source:VGNC Symbol;Acc:VGNC:84061]	2.150430665	0.000191514	0.001695597
ENSMMUG00000047621	transmembrane 4 L six family member 18 [Source:VGNC Symbol;Acc:VGNC:82713]	0.821640623	0.000147151	0.001368012
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]	1.496954405	6.98E-07	1.60E-05
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.231516629	5.30E-07	1.26E-05
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]	0.793794276	0.011697523	0.046482732
ENSMMUG00000057501		1.967579153	5.50E-06	8.86E-05
ENSMMUG00000061194		3.145429099	3.89E-08	1.38E-06
ENSMMUG00000061684		1.178896025	0.009168394	0.038627838
ENSMMUG00000053540		1.851910368	0.012766752	0.049580285
ENSMMUG00000009036	Rho guanine nucleotide exchange factor 26 [Source:VGNC Symbol;Acc:VGNC:69897]	0.591113931	0.011147479	0.044748184
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]	1.01170633	3.27E-08	1.21E-06
ENSMMUG00000056116		1.323530317	9.61E-07	2.06E-05
ENSMMUG00000023045	zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]	1.728121266	0.003551056	0.018211764
ENSMMUG00000051641		1.322113546	6.79E-05	0.000720465
ENSMMUG00000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]	-1.88845721	8.13E-11	8.81E-09
ENSMMUG00000056664	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.306876991	0.001245477	0.007909216
ENSMMUG00000022880	eukaryotic translation initiation factor 5A2 [Source:VGNC Symbol;Acc:VGNC:72198]	0.908007376	0.003038095	0.016127945
ENSMMUG00000023289	phospholipase D1 [Source:VGNC Symbol;Acc:VGNC:76171]	3.719410978	0.00384751	0.019410375
ENSMMUG00000040869	spermatogenesis associated 16 [Source:VGNC Symbol;Acc:VGNC:84073]	1.023700124	0.004032537	0.020141004
ENSMMUG00000003594	ubiquitin specific peptidase 13 [Source:VGNC Symbol;Acc:VGNC:78735]	0.636778723	0.004189673	0.02071897
ENSMMUG00000064088	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	0.750904256	0.006569002	0.029567217
ENSMMUG00000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]	1.941934406	1.81E-10	1.76E-08
ENSMMUG00000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]	0.704124602	0.001438418	0.008917097
ENSMMUG00000006553	dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]	0.991364636	0.006470793	0.029221284
ENSMMUG00000000800	proteasome 26S subunit, non-ATPase 2 [Source:VGNC Symbol;Acc:VGNC:84144]	0.414931848	0.010251898	0.042128338
ENSMMUG00000007503	family with sequence similarity 131 member A [Source:VGNC Symbol;Acc:VGNC:72385]	0.472964901	0.007862813	0.034179061

ENSMMUG0000007525	thrombopoietin [Source:VGNC Symbol;Acc:VGNC:78348]	1.569090287	2.47E-07	6.60E-06
ENSMMUG0000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	1.458430501	0.007990134	0.034663005
ENSMMUG0000002953	MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]	0.925828002	0.010948562	0.044099412
ENSMMUG00000013018	SUMO specific peptidase 2 [Source:VGNC Symbol;Acc:VGNC:77292]	-	0.547046754	0.000669311
ENSMMUG00000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	0.993789762	1.39E-06	2.79E-05
ENSMMUG00000052418	histidine rich glycoprotein [Source:VGNC Symbol;Acc:VGNC:73521]	0.868642216	1.43E-05	0.000197129
ENSMMUG00000018910		1.368723373	0.00516756	0.024491765
ENSMMUG00000054175		0.404632399	0.006442066	0.029140288
ENSMMUG00000004847	xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]	0.797542707	3.82E-06	6.52E-05
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	2.696691674	6.13E-11	7.00E-09
ENSMMUG00000020150	xin actin binding repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:78952]	-	0.554313172	0.008056435
ENSMMUG00000051408	myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]	1.324749096	8.66E-05	0.000888279
ENSMMUG00000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	1.636731547	9.99E-07	2.11E-05
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	2.144858119	1.15E-07	3.39E-06
ENSMMUG00000047891	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.047187348	0.010820956	0.043680123
ENSMMUG00000013330	ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]	2.133975643	3.67E-08	1.32E-06
ENSMMUG00000009437	zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]	2.046035243	0.003752255	0.019031349
ENSMMUG00000050991		-	1.285529455	1.04E-06
ENSMMUG00000052672		5.860535645	3.14E-08	1.18E-06
ENSMMUG00000021242	natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]	-	5.316477645	1.38E-05
ENSMMUG00000021243	zinc finger and BTB domain containing 47 [Source:VGNC Symbol;Acc:VGNC:79645]	-	3.609229299	0.003550537
ENSMMUG00000021244	kelch like family member 40 [Source:VGNC Symbol;Acc:VGNC:74165]	-	3.389342211	0.001582282
ENSMMUG00000021246	hedgehog acyltransferase like [Source:NCBI gene;Acc:717333]	-	3.675324857	3.17E-05
ENSMMUG00000056798		2.565872837	3.90E-06	6.58E-05
ENSMMUG00000054286		1.50958841	0.000321723	0.002582315
ENSMMUG0000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]	0.469468905	0.000665128	0.004727136
ENSMMUG00000019130	exosome component 7 [Source:VGNC Symbol;Acc:VGNC:72383]	-	2.429533247	0.00054416
ENSMMUG00000004576	C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]	2.974452632	3.40E-09	1.87E-07
ENSMMUG00000062394	C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]	1.027547869	9.13E-12	1.40E-09
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	1.131916195	0.00418157	0.020702511
ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	1.625207263	7.34E-15	2.73E-12
ENSMMUG00000064458		-1.27604169	0.000712954	0.005012262
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	0.761007433	0.000590452	0.004280613
ENSMMUG00000010062	shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]	0.530654209	0.002980495	0.015853727
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]	0.659196361	0.000681888	0.004830411

ENSMMUG00000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	2.188145558	3.65E-09	2.00E-07
ENSMMUG00000014699		1.35891317	2.07E-09	1.27E-07
ENSMMUG00000014707	cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]	1.629873041	0.00395	0.019812457
ENSMMUG00000064174		1.818011403	0.002760804	0.014923945
ENSMMUG00000014720	NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]	2.175659058	2.39E-08	9.53E-07
ENSMMUG00000006130	prolyl 4-hydroxylase, transmembrane [Source:VGNC Symbol;Acc:VGNC:75693]	2.247670603	0.001008382	0.006637152
ENSMMUG00000005660	glutamine rich 1 [Source:VGNC Symbol;Acc:VGNC:76530]	2.640576097	0.003214216	0.016870093
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	0.743724937	0.000300143	0.002444766
ENSMMUG00000020979	inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]	0.757616643	0.001928335	0.011276944
ENSMMUG00000020980	ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]	0.644928764	0.012597302	0.049073031
ENSMMUG00000016476	TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]	0.675895805	3.50E-05	0.000417558
ENSMMUG00000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	1.112809609	0.000117173	0.001131365
ENSMMUG00000017351	stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]	0.651555747	0.003769946	0.019100862
ENSMMUG000000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	1.070354772	0.000114483	0.001112028
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	1.643761403	6.35E-07	1.47E-05
ENSMMUG00000017370	signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]	1.811226739	5.71E-06	9.11E-05
ENSMMUG00000007230	protein kinase C delta [Source:VGNC Symbol;Acc:VGNC:76411]	0.746750099	0.003799482	0.019213087
ENSMMUG00000039085	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1 [Source:NCBI gene;Acc:100425753]	3.222301909	0.001229877	0.007833386
ENSMMUG00000021008	ankyrin repeat and SOCS box containing 14 [Source:VGNC Symbol;Acc:VGNC:84237]	4.089212059	0.000173402	0.001558585
ENSMMUG00000004052	phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]	1.380997786	0.004637178	0.022485818
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	2.279587958	7.95E-06	0.000119189
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	1.94741158	2.07E-08	8.48E-07
ENSMMUG000000057539		2.689569427	1.32E-05	0.000184461
ENSMMUG000000057486		3.039182718	1.21E-10	1.25E-08
ENSMMUG000000057543	MyoD family inhibitor domain containing 2 [Source:HGNC Symbol;Acc:HGNC:53442]	2.034947981	2.19E-07	6.00E-06
ENSMMUG00000018281	interleukin 17 receptor E [Source:VGNC Symbol;Acc:VGNC:73623]	0.693643365	5.73E-05	0.000624121
ENSMMUG00000018282	interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]	0.673481339	0.000977106	0.006474706
ENSMMUG00000018285	cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]	0.749747412	0.003768705	0.019100862
ENSMMUG00000018289	proline rich transmembrane protein 3 [Source:VGNC Symbol;Acc:VGNC:76324]	0.483034404	0.011883596	0.047052905
ENSMMUG00000019933	TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]	1.235744177	0.005907206	0.027186527
ENSMMUG00000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]	2.049797193	9.06E-10	6.55E-08
ENSMMUG00000023125	XPC complex subunit, DNA damage recognition and repair factor [Source:VGNC Symbol;Acc:VGNC:78809]	0.913759376	0.006727363	0.030160662
ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]	1.083378135	3.26E-06	5.76E-05

ENSMMUG00000044822	coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]	1.428139548	1.64E-05	0.000220685
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	1.068088243	5.64E-06	9.03E-05
ENSMMUG00000003851	kalirin RhoGEF kinase [Source:VGNC Symbol;Acc:VGNC:84161]	4.108114369	0.004218281	0.02081101
ENSMMUG000000032031		1.317291714	0.004945012	0.023627783
ENSMMUG000000049323		1.583466735	0.000849243	0.005746747
ENSMMUG00000001943	GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]	0.973008575	0.008128298	0.035063566
ENSMMUG000000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]	0.608449334	0.012551391	0.048977916
ENSMMUG000000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]	1.567920753	5.90E-08	1.96E-06
ENSMMUG000000014876	nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]	1.443410535	2.37E-05	0.000300566
ENSMMUG00000007843	CD200 receptor 1 like [Source:VGNC Symbol;Acc:VGNC:84212]	2.465117292	0.008636861	0.036781603
ENSMMUG00000003061	coiled-coil domain containing 80 [Source:VGNC Symbol;Acc:VGNC:70917]	2.934039358	4.02E-08	1.41E-06
ENSMMUG000000014236	solute carrier family 35 member A5 [Source:VGNC Symbol;Acc:VGNC:84077]	1.688810352	0.006860153	0.03063982
ENSMMUG00000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]	2.366069182	0.011188861	0.04488659
ENSMMUG000000019977	myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]	1.464291763	9.35E-05	0.000945425
ENSMMUG000000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	1.623617639	0.002082385	0.011967964
ENSMMUG000000008787	BBX high mobility group box domain containing [Source:VGNC Symbol;Acc:VGNC:82110]	0.922785436	0.001666674	0.010063495
ENSMMUG000000055345	Y RNA [Source:RFAM;Acc:RF00019]	0.784269117	0.002281562	0.012812781
ENSMMUG000000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]	0.602608427	0.000582884	0.004242301
ENSMMUG000000026103	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.856654265	0.002451929	0.013529822
ENSMMUG000000060744		1.578740453	1.35E-05	0.000188378
ENSMMUG000000021859	zona pellucida like domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79650]	1.271273969	0.000966919	0.006419476
ENSMMUG000000063181		0.512094276	0.00986951	0.040879886
ENSMMUG000000059753		0.601994681	0.005451032	0.025557361
ENSMMUG000000057768		-1.39189737	3.61E-05	0.000427365
ENSMMUG000000024598	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	4.707794128	0.000157547	0.001439513
ENSMMUG000000038349	crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]	1.399206476	3.87E-06	6.56E-05
ENSMMUG000000033738	RNA, U6atac small nuclear 6, pseudogene [Source:HGNC Symbol;Acc:HGNC:46905]	1.032339671	9.16E-05	0.000930962
ENSMMUG000000050994		1.940174927	0.001764153	0.010491345
ENSMMUG000000055096		0.962537413	0.000188887	0.001674942
ENSMMUG000000049913		1.291621786	0.010299861	0.042238569
ENSMMUG000000056687		1.657586048	1.26E-08	5.52E-07
ENSMMUG000000052831		0.665167415	0.005820979	0.026884819

ENSMMUG00000032295	zinc finger protein 595 [Source:VGNC Symbol;Acc:VGNC:79655]	1.215182271	8.35E-05	0.000864019
ENSMMUG00000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.547486178	5.12E-06	8.34E-05
ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	1.459883162	8.48E-09	4.01E-07
ENSMMUG00000012624	polycomb group ring finger 3 [Source:VGNC Symbol;Acc:VGNC:75593]	0.924690852	0.003198165	0.016806197
ENSMMUG00000017221	transmembrane protein 175 [Source:VGNC Symbol;Acc:VGNC:79736]	0.692000608	0.004065119	0.020226065
ENSMMUG00000008323	C-terminal binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71539]	0.634238663	0.000661174	0.004706746
ENSMMUG00000019945	fibroblast growth factor receptor 3 [Source:VGNC Symbol;Acc:VGNC:72653]	1.089669947	0.000200588	0.001766315
ENSMMUG00000046942	nuclear receptor binding SET domain protein 2 [Source:NCBI gene;Acc:100429321]	1.511391083	5.95E-05	0.000640608
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	0.741612048	0.006024316	0.027627736
ENSMMUG00000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	0.695816562	0.004856967	0.023309859
ENSMMUG00000008392	huntingtin [Source:VGNC Symbol;Acc:VGNC:73468]	0.640836403	0.005122652	0.024349914
ENSMMUG00000015099	janus kinase and microtubule interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73662]	0.648251219	0.004500191	0.02191675
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	1.385005092	6.19E-08	2.02E-06
ENSMMUG000000057703		1.437904612	5.18E-08	1.75E-06
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	1.402865443	1.54E-06	3.04E-05
ENSMMUG00000023242	transmembrane protein 128 [Source:VGNC Symbol;Acc:VGNC:82257]	0.773821466	0.00616752	0.028145534
ENSMMUG00000049640		0.860161555	0.002714205	0.014702602
ENSMMUG00000015298	CD38 molecule [Source:VGNC Symbol;Acc:VGNC:70762]	1.693796345	0.000451722	0.003422366
ENSMMUG00000008162	fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]	1.583836667	8.44E-08	2.62E-06
ENSMMUG00000008163	fibroblast growth factor binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72599]	1.937825027	0.001782241	0.010574738
ENSMMUG00000023116	LIM domain binding 2 [Source:VGNC Symbol;Acc:VGNC:74246]	0.609463946	0.005562612	0.025949544
ENSMMUG00000053953	mediator complex subunit 28 [Source:NCBI gene;Acc:722863]	2.072631227	0.00222455	0.012566029
ENSMMUG00000018073	ligand dependent nuclear receptor corepressor like [Source:NCBI gene;Acc:715285]	0.535257312	0.00866311	0.036857181
ENSMMUG00000057338		0.808669664	0.000150435	0.001389604
ENSMMUG00000060440	leucine rich repeat LGI family member 2 [Source:NCBI gene;Acc:693308]	-0.60524807	0.002974921	0.015831353
ENSMMUG00000049298	cholecystokinin A receptor [Source:NCBI gene;Acc:694742]	4.852347432	0.001063282	0.006935327
ENSMMUG00000051768		1.823578288	0.000244342	0.002074359
ENSMMUG00000060404		5.870143704	2.04E-07	5.62E-06
ENSMMUG00000050580		0.8929371	0.002141803	0.012209878
ENSMMUG00000055079		0.548831895	0.002954924	0.015770102
ENSMMUG00000002755	kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]	-4.31207065	2.49E-05	0.000314597
ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]	0.798739179	0.003603101	0.018456848
ENSMMUG00000012036	RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]	0.424904519	0.01016682	0.04187133

ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]	-	1.334646725	1.16E-08	5.14E-07
ENSMMUG00000007805	LIM and calponin homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74155]	-	2.227419027	4.08E-07	1.01E-05
ENSMMUG000000051296	paired like homeobox 2B [Source:NCBI gene;Acc:701940]	-	2.399480585	2.95E-05	0.000361604
ENSMMUG00000018625	NIPA like domain containing 1 [Source:NCBI gene;Acc:704998]	-	0.713900306	0.012704079	0.04941066
ENSMMUG000000055221	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.007279172	0.004742329	0.022903353
ENSMMUG00000006703	solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]	-	1.334562687	8.48E-05	0.000872353
ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]	-	0.999102322	0.000632896	0.004549137
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]	-	1.317880506	0.000591808	0.004285668
ENSMMUG00000014714	cell wall biogenesis 43 C-terminal homolog [Source:VGNC Symbol;Acc:VGNC:71583]	-	0.579901802	0.005757719	0.026639949
ENSMMUG000000058229	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	2.321948127	0.005360628	0.02522443
ENSMMUG000000008514	lin-54 DREAM MuvB core complex component [Source:VGNC Symbol;Acc:VGNC:74123]	-	1.642653364	0.000806818	0.005514174
ENSMMUG000000052743	stearoyl-CoA desaturase 5 [Source:NCBI gene;Acc:694079]	-	0.823771693	0.002330954	0.012983464
ENSMMUG000000048621	enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]	-	3.170431751	7.65E-08	2.43E-06
ENSMMUG000000060484	heterogeneous nuclear ribonucleoprotein D [Source:NCBI gene;Acc:694867]	-	1.301202839	1.32E-06	2.70E-05
ENSMMUG000000052348	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	-	1.616519516	2.31E-07	6.25E-06
ENSMMUG000000021988	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]	-	1.019888459	0.000218343	0.001897684
ENSMMUG000000007366		-	1.085319556	0.000758425	0.005255233
ENSMMUG000000002564		-	1.871943267	1.13E-05	0.000161433
ENSMMUG000000062865		-	1.247183564	0.000123041	0.001180142
ENSMMUG000000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	-	2.705038623	2.06E-08	8.47E-07
ENSMMUG00000018186	sosondawah ankyrin repeat domain family member B [Source:VGNC Symbol;Acc:VGNC:78033]	-	0.892805227	2.32E-05	0.000295888
ENSMMUG000000020919	shroom family member 3 [Source:VGNC Symbol;Acc:VGNC:77352]	-	2.006906765	0.006300559	0.028622099
ENSMMUG000000003833	Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]	-	1.631892589	0.000267326	0.002221628
ENSMMUG000000003830	alpha fetoprotein [Source:VGNC Symbol;Acc:VGNC:69741]	-	1.561587111	0.001134911	0.007330775
ENSMMUG000000003827	albumin [Source:VGNC Symbol;Acc:VGNC:69782]	-	1.175809394	0.002740805	0.014828165
ENSMMUG000000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	-	1.932099366	0.000145259	0.001353319
ENSMMUG000000062248	follicular dendritic cell secreted protein [Source:NCBI gene;Acc:707784]	-	2.114328553	2.48E-08	9.77E-07
ENSMMUG000000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]	-	2.296128742	2.62E-08	1.02E-06
ENSMMUG000000004849	casein beta [Source:VGNC Symbol;Acc:VGNC:71523]	-	0.942668438	0.003213346	0.016870093
ENSMMUG000000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	-	0.802190836	0.000554616	0.004077634
ENSMMUG000000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]	-	1.251426412	0.000535556	0.003962142
ENSMMUG000000057204	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.666817515	0.007533215	0.033068159

ENSMMUG00000018943	spermatogenesis associated 18 [Source:VGNC Symbol;Acc:VGNC:78013]	-	1.262937957	0.005072338	0.024156289
ENSMMUG00000018939	leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]	-	1.211538522	5.78E-05	0.000628586
ENSMMUG00000003726	protein tyrosine phosphatase non-receptor type 13 [Source:VGNC Symbol;Acc:VGNC:76599]	-	0.859220166	0.003000957	0.015943809
ENSMMUG00000014076	AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]	-	1.048530628	0.001867676	0.010976502
ENSMMUG000000051677		-	1.125622663	1.80E-05	0.000238404
ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]	-	0.727481206	0.002055239	0.011869644
ENSMMUG00000008795	polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]	-	0.615415081	0.010301456	0.042238569
ENSMMUG00000010316	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]	-	2.703799577	1.11E-07	3.30E-06
ENSMMUG00000010318	phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]	-	2.90406696	2.65E-06	4.84E-05
ENSMMUG000000058544	nucleosome assembly protein 1 like 5 [Source:NCBI gene;Acc:703223]	-	0.505116265	0.007841344	0.034108533
ENSMMUG00000012123	synuclein alpha [Source:VGNC Symbol;Acc:VGNC:77668]	-	3.541181038	4.36E-06	7.24E-05
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]	-	2.577808559	1.83E-08	7.77E-07
ENSMMUG00000022246	PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]	-	0.989972174	0.003398634	0.017589588
ENSMMUG000000060760		-	1.432774986	0.00648292	0.029252934
ENSMMUG00000006309	unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]	-	4.210663739	2.21E-05	0.000283752
ENSMMUG00000011702	tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]	-	1.439735567	9.23E-05	0.000935885
ENSMMUG000000063972		-	0.754615932	0.011960995	0.047247365
ENSMMUG00000018738	alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]	-	0.581993085	0.001046054	0.006833237
ENSMMUG000000061366		-	0.527449664	0.006550626	0.029520941
ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]	-	3.060096684	6.62E-14	1.87E-11
ENSMMUG000000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.510366728	5.88E-15	2.25E-12
ENSMMUG00000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	-	-3.3573236	5.09E-14	1.50E-11
ENSMMUG00000003739	mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]	-	1.372591798	0.009441016	0.039546447
ENSMMUG00000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	-	1.048483701	0.000200756	0.001766596
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	-	0.863050266	0.000107762	0.001056981
ENSMMUG00000049998	tachykinin receptor 3 [Source:NCBI gene;Acc:653013]	-	1.593673602	9.44E-06	0.00013703
ENSMMUG00000010941	Rho guanine nucleotide exchange factor 38 [Source:VGNC Symbol;Acc:VGNC:82087]	-	0.459153352	0.003748869	0.019031288
ENSMMUG00000018811	glutathione S-transferase C-terminal domain containing [Source:VGNC Symbol;Acc:VGNC:73234]	-	1.144189054	0.000510018	0.003794792
ENSMMUG000000060432		-	1.327782916	0.005169145	0.024491765
ENSMMUG000000052609	ribosomal protein L34 [Source:NCBI gene;Acc:696636]	-	2.461787954	3.66E-06	6.31E-05
ENSMMUG00000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	-	2.390627377	1.55E-06	3.05E-05
ENSMMUG000000055759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.999697785	1.80E-05	0.000238404
ENSMMUG00000005517	glutamyl aminopeptidase [Source:VGNC Symbol;Acc:VGNC:72221]	-	3.991156461	4.03E-05	0.000464276

ENSMMUG00000062794		2.730768464	4.46E-07	1.08E-05
ENSMMUG00000008705	ubiquitin specific peptidase 53 [Source:VGNC Symbol;Acc:VGNC:79793]	3.862013477	0.000734566	0.005136436
ENSMMUG00000061098		1.527946329	2.51E-08	9.86E-07
ENSMMUG00000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	0.97867135	0.000308079	0.002496498
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	0.649012881	0.001840323	0.010861092
ENSMMUG00000011810	FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]	1.718139805	5.31E-05	0.000586082
ENSMMUG00000051329		1.694357208	0.000146787	0.001366583
ENSMMUG00000015244	uncoupling protein 1 [Source:VGNC Symbol;Acc:VGNC:78708]	3.431931333	9.68E-06	0.000140146
ENSMMUG00000015246	TBC1 domain family member 9 [Source:VGNC Symbol;Acc:VGNC:78193]	4.557390298	4.37E-06	7.24E-05
ENSMMUG00000060157	zinc finger protein 330 [Source:NCBI gene;Acc:699364]	0.939347606	0.000397648	0.003085808
ENSMMUG00000000827	ubiquitin specific peptidase 38 [Source:VGNC Symbol;Acc:VGNC:79224]	2.054912359	0.001869838	0.010984243
ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]	2.087586165	1.56E-06	3.05E-05
ENSMMUG00000007968	hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]	0.989465166	0.003481299	0.017910513
ENSMMUG00000005380	zinc finger protein 827 [Source:NCBI gene;Acc:706018]	1.316297963	1.28E-05	0.000179775
ENSMMUG00000014953	Rho GTPase activating protein 10 [Source:VGNC Symbol;Acc:VGNC:69914]	1.261308058	0.007074971	0.031415867
ENSMMUG00000014955	nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]	1.914224101	7.82E-05	0.000814571
ENSMMUG00000002211	doublecortin like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71670]	0.928922886	0.003375851	0.01749953
ENSMMUG00000002212	LPS responsive beige-like anchor protein [Source:NCBI gene;Acc:693823]	1.728358485	0.000234473	0.002006283
ENSMMUG00000039441	mab-21 like 2 [Source:NCBI gene;Acc:693948]	2.207571932	0.001651743	0.009987245
ENSMMUG00000059101		2.571312244	5.88E-06	9.33E-05
ENSMMUG00000052327		1.528388028	0.002422312	0.013395075
ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]	0.946663282	0.000363329	0.002870875
ENSMMUG00000039869		-0.5489932	0.001954689	0.011390094
ENSMMUG00000057643		0.605784845	0.012518464	0.048908123
ENSMMUG00000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	0.620722694	0.009157755	0.038608027
ENSMMUG00000064074		0.732300512	0.008315665	0.035658931
ENSMMUG00000023244	guanylate cyclase 1 soluble subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73327]	1.602649869	0.003464391	0.017865927
ENSMMUG00000064707		1.120913807	0.012904671	0.049936969
ENSMMUG00000053790		1.30146221	1.02E-08	4.67E-07
ENSMMUG00000010581	Rap guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:76493]	2.033135775	0.001757341	0.010460404
ENSMMUG00000053881		2.202323934	0.000255782	0.002143489
ENSMMUG00000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	1.681439371	0.010685464	0.043240554
ENSMMUG00000001879	annexin A10 [Source:VGNC Symbol;Acc:VGNC:69945]	0.953680675	0.000343861	0.002740275
ENSMMUG00000001880	DExD/H-box helicase 60 [Source:VGNC Symbol;Acc:VGNC:71711]	1.032558612	0.000433135	0.003309844
ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]	0.885898947	0.004779357	0.023039407
ENSMMUG00000052179		1.617892067	0.010378024	0.042400013
ENSMMUG00000013730	WD repeat domain 17 [Source:NCBI gene;Acc:700546]	0.65931348	0.000249968	0.002108354

ENSMMUG00000013733	spermatogenesis associated 4 [Source:VGNC Symbol;Acc:VGNC:77938]	1.669225653	7.15E-18	5.47E-15
ENSMMUG00000058974		1.515534501	0.002113307	0.012113559
ENSMMUG00000011633	kallikrein B1 [Source:VGNC Symbol;Acc:VGNC:74195]	2.135795868	0.002144939	0.012209878
ENSMMUG00000018051	FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]	0.707215864	0.000371569	0.002918714
ENSMMUG00000050600		3.710801313	0.001566363	0.009591391
ENSMMUG00000058448		0.695831389	0.012698142	0.04941066
ENSMMUG00000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	2.54653709	7.80E-10	5.83E-08
ENSMMUG00000064721		2.694225473	0.001191521	0.007630196
ENSMMUG00000052287		2.451610345	0.000762985	0.005284019
ENSMMUG00000044628		2.617964345	0.000182087	0.00162096
ENSMMUG00000015797	disco interacting protein 2 homolog A [Source:VGNC Symbol;Acc:VGNC:71641]	0.484111634	0.003653323	0.018669988
ENSMMUG00000022324	formimidoyltransferase cyclodeaminase [Source:VGNC Symbol;Acc:VGNC:72825]	2.176772391	0.002690708	0.014587473
ENSMMUG00000052777		1.347454792	0.009346525	0.039213195
ENSMMUG00000010695	adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]	1.140618619	0.002259809	0.012728917
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]	1.44722932	2.65E-07	7.01E-06
ENSMMUG00000049755	leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]	3.118719801	9.25E-05	0.000937817
ENSMMUG00000004175	transient receptor potential cation channel subfamily M member 2 [Source:VGNC Symbol;Acc:VGNC:78655]	2.391532535	5.09E-05	0.000566542
ENSMMUG00000004173	phosphofructokinase, liver type [Source:VGNC Symbol;Acc:VGNC:81737]	1.079739485	5.77E-06	9.17E-05
ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]	2.321462074	3.22E-10	2.77E-08
ENSMMUG00000010647	inducible T cell costimulator ligand [Source:NCBI gene;Acc:722191]	1.814659676	0.000138863	0.001302131
ENSMMUG00000045179	1-acylglycerol-3-phosphate O-acyltransferase 3 [Source:NCBI gene;Acc:713301]	1.576803352	1.39E-09	8.98E-08
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]	1.177943443	0.001055049	0.006888535
ENSMMUG00000020050	salt inducible kinase 1 [Source:NCBI gene;Acc:722303]	2.128906958	0.002953112	0.015766903
ENSMMUG00000018081	ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]	1.140874641	0.005472136	0.025619365
ENSMMUG00000018079	transmembrane serine protease 3 [Source:VGNC Symbol;Acc:VGNC:78576]	-1.25206804	0.000417961	0.003216572
ENSMMUG00000018058	ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]	2.183111065	4.46E-07	1.08E-05
ENSMMUG00000018057	uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]	1.491559005	2.59E-05	0.000325032
ENSMMUG00000018053	zinc finger and BTB domain containing 21 [Source:VGNC Symbol;Acc:VGNC:78892]	0.824568546	0.000633088	0.004549137
ENSMMUG00000007030	C2 calcium dependent domain containing 2 [Source:VGNC Symbol;Acc:VGNC:70298]	2.636003129	0.002984524	0.015862983
ENSMMUG00000015329	MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]	2.53788768	1.43E-05	0.000197181
ENSMMUG00000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]	3.018969356	3.40E-08	1.24E-06
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]	2.776838407	1.33E-15	5.98E-13

ENSMMUG00000010296	ETS transcription factor ERG [Source:VGNC Symbol;Acc:VGNC:72427]	3.974139972	0.003268748	0.01709928
ENSMMUG00000056855	potassium inwardly rectifying channel subfamily J member 15 [Source:NCBI gene;Acc:693427]	2.757661923	0.001283335	0.008106386
ENSMMUG00000056593		3.473031359	2.78E-05	0.000344757
ENSMMUG00000017505	tetratricopeptide repeat domain 3 [Source:VGNC Symbol;Acc:VGNC:81785]	0.676185639	3.53E-06	6.14E-05
ENSMMUG00000062048		0.725436965	4.10E-05	0.000471215
ENSMMUG00000028022	Y RNA [Source:RFAM;Acc:RF00019]	1.012708199	0.00201862	0.0117032
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	0.591164776	0.000309236	0.002501198
ENSMMUG00000004605	chloride intracellular channel 6 [Source:VGNC Symbol;Acc:VGNC:71256]	0.832181551	0.009747962	0.040479564
ENSMMUG00000053087	mitochondrial ribosomal protein S6 [Source:NCBI gene;Acc:697852]	3.752304286	0.000191149	0.001693515
ENSMMUG00000065271		3.94737322	3.05E-06	5.41E-05
ENSMMUG00000003701	ATP synthase peripheral stalk subunit OSCP [Source:NCBI gene;Acc:698480]	2.121272668	0.000357467	0.002834891
ENSMMUG00000003703	crystallin zeta like 1 [Source:VGNC Symbol;Acc:VGNC:81297]	2.559059037	7.66E-05	0.000801017
ENSMMUG00000005511	SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]	2.310362653	1.06E-07	3.17E-06
ENSMMUG00000022702	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase [Source:VGNC Symbol;Acc:VGNC:72882]	1.866357073	1.28E-05	0.000179304
ENSMMUG00000003956	interferon alpha and beta receptor subunit 2 [Source:VGNC Symbol;Acc:VGNC:81330]	0.466622573	0.00590246	0.0271743
ENSMMUG00000052780		1.712409868	2.18E-08	8.80E-07
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	1.152468894	8.32E-07	1.84E-05
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	-2.58814451	2.88E-05	0.000355024
ENSMMUG00000056363		1.510005372	0.01108169	0.044524904
ENSMMUG00000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	1.425740232	5.28E-07	1.26E-05
ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	0.74276579	0.004957513	0.023670124
ENSMMUG00000060576		1.399255343	9.28E-06	0.000135223
ENSMMUG00000057702		0.944161193	0.001517669	0.009332768
ENSMMUG00000052328	FAM20C golgi associated secretory pathway kinase [Source:NCBI gene;Acc:695088]	1.670006088	0.001165192	0.007502219
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	3.618460472	1.87E-09	1.18E-07
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]	1.286188059	7.56E-07	1.70E-05
ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	1.003717893	3.36E-07	8.60E-06
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	1.172866455	9.56E-06	0.000138671
ENSMMUG00000030422	radial spoke head 10 homolog B [Source:NCBI gene;Acc:100424218]	0.535679245	0.001032994	0.006751316
ENSMMUG00000015477	lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]	0.911103954	0.002174481	0.012350182
ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	1.15951703	6.10E-06	9.56E-05
ENSMMUG00000011970	neuronal pentraxin 2 [Source:VGNC Symbol;Acc:VGNC:75392]	2.236004085	2.79E-06	5.05E-05
ENSMMUG00000023318	transformation/transcription domain associated protein [Source:VGNC Symbol;Acc:VGNC:78657]	0.684733796	1.93E-07	5.36E-06
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]	1.952260687	0.000425203	0.003260727
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]	1.575410005	8.84E-06	0.000130165

ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]	1.226729909	1.22E-07	3.55E-06
ENSMMUG00000022504	alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]	0.522707476	0.004250132	0.020906663
ENSMMUG00000004021	zinc finger protein 3 [Source:VGNC Symbol;Acc:VGNC:81889]	-2.19187247	0.010173403	0.041871925
ENSMMUG00000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]	0.614478162	0.000210154	0.001835635
ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]	0.458887737	0.00110511	0.007161464
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]	0.499304904	0.005865979	0.027054226
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]	1.625638594	9.82E-09	4.54E-07
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]	2.276471218	1.25E-08	5.52E-07
ENSMMUG00000004082	GRB10 interacting GYF protein 1 [Source:VGNC Symbol;Acc:VGNC:73158]	1.393266522	0.002350358	0.01306622
ENSMMUG00000022840	zonadhesin [Source:VGNC Symbol;Acc:VGNC:81797]	0.759245035	0.00749448	0.032952402
ENSMMUG00000060459		0.693926171	0.002350835	0.01306622
ENSMMUG00000063570	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.035190366	0.008662408	0.036857181
ENSMMUG00000058787		3.156830491	0.007514256	0.033028188
ENSMMUG00000011367	BUD23 rRNA methyltransferase and ribosome maturation factor [Source:VGNC Symbol;Acc:VGNC:70325]	3.164666682	0.007181049	0.031778402
ENSMMUG00000056841		1.150600754	0.009698276	0.040337631
ENSMMUG00000058227	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.667813594	0.007227855	0.031942059
ENSMMUG00000050132		1.175483583	9.38E-05	0.00094672
ENSMMUG00000015272	chaperonin containing TCP1 subunit 6A [Source:NCBI gene;Acc:703326]	0.888541855	1.29E-06	2.64E-05
ENSMMUG00000058499		4.426984379	0.007517754	0.033032403
ENSMMUG00000060184	SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]	6.273872	1.47E-06	2.93E-05
ENSMMUG00000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	0.722654463	0.000235465	0.002012125
ENSMMUG00000049620		1.260010991	0.006111071	0.027936937
ENSMMUG00000016191	ATP binding cassette subfamily A member 13 [Source:VGNC Symbol;Acc:VGNC:69402]	3.237062559	0.003339928	0.017361754
ENSMMUG00000019393	tensin 3 [Source:VGNC Symbol;Acc:VGNC:79324]	4.129781309	0.000424319	0.003256352
ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]	2.403228275	0.000266759	0.002218333
ENSMMUG00000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]	2.674139869	2.02E-06	3.83E-05
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	2.294406568	1.15E-11	1.69E-09
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	2.59182469	3.19E-15	1.26E-12
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	2.129032741	2.41E-11	3.10E-09
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	2.35990867	2.71E-11	3.39E-09
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	2.500391171	3.09E-09	1.73E-07
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	0.446616756	0.012010729	0.047423054
ENSMMUG00000057956		0.737333123	0.002769885	0.014960601
ENSMMUG00000053696	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.1467353	5.02E-05	0.000559578
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	1.966318926	2.20E-07	6.02E-06

ENSMMUG00000022451	proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]	2.258943674	3.68E-07	9.30E-06
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]	1.562088822	3.18E-08	1.18E-06
ENSMMUG000000065307		1.470354924	0.000650023	0.004650277
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	2.618928083	3.54E-10	3.03E-08
ENSMMUG000000058423		2.964156604	1.13E-07	3.32E-06
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]	1.485459231	0.000136538	0.001289626
ENSMMUG000000011695	5'-nucleotidase, cytosolic IIIA [Source:VGNC Symbol;Acc:VGNC:75423]	-0.50580495	0.012053712	0.047578325
ENSMMUG000000055809		1.980681804	0.000105844	0.001042098
ENSMMUG000000062454		2.197567295	4.67E-08	1.61E-06
ENSMMUG000000039009		1.760644702	0.000352828	0.002803226
ENSMMUG000000012529	pleckstrin homology domain containing A8 [Source:VGNC Symbol;Acc:VGNC:81741]	1.250093512	0.000136744	0.001290205
ENSMMUG000000020184	carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]	-2.81271879	4.34E-08	1.51E-06
ENSMMUG000000039317	cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]	2.168429387	0.001187419	0.007611423
ENSMMUG000000000517	family with sequence similarity 126 member A [Source:VGNC Symbol;Acc:VGNC:72327]	1.765031299	0.000888991	0.005993894
ENSMMUG000000042472	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.77772082	0.010724975	0.043359972
ENSMMUG000000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	2.788878118	1.27E-16	6.86E-14
ENSMMUG000000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	3.174476585	2.70E-20	3.51E-17
ENSMMUG000000062260		4.517819765	0.007132216	0.031616089
ENSMMUG000000052574		-1.13067812	3.50E-06	6.09E-05
ENSMMUG000000012694	thrombospondin type 1 domain containing 7A [Source:VGNC Symbol;Acc:VGNC:79347]	1.478818948	0.011826939	0.046923153
ENSMMUG000000041616	G protein subunit gamma 11 [Source:VGNC Symbol;Acc:VGNC:81319]	3.515081197	0.010430497	0.042540867
ENSMMUG000000045513		2.151331829	4.16E-08	1.46E-06
ENSMMUG000000019802	family with sequence similarity 133 member B [Source:NCBI gene;Acc:702054]	2.294697621	0.000396299	0.003079015
ENSMMUG000000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	1.654086612	2.80E-10	2.48E-08
ENSMMUG000000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	0.759113776	0.003897827	0.01959611
ENSMMUG000000006766	RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]	1.408446035	0.000432079	0.003303718
ENSMMUG000000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	0.581302817	0.011901147	0.047083121
ENSMMUG000000000480	KIAA1324 like [Source:VGNC Symbol;Acc:VGNC:73882]	2.723473859	0.004746778	0.022916329
ENSMMUG000000053516		1.741475483	3.95E-05	0.000457578
ENSMMUG000000049939		0.997762853	1.20E-06	2.47E-05
ENSMMUG000000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]	0.717865953	0.001683246	0.010135322
ENSMMUG000000012427	F-box and leucine rich repeat protein 13 [Source:VGNC Symbol;Acc:VGNC:81312]	0.666433805	0.001270017	0.00803397
ENSMMUG000000022727	lysine methyltransferase 2E [Source:VGNC Symbol;Acc:VGNC:74073]	4.477384671	0.000129149	0.001230561

ENSMMUG00000022732	SRSF protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:81764]	0.804261267	0.003021747	0.016047707
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	1.408148164	2.19E-06	4.09E-05
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	1.072866684	0.00158258	0.009645286
ENSMMUG00000030218	B cell receptor associated protein 29 [Source:VGNC Symbol;Acc:VGNC:70119]	0.537038984	0.006740244	0.030207997
ENSMMUG00000015535	inner mitochondrial membrane peptidase subunit 2 [Source:VGNC Symbol;Acc:VGNC:73596]	0.874320945	0.000257375	0.002152678
ENSMMUG00000062092		3.403398818	0.011131234	0.044696766
ENSMMUG00000058817		3.124145574	6.46E-11	7.24E-09
ENSMMUG0000007097	testin LIM domain protein [Source:VGNC Symbol;Acc:VGNC:78383]	0.530872564	0.008211678	0.035317818
ENSMMUG00000011269	CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]	0.906085345	0.000341808	0.002725663
ENSMMUG00000023308	potassium voltage-gated channel subfamily D member 2 [Source:VGNC Symbol;Acc:VGNC:73976]	1.941652603	0.001335861	0.008385233
ENSMMUG00000023310	tetraspanin 12 [Source:VGNC Symbol;Acc:VGNC:79328]	2.975435343	0.001771189	0.010523565
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]	-2.66170681	1.08E-07	3.20E-06
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]	1.305295394	1.11E-08	4.95E-07
ENSMMUG00000007250	RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]	0.928970969	0.004929012	0.023594673
ENSMMUG00000012110	smoothened, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	1.543126414	1.89E-07	5.28E-06
ENSMMUG00000041919	nuclear respiratory factor 1 [Source:VGNC Symbol;Acc:VGNC:81731]	2.790494101	2.54E-07	6.77E-06
ENSMMUG00000009494	carboxypeptidase A5 [Source:VGNC Symbol;Acc:VGNC:71410]	0.958146701	0.001968665	0.011446075
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	1.451480389	0.003802341	0.019220074
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	1.593427202	0.001589346	0.009672924
ENSMMUG00000025903		3.050375783	0.010343391	0.042357091
ENSMMUG00000001671	coiled-coil-helix-coiled-coil-helix domain containing 3 [Source:VGNC Symbol;Acc:VGNC:80860]	1.430670148	0.001383089	0.008639987
ENSMMUG00000000917	aldo-keto reductase family 1 member B [Source:NCBI gene;Acc:705957]	1.627931404	0.003232391	0.016939761
ENSMMUG00000013098	aldo-keto reductase family 1 member B10 [Source:NCBI gene;Acc:713150]	3.399011646	3.31E-06	5.83E-05
ENSMMUG00000037485		3.150834268	0.005967297	0.027433959
ENSMMUG00000054821		2.741940979	0.008773613	0.037220122
ENSMMUG00000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	0.967661211	1.79E-05	0.000237441
ENSMMUG00000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.126700287	4.65E-09	2.42E-07
ENSMMUG00000002995	tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]	0.720443227	0.012914649	0.049960715
ENSMMUG00000006547	ATPase H+ transporting V0 subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]	3.024860408	0.002327104	0.012982861
ENSMMUG00000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	1.842268285	0.00128904	0.008134526

ENSMMUG00000013645	tetratricopeptide repeat domain 26 [Source:VGNC Symbol;Acc:VGNC:79341]	-	0.833878605	0.010881662	0.04385711
ENSMMUG00000004224	poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]	-	0.972449212	3.42E-05	0.000410181
ENSMMUG000000056175		-	0.789553822	0.004792318	0.023087405
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	-	1.088018059	8.65E-08	2.67E-06
ENSMMUG00000015870	solute carrier family 37 member 3 [Source:VGNC Symbol;Acc:VGNC:81574]	-	1.61761375	1.84E-05	0.000243341
ENSMMUG00000010420	makorin ring finger protein 1 [Source:VGNC Symbol;Acc:VGNC:81476]	-	0.733229157	0.010556204	0.042917783
ENSMMUG000000042299	DENN domain containing 2A [Source:VGNC Symbol;Acc:VGNC:81302]	-	2.755422269	0.005195701	0.024581771
ENSMMUG000000060893		-	1.634773626	0.001343156	0.008418836
ENSMMUG000000064529		-	1.022170943	0.0001471	0.001368012
ENSMMUG000000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	-	1.110406434	1.62E-05	0.000218466
ENSMMUG000000042443	olfactory receptor 9A4 [Source:NCBI gene;Acc:695321]	-	3.281917153	7.13E-06	0.000108676
ENSMMUG000000055710	taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]	-	2.307483787	0.000149448	0.001382449
ENSMMUG000000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	-	2.933987394	9.39E-13	2.04E-10
ENSMMUG000000049575	T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]	-	1.378176391	8.25E-06	0.000122561
ENSMMUG000000061255		-	2.259765163	0.001672704	0.010085855
ENSMMUG000000049767		-	3.187080436	0.007093222	0.03148616
ENSMMUG000000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	-	1.538119447	1.52E-06	3.00E-05
ENSMMUG000000016286	protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]	-	0.960467569	0.006245352	0.028410999
ENSMMUG000000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	-	1.816418137	5.26E-05	0.000581535
ENSMMUG000000052682		-	1.841286131	0.001162709	0.007489945
ENSMMUG000000059019		-	1.824820338	0.000612167	0.004420793
ENSMMUG000000058459		-	3.007971781	0.002744168	0.014840184
ENSMMUG000000006571	Kell metallo-endopeptidase [Source:VGNC Symbol;Acc:VGNC:81628]	-	3.479734643	5.87E-08	1.95E-06
ENSMMUG000000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	-	1.333499261	1.23E-09	8.32E-08
ENSMMUG000000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	-	1.349136463	1.38E-09	8.98E-08
ENSMMUG000000058370	taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]	-	2.828195217	0.004072323	0.020233825
ENSMMUG000000062641		-	1.149016083	0.00015904	0.001447497
ENSMMUG000000042798		-	1.141396084	0.000742516	0.005180878
ENSMMUG000000063823	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.843091612	0.012598405	0.049073031
ENSMMUG000000013955	TRPM8 channel associated factor 2 [Source:NCBI gene;Acc:707579]	-	0.893682713	7.94E-05	0.000824389
ENSMMUG000000057973		-	2.394288254	0.000158132	0.001442258
ENSMMUG000000011788	zinc finger protein 212 [Source:VGNC Symbol;Acc:VGNC:78418]	-	1.098966722	0.004587224	0.022295008
ENSMMUG000000002497	zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]	-	1.492286594	1.10E-05	0.000158019

ENSMMUG00000051020	zinc finger protein 467 [Source:NCBI gene;Acc:712106]	1.640909435	1.59E-06	3.09E-05
ENSMMUG00000048892	SCO-spondin [Source:VGNC Symbol;Acc:VGNC:81765]	0.778722787	0.003714829	0.018895216
ENSMMUG00000022633	replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]	2.117372776	3.02E-08	1.14E-06
ENSMMUG00000062696		1.591138884	0.000303914	0.002469855
ENSMMUG00000022636	GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]	-1.17065675	0.001683025	0.010135322
ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	2.030992435	8.97E-10	6.55E-08
ENSMMUG00000052830		1.451179842	0.000516748	0.003836089
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	0.776187145	0.005214709	0.024644805
ENSMMUG00000012238	polypeptide N-acetylgalactosaminyltransferase 11 [Source:VGNC Symbol;Acc:VGNC:72749]	1.222486929	0.000364292	0.002875541
ENSMMUG00000062591	insulin induced gene 1 [Source:NCBI gene;Acc:718513]	0.883736897	0.002418681	0.013386114
ENSMMUG00000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	0.651107766	0.000867897	0.005866878
ENSMMUG00000019205	ADAM metalloproteinase with thrombospondin type 1 motif 16 [Source:VGNC Symbol;Acc:VGNC:69439]	1.189703064	0.009395375	0.039392728
ENSMMUG00000018746	FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]	1.210059303	0.009014048	0.038100979
ENSMMUG00000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]	0.969439943	0.001521624	0.009352664
ENSMMUG00000061922		0.703855083	4.12E-06	6.89E-05
ENSMMUG00000021942	ANKH inorganic pyrophosphate transport regulator [Source:VGNC Symbol;Acc:VGNC:69612]	-0.81756643	0.005231502	0.024696487
ENSMMUG00000062083		1.999375574	0.001755902	0.010456623
ENSMMUG00000059036		2.586075031	0.000173612	0.001559389
ENSMMUG00000059710		1.563895882	0.005860353	0.02703787
ENSMMUG00000060891	histone H3.Y [Source:NCBI gene;Acc:718280]	2.098260915	0.003541393	0.018176541
ENSMMUG00000013467	alpha-methylacyl-CoA racemase [Source:NCBI gene;Acc:698365]	1.843798178	8.67E-05	0.000888603
ENSMMUG00000018739	sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]	5.439284728	4.32E-06	7.19E-05
ENSMMUG00000006107	WD repeat domain 70 [Source:VGNC Symbol;Acc:VGNC:79504]	1.426402144	5.55E-07	1.31E-05
ENSMMUG00000004774	maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]	2.374853867	0.00015147	0.001398171
ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]	1.388858544	0.000873066	0.005895685
ENSMMUG00000011734	nicotinamide nucleotide transhydrogenase [Source:VGNC Symbol;Acc:VGNC:75363]	1.845223842	0.00201714	0.0117032
ENSMMUG00000016149	embigin [Source:VGNC Symbol;Acc:VGNC:72144]	3.396957952	0.004057237	0.020224222
ENSMMUG00000003984	ISL LIM homeobox 1 [Source:VGNC Symbol;Acc:VGNC:73770]	3.959457639	0.006052504	0.027737444
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]	1.713921894	4.20E-08	1.46E-06
ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]	1.976641329	4.09E-09	2.18E-07
ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]	1.067119012	0.000589285	0.004274535
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	2.535215212	9.66E-08	2.92E-06
ENSMMUG00000061973		2.208136759	5.24E-12	9.20E-10

ENSMMUG00000051661		-	1.104150826	0.008092744	0.034956568
ENSMMUG00000005181	RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]	-1.29818527	0.001692315	0.010180503	
ENSMMUG00000021812	ERCC excision repair 8, CSA ubiquitin ligase complex subunit [Source:VGNC Symbol;Acc:VGNC:72425]	0.84511215	2.93E-06	5.25E-05	
ENSMMUG00000060505		-	1.235901484	0.007689271	0.033559283
ENSMMUG00000015041	CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]	2.882501242	9.66E-05	0.00096836	
ENSMMUG00000051169		-	1.850210536	0.007950486	0.034514027
ENSMMUG00000016522	neurolysin [Source:VGNC Symbol;Acc:VGNC:75183]	0.738583093	0.000101433	0.001007051	
ENSMMUG00000038355		-	3.836058152	0.010762326	0.043497454
ENSMMUG00000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]	1.309750215	1.13E-05	0.000161905	
ENSMMUG00000006217	general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]	1.778827211	0.000172352	0.001550214	
ENSMMUG00000011061	ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]	0.696600872	0.000103699	0.001023751	
ENSMMUG00000022982	IQ motif containing GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:73756]	2.429788833	0.000114486	0.001112028	
ENSMMUG00000006795	dimethylglycine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:84292]	2.710178771	0.001632022	0.009890999	
ENSMMUG00000006796	betaine--homocysteine S-methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70248]	1.088697065	0.01174746	0.046652662	
ENSMMUG00000003143	thrombospondin 4 [Source:VGNC Symbol;Acc:VGNC:78346]	1.041901278	0.007139369	0.031637012	
ENSMMUG00000036820	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	1.522509934	9.17E-06	0.000134079	
ENSMMUG00000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	2.845177714	6.91E-11	7.68E-09	
ENSMMUG00000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	0.975132243	0.005534222	0.025844917	
ENSMMUG00000046560	transmembrane protein 167A [Source:VGNC Symbol;Acc:VGNC:84513]	0.891303483	0.009265966	0.038925439	
ENSMMUG00000064265	X-ray repair cross complementing 4 [Source:NCBI gene;Acc:712291]	0.895356765	0.000477412	0.003568514	
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	3.281916334	2.16E-15	9.05E-13	
ENSMMUG00000061282	hyaluronan and proteoglycan link protein 1 [Source:NCBI gene;Acc:712501]	4.42640472	0.006548451	0.029520941	
ENSMMUG00000057003	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.715934307	0.005806627	0.026847136	
ENSMMUG00000009319	transmembrane protein 161B [Source:VGNC Symbol;Acc:VGNC:84508]	1.264614896	0.001461691	0.009035526	
ENSMMUG00000019836	myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]	1.459521896	0.000587464	0.004266083	
ENSMMUG00000055392		-	1.533983124	1.45E-05	0.000198948
ENSMMUG00000056790		-	5.675702763	1.86E-12	3.65E-10
ENSMMUG00000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	1.436526608	3.15E-10	2.73E-08	
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	2.146635031	9.00E-11	9.44E-09	
ENSMMUG00000010632	family with sequence similarity 81 member B [Source:VGNC Symbol;Acc:VGNC:72365]	3.132354634	0.007421851	0.032677248	

ENSMMUG0000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	-	0.544876828	0.00400111	0.020030189
ENSMMUG0000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]	-	0.935111897	0.000574338	0.004196542
ENSMMUG0000005314	elongation factor for RNA polymerase II 2 [Source:VGNC Symbol;Acc:VGNC:84368]	-	1.035040926	0.000382766	0.002989945
ENSMMUG00000011043	endoplasmic reticulum aminopeptidase 2 [Source:VGNC Symbol;Acc:VGNC:72141]	-	0.413336912	0.003881927	0.019546396
ENSMMUG00000054789	family with sequence similarity 174 member A [Source:NCBI gene;Acc:702300]	-	0.537759278	0.000171213	0.001542104
ENSMMUG0000007773	solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]	-	3.459575514	2.64E-06	4.83E-05
ENSMMUG00000013183	F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]	-	0.747754132	0.002126066	0.012154553
ENSMMUG00000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]	-	1.651017488	2.26E-09	1.37E-07
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	-	1.700601778	0.000282537	0.002324274
ENSMMUG00000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	-	1.489794578	3.27E-05	0.000395445
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	-	1.539737295	1.62E-06	3.15E-05
ENSMMUG0000005018	protein geranylgeranyltransferase type I subunit beta [Source:VGNC Symbol;Acc:VGNC:75965]	-	3.325606056	0.000157571	0.001439513
ENSMMUG00000015114	toll like receptor adaptor molecule 2 [Source:NCBI gene;Acc:100426353]	-	0.329112778	0.003473899	0.017893677
ENSMMUG00000060812	autophagy related 12 [Source:NCBI gene;Acc:696765]	-	0.989884638	6.04E-05	0.000650255
ENSMMUG00000022192		-	1.546644395	0.001028699	0.006726624
ENSMMUG00000037127	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	-1.64939309	0.010666458	0.043190519
ENSMMUG00000063474		-	0.565615332	0.000112348	0.001095348
ENSMMUG00000053794		-	-1.20067248	0.007021962	0.031233802
ENSMMUG00000046428		-	1.069456299	0.000836745	0.005676943
ENSMMUG00000023598	sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]	-	2.178575294	0.002476255	0.01362936
ENSMMUG00000006646	casein kinase 1 gamma 3 [Source:VGNC Symbol;Acc:VGNC:81384]	-	0.919199529	0.000299248	0.002441669
ENSMMUG00000063396		-	5.335602796	0.007035362	0.031272016
ENSMMUG00000011214	solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]	-	1.457728528	5.64E-05	0.000615508
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	-	0.951805465	1.39E-06	2.80E-05
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	-	0.916721989	7.18E-06	0.000109335
ENSMMUG00000010858	prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]	-	4.146803163	5.82E-12	9.82E-10
ENSMMUG00000051989	interleukin 5 [Source:NCBI gene;Acc:710622]	-	2.827035396	0.008563577	0.036553292
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	-	0.884600258	0.003111733	0.016431669
ENSMMUG00000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]	-	1.356668974	0.00237333	0.013163126
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	-	1.111151556	2.83E-06	5.09E-05
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	-	1.285654247	1.65E-05	0.000221975
ENSMMUG00000010309	septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]	-	1.610493997	0.000208426	0.001821769
ENSMMUG00000060221	growth differentiation factor 9 [Source:NCBI gene;Acc:712792]	-	0.917533799	0.000381911	0.00298865

ENSMMUG00000015640	AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]	-	0.954221149	0.000368457	0.002898977
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	-	2.850281338	8.87E-25	2.38E-21
ENSMMUG00000016641	ubiquitin conjugating enzyme E2 B [Source:VGNC Symbol;Acc:VGNC:78692]	-	1.052657157	0.001809492	0.010716871
ENSMMUG00000053384		-	2.173312776	4.62E-20	5.46E-17
ENSMMUG00000058096	CDKN2A interacting protein N-terminal like [Source:NCBI gene;Acc:710774]	-	1.196535191	0.000237124	0.002022318
ENSMMUG00000012463	DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]	-	1.679649919	2.72E-06	4.94E-05
ENSMMUG00000060605		-	0.828952135	0.003728518	0.018950021
ENSMMUG00000016357	polycystin 2 like 2, transient receptor potential cation channel [Source:VGNC Symbol;Acc:VGNC:76009]	-	-2.33806641	0.001341962	0.008417207
ENSMMUG0000008009	family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]	-	2.337971713	2.90E-10	2.53E-08
ENSMMUG0000001507	bromodomain containing 8 [Source:VGNC Symbol;Acc:VGNC:70350]	-	2.860380854	0.012480668	0.048789772
ENSMMUG00000016741	matrin 3 [Source:NCBI gene;Acc:100568450]	-	1.232422161	0.010266991	0.042149592
ENSMMUG0000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]	-	0.477127527	1.68E-05	0.000224902
ENSMMUG00000028372	Y RNA [Source:RFAM;Acc:RF00019]	-	2.729816251	0.005640644	0.026219518
ENSMMUG00000003279	prefoldin subunit 1 [Source:VGNC Symbol;Acc:VGNC:75956]	-	3.328882704	6.58E-10	5.10E-08
ENSMMUG00000019582	ankyrin repeat and KH domain-containing protein 1 [Source:NCBI gene;Acc:698045]	-	0.674868645	7.55E-06	0.000114014
ENSMMUG0000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]	-	2.389756837	6.45E-09	3.18E-07
ENSMMUG0000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	-	1.81936277	3.88E-06	6.56E-05
ENSMMUG00000062326		-	2.146925689	1.05E-07	3.16E-06
ENSMMUG00000024537		-	2.881677915	0.001249081	0.007920792
ENSMMUG00000010007	CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]	-	2.1056584	9.19E-06	0.00013421
ENSMMUG00000060632		-	1.897808585	0.002671802	0.014515228
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]	-	2.086151504	6.51E-07	1.51E-05
ENSMMUG00000056796	NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]	-	2.037911154	0.001542715	0.009459946
ENSMMUG00000008710	protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]	-	2.303695414	1.56E-05	0.000211482
ENSMMUG00000006287	DAP3 binding cell death enhancer 1 [Source:VGNC Symbol;Acc:VGNC:71806]	-	0.609355584	0.004153399	0.02058655
ENSMMUG00000006291	protocadherin 12 [Source:VGNC Symbol;Acc:VGNC:75776]	-	1.024917887	0.000137852	0.001297323
ENSMMUG00000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]	-	0.724951812	0.00074237	0.005180878
ENSMMUG00000009770	glucosamine-6-phosphate deaminase 1 [Source:VGNC Symbol;Acc:VGNC:73101]	-	0.3461463	0.007537539	0.033074641
ENSMMUG00000060402		-	2.295485945	2.74E-08	1.05E-06
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]	-	1.580122681	0.000141873	0.001327478
ENSMMUG00000050405		-	1.928031817	2.43E-06	4.49E-05
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]	-	1.633617244	8.56E-07	1.88E-05
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	-	0.934324915	0.000931823	0.006208649

ENSMMUG00000056140	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.573415911	0.000915185	0.00612289
ENSMMUG00000063983		2.668993672	0.008555567	0.036538388
ENSMMUG00000001758	casein kinase 1 alpha 1 [Source:VGNC Symbol;Acc:VGNC:84290]	-2.29066335	0.002843222	0.015280555
ENSMMUG00000029776	solute carrier family 26 member 2 [Source:VGNC Symbol;Acc:VGNC:84492]	0.683595205	0.005229503	0.024696487
ENSMMUG00000011557	platelet derived growth factor receptor beta [Source:VGNC Symbol;Acc:VGNC:75929]	0.6058081	0.000461139	0.003478872
ENSMMUG00000011563	calcium/calmodulin dependent protein kinase II alpha [Source:VGNC Symbol;Acc:VGNC:70523]	4.081050193	0.000147602	0.001371222
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	0.787025312	0.001026679	0.006720173
ENSMMUG00000020679	myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]	1.419714958	1.50E-06	2.98E-05
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	1.699603492	2.52E-06	4.64E-05
ENSMMUG00000019764	dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]	1.539570173	0.000115199	0.001117288
ENSMMUG00000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]	0.940596223	0.000909302	0.006092929
ENSMMUG00000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]	1.175673066	2.78E-05	0.000344462
ENSMMUG00000003499	solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]	0.912623924	0.012840052	0.049760942
ENSMMUG00000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	0.703516057	0.003704331	0.018863953
ENSMMUG00000054302	antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]	1.007518467	0.005525019	0.02582048
ENSMMUG00000056369	SAP30 like [Source:NCBI gene;Acc:714400]	3.522243734	0.011513463	0.04589154
ENSMMUG00000050350		3.741554029	0.003854365	0.019430183
ENSMMUG00000002272	clathrin interactor 1 [Source:VGNC Symbol;Acc:VGNC:84289]	1.997401126	0.00157864	0.009639837
ENSMMUG00000059241		5.024554044	4.71E-09	2.44E-07
ENSMMUG00000003067	endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]	0.798858194	2.48E-05	0.000313139
ENSMMUG00000004932	msh homeobox 2 [Source:VGNC Symbol;Acc:VGNC:84448]	3.269079033	0.000978421	0.006474706
ENSMMUG00000059262		1.408170432	0.009143321	0.038578877
ENSMMUG00000009059	Fas associated factor family member 2 [Source:VGNC Symbol;Acc:VGNC:72332]	1.518040023	0.003418559	0.017664593
ENSMMUG00000013283	cadherin related family member 2 [Source:NCBI gene;Acc:697249]	2.039966598	6.13E-07	1.43E-05
ENSMMUG00000013284	G protein regulated inducer of neurite outgrowth 1 [Source:VGNC Symbol;Acc:VGNC:72998]	2.229345089	0.004239338	0.020861456
ENSMMUG00000000137	synuclein beta [Source:VGNC Symbol;Acc:VGNC:77670]	3.846255544	0.002678723	0.014535271
ENSMMUG00000002649	unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]	4.430947517	2.99E-05	0.000365809
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	0.913891217	2.49E-06	4.59E-05
ENSMMUG00000009045	RAB24, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81524]	2.193994554	0.000599976	0.004342396
ENSMMUG00000016192	lectin, mannose binding 2 [Source:VGNC Symbol;Acc:VGNC:74302]	0.731541304	0.000159279	0.001448661
ENSMMUG00000019807	regulator of G protein signaling 14 [Source:VGNC Symbol;Acc:VGNC:76918]	0.513528782	0.001726918	0.010321829
ENSMMUG00000016914	docking protein 3 [Source:VGNC Symbol;Acc:VGNC:71897]	0.673928461	0.004369535	0.021388851

ENSMMUG00000016911	DEAD-box helicase 41 [Source:VGNC Symbol;Acc:VGNC:71660]	1.175934539	0.009327778	0.039147168
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	1.33945157	3.61E-06	6.24E-05
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	0.889750224	0.000437321	0.003335948
ENSMMUG000000062522		1.597414375	3.85E-07	9.64E-06
ENSMMUG000000061151		1.588884521	0.000285477	0.002345489
ENSMMUG000000054414		1.314777031	0.000177814	0.001589449
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	1.541344081	1.38E-07	3.98E-06
ENSMMUG000000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	1.233940974	2.79E-05	0.000345013
ENSMMUG000000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	1.008263068	8.41E-05	0.000868042
ENSMMUG000000021044	afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]	1.34589715	7.26E-08	2.34E-06
ENSMMUG000000053990		2.039295143	9.16E-07	1.99E-05
ENSMMUG000000062443		1.086168652	0.000639716	0.00458663
ENSMMUG000000057859		2.048704515	1.82E-05	0.000240709
ENSMMUG000000057983		4.012098275	0.000236857	0.002021365
ENSMMUG000000054834		0.40200988	0.011651644	0.04634149
ENSMMUG000000050418	superoxide dismutase 2 [Source:NCBI gene;Acc:574097]	3.131347055	2.40E-08	9.53E-07
ENSMMUG000000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]	2.373874477	1.69E-09	1.08E-07
ENSMMUG000000008184	methyltransferase like 24 [Source:VGNC Symbol;Acc:VGNC:74552]	1.657727978	4.58E-06	7.57E-05
ENSMMUG000000021534	solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]	3.094329107	8.89E-05	0.000908041
ENSMMUG000000061031		4.800339963	2.61E-14	8.47E-12
ENSMMUG000000060903		1.167347224	7.81E-08	2.46E-06
ENSMMUG000000051427		1.055372563	0.0024674	0.013592125
ENSMMUG000000058557		1.657501987	3.40E-05	0.000408589
ENSMMUG000000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]	1.779646902	2.55E-05	0.000320754
ENSMMUG000000023737	vestigial like family member 2 [Source:VGNC Symbol;Acc:VGNC:79237]	0.846948331	0.004052663	0.020218234
ENSMMUG000000059327	NUS1 dehydrodolichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]	1.227672194	2.27E-06	4.22E-05
ENSMMUG000000008525	minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]	2.227816892	0.002384353	0.013218624
ENSMMUG000000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	2.925951183	0.000445057	0.003381081
ENSMMUG000000060822		-0.87533167	0.001231782	0.007841685
ENSMMUG000000018176	clavesin 2 [Source:VGNC Symbol;Acc:VGNC:71322]	0.762992502	0.00262752	0.014316514
ENSMMUG000000009725	triadin [Source:HGNC Symbol;Acc:HGNC:12261]	0.619931478	0.004192947	0.020727276
ENSMMUG000000015317	HD domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73209]	3.438689359	2.09E-08	8.54E-07
ENSMMUG000000060901		1.045919786	0.000279064	0.002301522
ENSMMUG000000015352	ethylmalonyl-CoA decarboxylase 1 [Source:VGNC Symbol;Acc:VGNC:81063]	4.028430505	1.19E-05	0.000169242
ENSMMUG000000048882	KIAA0408 ortholog [Source:NCBI gene;Acc:100429459]	0.490917068	0.005745189	0.026614337
ENSMMUG000000022136	laminin subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:74225]	0.71504648	0.005341992	0.02515494
ENSMMUG000000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]	0.735694888	0.001322545	0.008309674

ENSMMUG00000021499	sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]	-1.40789959	8.45E-06	0.000124932
ENSMMUG00000017544	mediator complex subunit 23 [Source:VGNC Symbol;Acc:VGNC:74562]	0.81414296	8.26E-05	0.000855962
ENSMMUG00000004996	monooxygenase DBH like 1 [Source:VGNC Symbol;Acc:VGNC:74800]	1.099308559	0.000187904	0.001669678
ENSMMUG00000004988	trace amine-associated receptor 3 [Source:NCBI gene;Acc:709130]	0.931362046	0.006415589	0.029043211
ENSMMUG00000004987	trace amine associated receptor 2 [Source:VGNC Symbol;Acc:VGNC:83475]	1.167515036	0.009457712	0.039584662
ENSMMUG00000015088	trace amine associated receptor 1 [Source:VGNC Symbol;Acc:VGNC:83474]	2.862759628	0.009548165	0.039866272
ENSMMUG000000054573		1.149646115	0.000242202	0.002057532
ENSMMUG00000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	1.642486117	2.57E-07	6.83E-06
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	1.532998315	5.88E-05	0.000636258
ENSMMUG000000061787		2.546825348	0.003179702	0.016729449
ENSMMUG00000018166	MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]	0.93926177	0.001091388	0.007086667
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	1.394441408	9.32E-08	2.83E-06
ENSMMUG00000044284	40S ribosomal protein S11-like [Source:NCBI gene;Acc:706532]	1.074927835	0.004221283	0.02081101
ENSMMUG00000016376	mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]	1.145088674	0.00091916	0.006143161
ENSMMUG00000019136	taxilin beta [Source:VGNC Symbol;Acc:VGNC:79325]	0.407663221	0.005619187	0.026138464
ENSMMUG000000058187		1.563412134	2.67E-06	4.85E-05
ENSMMUG00000023012	vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]	2.095715044	0.000105104	0.001035589
ENSMMUG00000044958	adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]	1.911191705	2.58E-07	6.84E-06
ENSMMUG000000061117		1.443633691	0.000118116	0.001138931
ENSMMUG00000003750	PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]	1.669052414	3.63E-05	0.000429089
ENSMMUG00000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	2.167272867	2.89E-07	7.49E-06
ENSMMUG000000059202	Y RNA [Source:RFAM;Acc:RF00019]	3.678051262	0.002653629	0.014428551
ENSMMUG00000029475	zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]	2.238360754	3.86E-05	0.000448967
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	2.364281712	2.68E-08	1.03E-06
ENSMMUG000000060940	acidic residue methyltransferase 1 [Source:NCBI gene;Acc:704570]	4.383493399	1.63E-05	0.000219692
ENSMMUG00000018346	coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]	2.339568817	0.000179162	0.001599304
ENSMMUG00000025949	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.212381595	0.010130175	0.04174685
ENSMMUG00000019045	estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]	1.179297512	0.000203974	0.001786452
ENSMMUG000000057697		1.761869179	8.32E-07	1.84E-05
ENSMMUG000000051522	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.574523937	0.000833964	0.00566695
ENSMMUG000000051271		3.054486121	1.15E-11	1.69E-09

ENSMMUG0000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	0.467915526	0.002230353	0.012584805
ENSMMUG00000005925	PNN interacting serine and arginine rich protein [Source:VGNC Symbol;Acc:VGNC:76090]	2.332673129	0.004186324	0.020710279
ENSMMUG00000005923	failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]	1.395003803	0.001750433	0.01044318
ENSMMUG00000009182	caspase 8 associated protein 2 [Source:VGNC Symbol;Acc:VGNC:70548]	4.470023174	0.000472379	0.003536997
ENSMMUG00000003462	ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]	0.716123555	0.001718559	0.010288517
ENSMMUG000000064235		0.621799396	0.000428777	0.003282329
ENSMMUG000000017039	arginyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:76516]	0.77463338	0.000110732	0.001082032
ENSMMUG00000005446	sorting nexin 14 [Source:VGNC Symbol;Acc:VGNC:77708]	1.631026798	1.67E-05	0.000223476
ENSMMUG000000064804		0.985608557	0.006251714	0.028429996
ENSMMUG00000005442	5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]	-0.88424562	0.002265399	0.012749364
ENSMMUG000000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	1.895934806	3.92E-06	6.61E-05
ENSMMUG00000004491	SUMO specific peptidase 6 [Source:VGNC Symbol;Acc:VGNC:77287]	0.455188362	0.003920183	0.019678079
ENSMMUG000000019261	collagen type XII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71291]	-0.3071268	0.006347279	0.028774036
ENSMMUG000000062339	endogenous retrovirus group K member 25 Env polyprotein-like [Source:NCBI gene;Acc:114677579]	0.774841952	0.006096772	0.027910812
ENSMMUG00000002777	protein tyrosine phosphatase 4A1 [Source:VGNC Symbol;Acc:VGNC:83452]	0.716484903	0.006030277	0.027645324
ENSMMUG000000011858	bone morphogenetic protein 5 [Source:VGNC Symbol;Acc:VGNC:70264]	1.6388639	5.28E-05	0.000582951
ENSMMUG000000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	1.017646102	0.004821884	0.023184261
ENSMMUG000000011049	leucine rich repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:81087]	2.601824569	6.24E-08	2.03E-06
ENSMMUG000000013718	translocation associated membrane protein 2 [Source:VGNC Symbol;Acc:VGNC:83515]	1.046649353	0.000157762	0.001439898
ENSMMUG000000052626	progesterone and adipoQ receptor family member 8 [Source:NCBI gene;Acc:708418]	0.598110173	0.001668111	0.010067495
ENSMMUG000000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	1.978137509	2.77E-07	7.21E-06
ENSMMUG000000053984		1.885068486	0.009058623	0.038264517
ENSMMUG000000019254	phospholipase A2 group VII [Source:VGNC Symbol;Acc:VGNC:76158]	-0.92822127	0.000278271	0.002296439
ENSMMUG000000019250	solute carrier family 25 member 27 [Source:VGNC Symbol;Acc:VGNC:77543]	0.526268012	0.004062912	0.020226065
ENSMMUG000000055199	cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]	1.676001077	0.000438178	0.00334006
ENSMMUG000000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	2.467145059	2.34E-07	6.32E-06
ENSMMUG000000062538	adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]	1.189456579	0.001461226	0.009035526
ENSMMUG000000021173	nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]	0.826177397	0.001419027	0.008822114
ENSMMUG000000021169	translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]	1.197485353	2.53E-05	0.000318566
ENSMMUG000000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	1.149577478	8.20E-12	1.30E-09

ENSMMUG00000013648	potassium two pore domain channel subfamily K member 16 [Source:VGNC Symbol;Acc:VGNC:73827]	3.324398127	0.00610914	0.027936937
ENSMMUG00000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	2.780249806	5.96E-08	1.97E-06
ENSMMUG00000023381	dynein axonemal heavy chain 8 [Source:VGNC Symbol;Acc:VGNC:71943]	0.644411972	3.80E-05	0.000445262
ENSMMUG00000048502	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.274065122	0.000402635	0.003118925
ENSMMUG00000062055	glyoxalase I [Source:NCBI gene;Acc:719518]	0.962947333	1.35E-09	8.90E-08
ENSMMUG00000063198		2.904744981	0.001299249	0.008187029
ENSMMUG00000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	0.997304372	9.59E-05	0.000962154
ENSMMUG00000023823	Y RNA [Source:RFAM;Acc:RF00019]	4.242169476	0.009459413	0.039584662
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	4.956247641	1.57E-05	0.000212857
ENSMMUG00000063472		5.243707003	3.86E-05	0.000448967
ENSMMUG00000004287	death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]	1.013165873	0.004460262	0.021800139
ENSMMUG00000003864	VPS52 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:78551]	0.875088878	0.000144313	0.001345471
ENSMMUG00000003858	retinoid X receptor beta [Source:VGNC Symbol;Acc:VGNC:76952]	0.900741592	0.005019351	0.023939009
ENSMMUG00000023138	bromodomain containing 2 [Source:VGNC Symbol;Acc:VGNC:83422]	1.805265584	0.009172746	0.038633659
ENSMMUG00000022626	major histocompatibility complex, class II, DM alpha [Source:NCBI gene;Acc:717870]	1.730071299	0.004880525	0.023405643
ENSMMUG00000006828	valyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:78755]	2.056836187	0.010263471	0.042149259
ENSMMUG00000009702	mutS homolog 5 [Source:NCBI gene;Acc:715494]	1.878160771	0.006484408	0.029252934
ENSMMUG00000058534		3.162866287	5.04E-07	1.21E-05
ENSMMUG00000015693	lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]	2.452569104	0.000169922	0.001532598
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	2.436098907	3.87E-08	1.38E-06
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	2.412050414	1.99E-10	1.90E-08
ENSMMUG00000054159	lymphocyte antigen 6 family member G5C [Source:VGNC Symbol;Acc:VGNC:83431]	3.044397866	0.000320606	0.002575543
ENSMMUG00000005294	casein kinase 2 beta [Source:NCBI gene;Acc:715807]	2.563048117	2.97E-06	5.29E-05
ENSMMUG00000005293	G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]	2.766144604	3.43E-06	5.98E-05
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	2.048739329	1.26E-08	5.52E-07
ENSMMUG00000005303	apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]	2.883297313	6.50E-05	0.000694869
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	2.004872666	6.09E-08	1.99E-06
ENSMMUG00000025918	small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]	2.750835382	1.46E-05	0.000199587
ENSMMUG00000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	1.829605578	7.53E-08	2.41E-06
ENSMMUG00000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	2.100014263	6.05E-07	1.42E-05
ENSMMUG00000052422	ATPase H+ transporting V1 subunit G2 [Source:NCBI gene;Acc:715331]	4.291982076	0.010173073	0.041871925
ENSMMUG00000008839	DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]	1.791453654	0.010438844	0.042560378
ENSMMUG00000062264		1.412649257	0.010380503	0.042400013

ENSMMUG00000037625		1.400050062	0.001954395	0.011390094
ENSMMUG00000053561		4.460056689	7.86E-05	0.000817053
ENSMMUG00000029883	olfactory receptor, family 2, subfamily J, member 3 [Source:NCBI gene;Acc:708943]	4.095458434	9.77E-06	0.00014128
ENSMMUG00000059442		3.305726983	5.48E-05	0.000601309
ENSMMUG00000005415	olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]	3.067929611	0.000211944	0.001847552
ENSMMUG00000004377	olfactory receptor, family 2, subfamily W, member 1 [Source:NCBI gene;Acc:708515]	4.19206824	0.011589169	0.046150867
ENSMMUG00000004617	glutathione peroxidase 6 [Source:VGNC Symbol;Acc:VGNC:73154]	1.241375556	0.002733848	0.014796684
ENSMMUG00000060483		1.270663871	4.32E-06	7.19E-05
ENSMMUG00000012396	zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]	0.819239889	0.001448115	0.008964393
ENSMMUG00000011675	zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]	1.016727925	5.99E-06	9.43E-05
ENSMMUG00000005964	CMP-N-acetylneuraminic acid hydroxylase [Source:NCBI gene;Acc:574186]	1.662625784	1.96E-05	0.000256983
ENSMMUG00000049021	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.334458823	0.0001552	0.001424509
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	1.310838693	3.35E-06	5.88E-05
ENSMMUG00000029939	acyl-CoA thioesterase 13 [Source:VGNC Symbol;Acc:VGNC:69487]	2.960195044	0.006313875	0.028662569
ENSMMUG00000051037		2.153247714	0.006200266	0.028265217
ENSMMUG00000052442		0.742189218	0.009186534	0.038659351
ENSMMUG00000062089	ring finger protein 144B [Source:NCBI gene;Acc:705099]	1.180853632	0.005708953	0.026461381
ENSMMUG00000052333		0.765856973	0.0031251	0.016488866
ENSMMUG00000052891		1.72148266	0.000995299	0.006566364
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	1.739932825	4.09E-06	6.85E-05
ENSMMUG00000020122	RAN binding protein 9 [Source:VGNC Symbol;Acc:VGNC:76475]	-0.77423923	0.002783039	0.015012945
ENSMMUG00000004347	androgen dependent TFPI regulating protein [Source:VGNC Symbol;Acc:VGNC:69661]	1.610982871	3.84E-05	0.000448418
ENSMMUG00000058800		1.101169154	0.000484482	0.00361513
ENSMMUG00000043161	endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]	-1.46903795	0.000136798	0.001290205
ENSMMUG00000049313	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.801308678	0.003753299	0.019031349
ENSMMUG00000050417		1.448676668	1.02E-08	4.67E-07
ENSMMUG00000018787	PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]	1.252383315	1.12E-05	0.000159877
ENSMMUG00000061586	chromosome 4 C6orf52 homolog [Source:NCBI gene;Acc:702114]	0.984539623	0.001480703	0.009135684
ENSMMUG00000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	0.997583926	0.000366453	0.002890292
ENSMMUG00000060973		0.816183794	0.003298304	0.01722801
ENSMMUG00000055919		2.012964865	0.009217587	0.038747232
ENSMMUG00000023558	exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]	2.075904883	6.74E-05	0.000716812
ENSMMUG00000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	1.196252383	4.10E-05	0.000471215

ENSMMUG00000065031		0.851460837	0.005658004	0.026285197
ENSMMUG00000019483	putative golgin subfamily A member 8D [Source:NCBI gene;Acc:100430266]	3.934901767	0.001291577	0.008146582
ENSMMUG00000055117		2.196230459	2.91E-05	0.000357438
ENSMMUG00000005270	ryanodine receptor 3 [Source:NCBI gene;Acc:694996]	0.482124604	0.002403203	0.013311777
ENSMMUG00000018332	family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]	1.231641423	0.000397525	0.003085808
ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	1.323567357	2.34E-06	4.33E-05
ENSMMUG00000020535	phospholipase C beta 2 [Source:VGNC Symbol;Acc:VGNC:76164]	1.446353555	6.32E-05	0.000677179
ENSMMUG00000012408	dispatched RND transporter family member 2 [Source:VGNC Symbol;Acc:VGNC:71676]	1.182238659	3.73E-05	0.000439546
ENSMMUG00000058981	kinetochore localized astrin (SPAG5) binding protein [Source:NCBI gene;Acc:702753]	0.963976802	0.000142179	0.001328432
ENSMMUG00000043229	carbohydrate sulfotransferase 14 [Source:NCBI gene;Acc:703115]	1.200268623	0.005708596	0.026461381
ENSMMUG00000001482	coiled-coil domain containing 32 [Source:VGNC Symbol;Acc:VGNC:70891]	1.597259444	6.57E-06	0.000101468
ENSMMUG00000001483	RNA pseudouridine synthase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77091]	1.620326401	0.000201093	0.001768367
ENSMMUG00000048910	kinetochore scaffold 1 [Source:VGNC Symbol;Acc:VGNC:84366]	0.669729682	0.002589592	0.014139476
ENSMMUG00000010168	MAX dimerization protein MGA [Source:VGNC Symbol;Acc:VGNC:84390]	0.396344665	0.00700743	0.031190499
ENSMMUG00000001532	glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]	0.739870646	0.000109794	0.001075286
ENSMMUG00000001534	calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]	0.743183308	0.008877997	0.037574756
ENSMMUG00000064341	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.146634466	0.009512691	0.039756446
ENSMMUG00000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	-0.84089493	3.55E-05	0.000422498
ENSMMUG00000022251	transglutaminase 7 [Source:VGNC Symbol;Acc:VGNC:79880]	0.661761496	0.001408161	0.008771333
ENSMMUG00000055498	leucine carboxyl methyltransferase 2 [Source:NCBI gene;Acc:710047]	0.618512948	2.95E-05	0.000361604
ENSMMUG00000017067	adenosine deaminase like [Source:VGNC Symbol;Acc:VGNC:69555]	0.817616181	0.000237394	0.002023293
ENSMMUG00000017070	zinc finger and SCAN domain containing 29 [Source:VGNC Symbol;Acc:VGNC:79633]	0.890233055	0.000287714	0.002360892
ENSMMUG00000017076	tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]	1.131826057	4.67E-05	0.000526683
ENSMMUG00000017078	tumor protein p53 binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78628]	0.587618134	0.007624149	0.033353408
ENSMMUG00000007860	diphosphoinositol pentakisphosphate kinase 1 [Source:VGNC Symbol;Acc:VGNC:76127]	1.229470449	0.000908033	0.006087567
ENSMMUG00000016742	CTD small phosphatase like 2 [Source:VGNC Symbol;Acc:VGNC:71593]	0.512677076	0.002133074	0.012183909
ENSMMUG00000014291	SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]	1.280190475	0.000161489	0.00146773
ENSMMUG00000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	2.018754358	7.39E-07	1.67E-05
ENSMMUG00000049265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.828547213	0.001816534	0.01075368
ENSMMUG00000062254		1.866734257	3.83E-05	0.000448023
ENSMMUG00000013496	DTW domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72017]	3.558951551	0.006658373	0.029882262
ENSMMUG00000056522		2.32956842	0.000203751	0.001785701
ENSMMUG00000050608		2.33142411	2.60E-09	1.52E-07

ENSMMUG0000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	2.1209276	4.00E-09	2.14E-07
ENSMMUG00000057283		2.152272977	5.89E-06	9.34E-05
ENSMMUG0000002879	GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]	-0.87599622	0.000949891	0.006316096
ENSMMUG00000060278	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-	-
ENSMMUG0000008575	transient receptor potential cation channel subfamily M member 7 [Source:VGNC Symbol;Acc:VGNC:79106]	1.427241539	0.012743279	0.04950391
ENSMMUG0000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	-0.26917576	0.003366059	0.017462258
ENSMMUG00000017437		2.720507446	1.78E-10	1.74E-08
ENSMMUG00000017432	LysM domain containing 2 [Source:NCBI gene;Acc:694916]	-	-	-
ENSMMUG0000002345	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	1.253179098	0.010992533	0.044262814
ENSMMUG00000017374	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	0.602829029	0.002204114	0.012469205
ENSMMUG00000017374	G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]	0.927707366	9.16E-10	6.58E-08
ENSMMUG0000007504	myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]	-	-	-
ENSMMUG0000001423	family with sequence similarity 214 member A [Source:VGNC Symbol;Acc:VGNC:72354]	2.768373148	0.000152307	0.001404901
ENSMMUG00000010798	cell cycle progression 1 [Source:VGNC Symbol;Acc:VGNC:70844]	-	-	-
ENSMMUG0000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	3.740761403	0.000115364	0.001118048
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	-	-	-
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	0.492348565	0.006290939	0.028588383
ENSMMUG00000012690	myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]	0.612541469	0.00089707	0.006038974
ENSMMUG00000022200	SAFB like transcription modulator [Source:VGNC Symbol;Acc:VGNC:77748]	-	-	-
ENSMMUG00000063524		1.733218383	7.05E-07	1.61E-05
ENSMMUG00000018426	glucosaminyl (N-acetyl) transferase 3, mucin type [Source:VGNC Symbol;Acc:VGNC:84342]	1.337587158	6.15E-06	9.61E-05
ENSMMUG00000020348	BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]	-	-	-
ENSMMUG00000060717	C2 calcium dependent domain containing 4A [Source:NCBI gene;Acc:704354]	0.882432567	0.000126935	0.001212828
ENSMMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]	4.659497507	2.10E-05	0.000272409
ENSMMUG00000012117	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:VGNC Symbol;Acc:VGNC:73364]	-	-	-
ENSMMUG00000049375		0.484733908	0.003703704	0.018863953
ENSMMUG00000018177	death associated protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:71733]	-	-	-
ENSMMUG00000021124	casein kinase 1 gamma 1 [Source:VGNC Symbol;Acc:VGNC:81383]	0.647969305	0.000241364	0.00205175
ENSMMUG00000006297	programmed cell death 7 [Source:NCBI gene;Acc:708758]	-3.90101434	0.003119575	0.016466394
ENSMMUG00000005749	poly(ADP-ribose) polymerase family member 16 [Source:VGNC Symbol;Acc:VGNC:84416]	-	-	-
ENSMMUG00000054184	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.911051731	4.37E-05	0.000498483
ENSMMUG00000008006	RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]	0.797305711	0.005684605	0.026395562
		1.035050984	0.000238446	0.002029602
		0.336183296	0.003413323	0.017651561
		0.604583713	0.000351895	0.002799232
		1.011135796	0.001702669	0.010219156
		0.486179393	0.000382388	0.002989945
		0.699410781	0.002088841	0.011987766
		1.302971836	0.0001339	0.001270241
		0.925887542	0.005310094	0.025022856
		0.949518543	1.63E-05	0.000219569

ENSMMUG0000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	0.793000102	0.001246039	0.007909216
ENSMMUG0000003693	DIS3 like exosome 3'-5' exoribonuclease [Source:VGNC Symbol;Acc:VGNC:71796]	-3.43501147	0.003563774	0.018262588
ENSMMUG0000003695	TIMELESS interacting protein [Source:VGNC Symbol;Acc:VGNC:79873]	1.401447629	0.00383691	0.019372223
ENSMMUG00000063378		0.497311902	0.007638386	0.033393226
ENSMMUG0000004026	integrin subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73774]	0.475658419	0.004142115	0.020538448
ENSMMUG0000006230	NADPH oxidase 5 [Source:VGNC Symbol;Acc:VGNC:82198]	0.493941278	0.007968064	0.034578791
ENSMMUG00000052263		-	-	-
ENSMMUG00000052263	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	1.050933861	0.000732961	0.005127967
ENSMMUG0000007570		1.200767594	0.002647063	0.014410927
ENSMMUG0000006490	ariadne RBR E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:84308]	-	-	-
ENSMMUG00000057906		0.664188422	0.01076752	0.043504928
ENSMMUG00000063495		0.56790428	0.000138482	0.001300429
ENSMMUG0000003231	coiled-coil domain containing 33 [Source:VGNC Symbol;Acc:VGNC:70876]	0.968210668	6.35E-05	0.000680784
ENSMMUG00000011071	enhancer of mRNA decapping 3 [Source:VGNC Symbol;Acc:VGNC:72114]	-	-	-
ENSMMUG00000022481	cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]	4.149389418	0.002561363	0.014008869
ENSMMUG00000015267	C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]	1.047412598	0.000379691	0.002974857
ENSMMUG00000016104	chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]	0.595295672	0.004298723	0.021113745
ENSMMUG00000053989		0.935342319	0.000144176	0.001345164
ENSMMUG00000011047	S-phase cyclin A associated protein in the ER [Source:VGNC Symbol;Acc:VGNC:77006]	0.66575539	0.00076563	0.005299515
ENSMMUG00000053250		0.666099846	0.000601529	0.004351219
ENSMMUG00000010171	proline-serine-threonine phosphatase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:76459]	-	-	-
ENSMMUG00000042378	pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]	0.867112531	0.002932685	0.015681483
ENSMMUG00000058749	golgin subfamily A member 6C [Source:NCBI gene;Acc:716687]	-	-	-
ENSMMUG00000045680	iron responsive element binding protein 2 [Source:VGNC Symbol;Acc:VGNC:84360]	1.163785713	0.002084695	0.011970659
ENSMMUG0000007541	cholinergic receptor nicotinic beta 4 subunit [Source:NCBI gene;Acc:106996685]	-	-	-
ENSMMUG00000059589		0.924836638	1.56E-06	3.06E-05
ENSMMUG00000056992	zinc finger AN1-type containing 6 [Source:NCBI gene;Acc:717543]	1.049015854	1.62E-05	0.0002189
ENSMMUG0000009361	fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]	-	-	-
ENSMMUG00000054653	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.776302579	0.008452075	0.036172322
ENSMMUG00000011564	transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]	1.365287662	0.006613359	0.02973154
ENSMMUG0000009087	HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]	0.60094553	0.012524862	0.048918426
ENSMMUG0000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]	1.850627049	0.001582418	0.009645286
ENSMMUG00000062559		1.49958173	0.001021144	0.006700805
ENSMMUG00000011328	cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]	2.212066329	3.91E-07	9.75E-06
		3.203960101	0.012150007	0.04781157
		3.915053585	0.003922859	0.019683915
		-	-	-
		1.392901234	1.43E-06	2.88E-05
		-1.95494954	1.78E-07	5.01E-06
		-	-	-
		1.696161041	0.001361017	0.008514379
		1.07443986	0.005804953	0.026847136

ENSMMUG00000019838	phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]	0.997934893	0.000252237	0.002117883
ENSMMUG00000056737		1.245702172	0.0119626	0.047247365
ENSMMUG00000049563		1.716127619	8.12E-06	0.000121231
ENSMMUG00000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	1.020404174	9.02E-09	4.23E-07
ENSMMUG00000010432	zinc finger protein 592 [Source:VGNC Symbol;Acc:VGNC:79762]	0.349021259	0.009668568	0.040278473
ENSMMUG00000001386	neurotrophic receptor tyrosine kinase 3 [Source:VGNC Symbol;Acc:VGNC:75542]	1.271839691	0.002197466	0.012447334
ENSMMUG00000005758	DET1 partner of COP1 E3 ubiquitin ligase [Source:NCBI gene;Acc:697994]	1.064853033	0.001171601	0.007532301
ENSMMUG00000014414	abhydrolase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69463]	0.987187532	0.005355674	0.025210239
ENSMMUG00000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]	0.836062522	0.012119449	0.047765319
ENSMMUG00000056869		0.654827759	1.66E-05	0.000221998
ENSMMUG00000022678	Rh family C glycoprotein [Source:VGNC Symbol;Acc:VGNC:84427]	0.729132833	0.010639085	0.043106523
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	1.141780851	3.35E-08	1.23E-06
ENSMMUG00000010586	mesoderm posterior bHLH transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:74618]	1.558516117	0.001242893	0.007904679
ENSMMUG00000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	1.152044553	5.11E-08	1.74E-06
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	1.157558639	3.28E-08	1.21E-06
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	1.119888888	1.80E-07	5.04E-06
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	2.188001516	6.17E-09	3.07E-07
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	2.361343467	1.24E-09	8.38E-08
ENSMMUG00000029504	GDP-D-glucose phosphorylase 1 [Source:NCBI gene;Acc:701954]	0.639613207	0.012828665	0.049731629
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	1.610116072	0.005203941	0.024611802
ENSMMUG00000005108	RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]	1.357268236	0.012138651	0.04781157
ENSMMUG00000063322		1.286263097	7.01E-05	0.000741762
ENSMMUG00000060063		1.270950777	0.000135446	0.0012821
ENSMMUG00000006659	aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]	1.182388521	0.012692223	0.049408877
ENSMMUG00000053848		2.037015721	0.008488569	0.036304614
ENSMMUG00000058162		2.634240655	0.008846307	0.037473759
ENSMMUG00000056509	ribonuclease, RNase A family, 3 [Source:NCBI gene;Acc:100425327]	0.949301336	0.000754578	0.005239747
ENSMMUG00000006457	Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]	2.693356866	0.000289272	0.002371802
ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]	2.763118995	1.09E-08	4.88E-07
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	1.828678944	2.20E-05	0.0002826
ENSMMUG00000014997	spalt like transcription factor 2 [Source:NCBI gene;Acc:708367]	1.228618612	0.010723674	0.043359972
ENSMMUG00000062974		1.666177128	6.64E-08	2.15E-06

ENSMMUG00000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	-	1.511064614	0.003706005	0.01886509
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	-	1.397763864	0.000941846	0.006269015
ENSMMUG00000056910		-	0.887201612	0.00727894	0.032145972
ENSMMUG00000042599	T cell receptor alpha variable 20 [Source:HGNC Symbol;Acc:HGNC:12117]	-	3.207449017	9.73E-08	2.94E-06
ENSMMUG00000057791		-	1.552608477	0.000871906	0.005890912
ENSMMUG00000014748	solute carrier family 22 member 17 [Source:VGNC Symbol;Acc:VGNC:77560]	-	1.942758504	0.006618349	0.029743694
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	-	0.662168579	0.006781324	0.030335482
ENSMMUG00000029420		-	1.883258791	0.000557006	0.004088272
ENSMMUG00000014766	neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]	-	1.013390729	0.003325443	0.017326289
ENSMMUG00000045970	thiamine triphosphatase [Source:NCBI gene;Acc:714403]	-	1.161236071	1.72E-06	3.32E-05
ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	-	1.493378797	3.38E-06	5.92E-05
ENSMMUG00000059196		-	0.545100046	0.009176685	0.038637735
ENSMMUG00000012473	proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]	-	1.747464844	0.011683438	0.046440951
ENSMMUG00000040817	interferon regulatory factor 9 [Source:VGNC Symbol;Acc:VGNC:84361]	-	1.590768412	0.012417029	0.048584802
ENSMMUG00000003120	HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]	-	1.171508302	9.08E-05	0.000924401
ENSMMUG00000056906		-	0.995799272	1.87E-05	0.000246738
ENSMMUG00000016487	Ral GTPase activating protein catalytic alpha subunit 1 [Source:VGNC Symbol;Acc:VGNC:76504]	-	1.211852867	0.009443645	0.039546447
ENSMMUG00000052781		-	0.415685651	0.002950274	0.015758218
ENSMMUG00000003913	DNA polymerase epsilon 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76204]	-	2.995830507	5.44E-12	9.44E-10
ENSMMUG00000055903	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-1.92404682	0.005603766	0.026094731
ENSMMUG00000049543		-	1.596394262	0.000186527	0.001659354
ENSMMUG00000055012		-	2.002483409	0.001669606	0.010071845
ENSMMUG00000059134		-	2.096481404	2.00E-06	3.79E-05
ENSMMUG00000002615	distal membrane arm assembly complex 2 like [Source:VGNC Symbol;Acc:VGNC:84333]	-	1.561482624	2.29E-05	0.000292187
ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	-	3.767602992	7.27E-13	1.60E-10
ENSMMUG00000056844		-	1.875204288	0.00057491	0.004198359
ENSMMUG00000018274	FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]	-	0.58746288	0.00765961	0.033441051
ENSMMUG00000000023	prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]	-	0.997656724	0.005600862	0.026090547
ENSMMUG00000006997	thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]	-	1.128381035	1.74E-07	4.90E-06
ENSMMUG00000052273	glia maturation factor beta [Source:NCBI gene;Acc:696440]	-	1.600868679	0.008217581	0.035328171
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	-	1.770314104	1.16E-13	3.19E-11
ENSMMUG00000054112		-	0.949624781	5.87E-05	0.000636184
ENSMMUG00000003567	DLG associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71850]	-	0.912917019	0.009704946	0.040339574
ENSMMUG00000061576		-	1.997705142	3.96E-05	0.000458102
ENSMMUG00000053489		-	1.078318506	0.011012796	0.044303254

ENSMMUG00000018279	adaptor related protein complex 5 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69868]	0.666074759	0.000233883	0.002002558
ENSMMUG00000011965	coiled-coil domain containing 175 [Source:VGNC Symbol;Acc:VGNC:84317]	1.451460612	0.007999978	0.034694134
ENSMMUG00000011966	reticulon 1 [Source:NCBI gene;Acc:619184]	1.661599976	0.005514772	0.025791126
ENSMMUG00000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	1.387715586	5.24E-06	8.49E-05
ENSMMUG00000002540	dehydrogenase/reductase 7 [Source:VGNC Symbol;Acc:VGNC:71690]	0.582546001	0.000704596	0.004966924
ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.449443037	6.43E-10	5.01E-08
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	0.834889799	6.92E-05	0.000733886
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	0.55198284	0.00706193	0.031368667
ENSMMUG00000019170	pleckstrin homology and RhoGEF domain containing G3 [Source:VGNC Symbol;Acc:VGNC:76082]	3.750809878	4.78E-05	0.000537538
ENSMMUG00000019172	spectrin beta, erythrocytic [Source:VGNC Symbol;Acc:VGNC:77870]	1.315117565	5.71E-05	0.000622583
ENSMMUG00000006768	coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]	1.883208814	0.003190299	0.016771635
ENSMMUG00000009520	gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]	2.345010985	6.76E-07	1.56E-05
ENSMMUG00000021418	ATPase H+ transporting V1 subunit D [Source:VGNC Symbol;Acc:VGNC:70060]	1.90835143	5.55E-05	0.000607887
ENSMMUG000000057386		1.983328636	0.008621387	0.036739766
ENSMMUG00000021327	phosphatidylinositol glycan anchor biosynthesis class H [Source:VGNC Symbol;Acc:VGNC:75987]	1.926310904	0.00011642	0.001124935
ENSMMUG00000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	1.983966481	2.77E-07	7.21E-06
ENSMMUG00000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	1.894089658	2.94E-06	5.25E-05
ENSMMUG00000015871	zinc finger FYVE-type containing 26 [Source:VGNC Symbol;Acc:VGNC:79283]	0.888494166	0.012409912	0.048584802
ENSMMUG000000063892		1.416012398	0.003224998	0.016913033
ENSMMUG000000060601		1.124063485	0.005707882	0.026461381
ENSMMUG000000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	1.218502947	0.001028254	0.006726624
ENSMMUG00000022407	serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]	1.067213657	0.000222467	0.001927648
ENSMMUG00000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	1.134620089	4.88E-05	0.000546518
ENSMMUG000000052692	disintegrin and metalloproteinase domain-containing protein 20-like [Source:NCBI gene;Acc:114679594]	0.923030976	0.006589527	0.029634645
ENSMMUG00000019470	pecanex 1 [Source:VGNC Symbol;Acc:VGNC:75655]	0.643562116	0.009591456	0.040002287
ENSMMUG00000020067	signal induced proliferation associated 1 like 1 [Source:VGNC Symbol;Acc:VGNC:77284]	0.827343206	0.000684298	0.004842212
ENSMMUG00000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]	1.232676172	0.000656908	0.004686638
ENSMMUG00000010173	presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]	1.752800169	0.000153951	0.001416042
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]	1.421324498	2.84E-07	7.38E-06
ENSMMUG000000053481		1.446775942	2.04E-05	0.000265845
ENSMMUG000000049894		1.715355085	0.000772057	0.005324167
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]	1.451275369	2.69E-09	1.56E-07
ENSMMUG00000004910	dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]	1.436152431	0.000106444	0.001047214

ENSMMUG0000004913	mitotic deacetylase associated SANT domain protein [Source:VGNC Symbol;Acc:VGNC:72073]	0.933574962	0.000120278	0.001157053
ENSMMUG00000029273	FAM161 centrosomal protein B [Source:NCBI gene;Acc:697910] vertebrae development associated [Source:VGNC Symbol;Acc:VGNC:79236]	0.718271101	0.003434679	0.017733795
ENSMMUG00000012383		1.414286238	0.003999005	0.02002736
ENSMMUG00000056376		1.785156278	5.71E-06	9.11E-05
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209] transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]	0.956411398	7.26E-10	5.49E-08
ENSMMUG00000015168	Fos proto-oncogene, AP-1 transcription factor subunit [Source:VGNC Symbol;Acc:VGNC:84340]	-0.53099058	0.007855509	0.034158726
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]	1.105990874	0.000463001	0.003486205
ENSMMUG00000012065	tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116] estrogen related receptor beta [Source:VGNC Symbol;Acc:VGNC:72434]	1.462590309	4.14E-09	2.20E-07
ENSMMUG00000016773		0.571333839	0.012160913	0.047827284
ENSMMUG00000057021	CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679] zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]	1.149887809	0.001016346	0.006679432
ENSMMUG00000007561		-1.5016452	2.91E-06	5.21E-05
ENSMMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867] G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]	0.781955749	0.000457236	0.00345343
ENSMMUG00000017260	zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]	1.007719047	0.000152577	0.001406388
ENSMMUG00000004603		0.473245551	0.000826978	0.005628296
ENSMMUG00000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067] tyrosyl-DNA phosphodiesterase 1 [Source:VGNC Symbol;Acc:VGNC:79164]	0.876075988	7.50E-07	1.69E-05
ENSMMUG00000004460	protein phosphatase 4 regulatory subunit 3A [Source:VGNC Symbol;Acc:VGNC:76290]	1.208003648	0.006213585	0.028306091
ENSMMUG00000014945		0.643314028	0.003480583	0.017910513
ENSMMUG00000020751	ataxin 3 [Source:NCBI gene;Acc:720515] NADH:ubiquinone oxidoreductase subunit B1 [Source:NCBI gene;Acc:697745]	1.099733122	0.000581091	0.004233991
ENSMMUG00000022428	cleavage and polyadenylation specific factor 2 [Source:VGNC Symbol;Acc:VGNC:71473]	1.47632814	0.00025847	0.002157673
ENSMMUG00000000699	ankyrin repeat and SOCS box containing 2 [Source:VGNC Symbol;Acc:VGNC:69840]	1.350085374	0.000196405	0.001731825
ENSMMUG00000012400		1.229077811	0.002601345	0.01419769
ENSMMUG00000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241] serpin family A member 12 [Source:VGNC Symbol;Acc:VGNC:77266]	2.062364111	8.92E-07	1.95E-05
ENSMMUG00000020586		4.200699363	0.000557655	0.004089886
ENSMMUG00000000681	calmin [Source:VGNC Symbol;Acc:VGNC:71232]	0.784775471	4.86E-05	0.000544578
ENSMMUG000000051552		2.028751819	4.75E-08	1.63E-06
ENSMMUG000000061892		1.554728805	3.44E-05	0.000411806
ENSMMUG000000049437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.048742607	0.011275874	0.045166006
ENSMMUG000000029197	YY1 transcription factor [Source:NCBI gene;Acc:717370]	1.099400838	0.000698192	0.004927124
ENSMMUG000000059881	tryptophanyl-tRNA synthetase 1 [Source:NCBI gene;Acc:706855]	1.603776509	0.000322239	0.002583873
ENSMMUG00000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	2.572842586	4.81E-10	3.96E-08

ENSMMUG00000060616	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.463356033	0.009727317	0.040419642
ENSMMUG00000003483	cyclin dependent kinase 2 interacting protein [Source:VGNC Symbol;Acc:VGNC:71326]	-1.1711606	0.000119403	0.001149481
ENSMMUG00000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	1.569498015	0.001306775	0.008230469
ENSMMUG00000005845	REST corepressor 1 [Source:VGNC Symbol;Acc:VGNC:76752]	0.864074478	0.003421214	0.017671289
ENSMMUG00000011751		1.797482249	0.002464358	0.013581121
ENSMMUG00000050495		1.845465718	0.00806702	0.034891805
ENSMMUG00000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	1.511880491	1.88E-08	7.91E-07
ENSMMUG00000049145	creatine kinase B [Source:NCBI gene;Acc:711167]	2.067629483	1.43E-08	6.20E-07
ENSMMUG00000018123	protein phosphatase 1 regulatory subunit 13B [Source:VGNC Symbol;Acc:VGNC:76259]	0.412427818	0.000236333	0.002018221
ENSMMUG00000052518	SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]	1.845827577	0.003778356	0.019128571
ENSMMUG00000001276	jagged canonical Notch ligand 2 [Source:VGNC Symbol;Acc:VGNC:73809]	1.380664605	0.008574234	0.036586776
ENSMMUG00000065019	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.572962679	0.00722029	0.031919473
ENSMMUG00000022939	phosphofurin acidic cluster sorting protein 2 [Source:VGNC Symbol;Acc:VGNC:75671]	1.345941088	0.006284998	0.02857137
ENSMMUG00000007159	tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]	1.824932631	4.65E-05	0.000525751
ENSMMUG00000015202		2.579747238	0.00687791	0.030698041
ENSMMUG00000040771		-2.0507455	0.001211538	0.00774313
ENSMMUG00000059525		1.355380028	0.004344718	0.021299435
ENSMMUG00000055207		2.962752243	0.000227794	0.001960111
ENSMMUG00000060892		1.868227386	1.40E-05	0.000194455
ENSMMUG00000052929		3.120341151	0.001068413	0.006958329
ENSMMUG00000052535		4.590029726	1.20E-06	2.46E-05
ENSMMUG00000000443	arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]	-0.88962405	0.001024989	0.006715871
ENSMMUG00000017378	steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]	1.901979248	0.001754278	0.010451734
ENSMMUG00000010252	FERM and PDZ domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72802]	0.986284691	0.000576535	0.004205502
ENSMMUG00000003482	glycine receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:73075]	1.281709729	0.000901194	0.006057329
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	1.941499999	5.15E-05	0.000572039
ENSMMUG00000058700	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.800534814	0.000741489	0.005179272
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.103883168	5.94E-06	9.36E-05
ENSMMUG00000012894	NHS actin remodeling regulator [Source:VGNC Symbol;Acc:VGNC:75348]	3.807540671	9.29E-08	2.83E-06
ENSMMUG00000005084	Scm polycomb group protein like 2 [Source:VGNC Symbol;Acc:VGNC:76979]	0.852567684	0.012217139	0.048032661
ENSMMUG00000020515	adhesion G protein-coupled receptor G2 [Source:VGNC Symbol;Acc:VGNC:69802]	2.164430727	9.06E-10	6.55E-08

ENSMMUG0000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	0.61379137	0.011836002	0.04692901
ENSMMUG00000005959	glycerol kinase [Source:NCBI gene;Acc:707531]	0.934850925	0.006529473	0.029446022
ENSMMUG000000057804		-	-	-
ENSMMUG000000049666		2.590443456	0.00112667	0.007283036
ENSMMUG000000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	0.915017579	0.00010255	0.001015046
ENSMMUG000000019768	suppressor of variegation 3-9 homolog 1 [Source:VGNC Symbol;Acc:VGNC:78061]	1.36836071	1.93E-08	8.07E-07
ENSMMUG000000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	-	-	-
ENSMMUG00000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	0.763029906	0.011471931	0.045768077
ENSMMUG000000023024	prickle planar cell polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:76361]	1.032330239	8.28E-08	2.59E-06
ENSMMUG000000023025	synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]	0.989175929	9.18E-06	0.000134079
ENSMMUG00000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	1.260771036	0.000905285	0.006075404
ENSMMUG00000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	1.091622101	0.000710302	0.004997633
ENSMMUG000000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	1.032944792	9.88E-05	0.000988444
ENSMMUG000000060311	G antigen 10-like [Source:NCBI gene;Acc:114674954]	1.177723322	5.95E-08	1.97E-06
ENSMMUG000000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.869193272	2.52E-08	9.86E-07
ENSMMUG00000007939	A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]	1.392742716	5.08E-07	1.22E-05
ENSMMUG000000023060	cyclin B3 [Source:NCBI gene;Acc:694534]	1.613590032	1.51E-07	4.33E-06
ENSMMUG000000045093	melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]	0.774763177	0.000902593	0.006060466
ENSMMUG000000020202	X antigen family member 1-like [Source:NCBI gene;Acc:106996044]	2.00661823	2.11E-05	0.000273147
ENSMMUG000000012073	X antigen family member 5 [Source:NCBI gene;Acc:114669729]	1.911636414	1.32E-07	3.83E-06
ENSMMUG000000046218	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.174845639	7.99E-08	2.51E-06
ENSMMUG000000047741	family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]	-	-	-
ENSMMUG000000059922		1.301998338	0.002253532	0.012699061
ENSMMUG000000051670		-	-	-
ENSMMUG000000054377		1.109262311	0.000220787	0.001915644
ENSMMUG000000061393	OTU deubiquitinase 6A [Source:NCBI gene;Acc:694498]	1.373811238	0.001342249	0.008417207
ENSMMUG000000054817	immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]	0.639158401	0.004295964	0.021108165
ENSMMUG000000013943	glycerophosphodiester phosphodiesterase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72787]	4.663214914	1.21E-05	0.000171264
ENSMMUG00000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	-	-	-
ENSMMUG000000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	1.945438952	2.15E-06	4.03E-05
ENSMMUG000000032427	neuroigin 3 [Source:NCBI gene;Acc:574216]	0.911644182	3.49E-07	8.90E-06
ENSMMUG00000000667	zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]	-	-	-
ENSMMUG000000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]	2.745591816	0.005437026	0.025510084
		-	-	-
		1.061785833	0.012133755	0.047807217
		-1.95729846	8.38E-05	0.000865991
		-	-	-
		2.564574172	8.20E-06	0.000121982
		1.601284046	2.69E-08	1.03E-06
		-	-	-
		1.103891333	0.008417292	0.036038634
		-	-	-
		1.382489488	0.001251766	0.00793009
		-	-	-
		1.308315079	1.20E-05	0.000170759

ENSMMUG00000054148	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	2.383229589	0.004537436	0.022069521
ENSMMUG00000054132		3.226015565	0.005814673	0.026865236
ENSMMUG00000009249	ring finger protein, LIM domain interacting [Source:NCBI gene;Acc:703471]	0.461422853	0.007572352	0.033193802
ENSMMUG00000053505	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.358476727	0.004058528	0.020224222
ENSMMUG00000017660		1.644102962	3.10E-06	5.50E-05
ENSMMUG00000011440	neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]	1.684635465	2.31E-06	4.28E-05
ENSMMUG00000015619	ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]	1.325887104	0.0003343	0.002673987
ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	1.124962783	0.003492692	0.017943311
ENSMMUG00000014407	magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]	0.779310116	0.000406097	0.003135329
ENSMMUG00000015861	cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]	0.869714092	0.002136946	0.012195315
ENSMMUG00000056323	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.366998551	0.011654853	0.04634149
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	0.837513186	0.003666156	0.018706169
ENSMMUG00000052073		0.958400512	0.000473066	0.003540104
ENSMMUG00000054447	T-box transcription factor 22 [Source:NCBI gene;Acc:708338]	1.645907017	4.86E-05	0.000544678
ENSMMUG00000008210	sushi repeat containing protein X-linked 2 [Source:NCBI gene;Acc:700756]	1.132236046	0.002853348	0.015328643
ENSMMUG00000013008	cleavage stimulation factor subunit 2 [Source:VGNC Symbol;Acc:VGNC:71536]	0.979378131	0.012220519	0.048032661
ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]	0.837394165	0.006310927	0.028659188
ENSMMUG00000022281	family with sequence similarity 199, X-linked [Source:NCBI gene;Acc:699523]	2.260325263	0.005618213	0.026138464
ENSMMUG00000060655		2.430871125	0.003839727	0.019378927
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	1.736678061	2.54E-09	1.50E-07
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.900410044	7.05E-11	7.77E-09
ENSMMUG00000022293	FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]	0.756239239	1.54E-05	0.000208856
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	0.859246539	0.00033615	0.002685485
ENSMMUG00000055906	angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]	1.940810883	0.000648463	0.004641669
ENSMMUG00000008785	E74 like ETS transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72208]	1.950999396	6.16E-06	9.62E-05
ENSMMUG00000004198	heparan sulfate 6-O-sulfotransferase 2 [Source:VGNC Symbol;Acc:VGNC:73422]	3.302896496	7.24E-10	5.49E-08
ENSMMUG00000025616		3.414444532	0.002968599	0.015810646
ENSMMUG00000003456	glypican 4 [Source:VGNC Symbol;Acc:VGNC:73118]	0.537786135	0.000405929	0.003135329
ENSMMUG00000007997	PHD finger protein 6 [Source:VGNC Symbol;Acc:VGNC:75825]	0.791403447	0.008929385	0.037779955
ENSMMUG00000022371	myotubularin 1 [Source:VGNC Symbol;Acc:VGNC:75071]	3.487746744	0.009523582	0.039789178
ENSMMUG00000016610	CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]	1.092280746	0.006316513	0.028664537
ENSMMUG00000016929	proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]	2.096502346	0.001968697	0.011446075

ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	0.602980504	0.000635466	0.004563707
ENSMMUG00000062628		1.016008488	0.004501565	0.02191675
ENSMMUG00000039292		1.143148412	4.37E-05	0.000498483
ENSMMUG00000062063	melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544] chondrosarcoma-associated gene 2/3 protein [Source:NCBI gene;Acc:106992305]	1.259311201	4.80E-05	0.000538816
ENSMMUG00000037641		2.162102433	0.012721493	0.049434042
ENSMMUG00000058013	melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103] NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]	1.618994405	2.28E-05	0.000291829
ENSMMUG00000013176		2.047966094	3.24E-05	0.000391428
ENSMMUG00000010897	PNMA family member 3 [Source:VGNC Symbol;Acc:VGNC:76063]	0.750868378	0.000743039	0.005181751
ENSMMUG00000010139	angiopoietin 2 [Source:VGNC Symbol;Acc:VGNC:69811]	5.598357688	2.12E-05	0.000274196
ENSMMUG00000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	2.806200688	2.07E-11	2.74E-09
ENSMMUG00000049842		3.443223075	0.000930715	0.006204449
ENSMMUG00000050140	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.296192463	0.009908365	0.040988614
ENSMMUG00000063525		2.931661037	8.24E-09	3.91E-07
ENSMMUG00000054960		2.098203076	7.22E-05	0.000760774
ENSMMUG00000027220	microRNA 598 [Source:HGNC Symbol;Acc:HGNC:32854] PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	2.884922368	0.009936436	0.041065549
ENSMMUG00000010180		2.447302744	3.58E-06	6.20E-05
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324] tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]	4.333801143	8.07E-07	1.80E-05
ENSMMUG00000007068		2.541975754	0.009269957	0.038929628
ENSMMUG00000022303	solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629] microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	0.706327205	5.77E-08	1.93E-06
ENSMMUG00000001151		1.491512583	3.87E-08	1.38E-06
ENSMMUG00000005920	N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133] integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	2.708055202	0.006174134	0.028158551
ENSMMUG00000011774		1.648000185	1.88E-12	3.65E-10
ENSMMUG00000023361	GDNF family receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:72918]	2.556743582	3.33E-07	8.55E-06
ENSMMUG00000002032	exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]	-1.56098839	3.87E-05	0.000450153
ENSMMUG00000013029	surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113] bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]	1.225917741	0.004612624	0.022393351
ENSMMUG00000013031		1.012315174	0.001733793	0.010353402
ENSMMUG00000023226	RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017] Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.809233715	0.001819839	0.010768349
ENSMMUG00000052651		1.012670513	0.00338622	0.017546283
ENSMMUG00000014438	piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502] phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	1.025920894	0.00112313	0.007263767
ENSMMUG00000018345		1.604442637	6.01E-08	1.98E-06
ENSMMUG00000048076	TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650] charged multivesicular body protein 7 [Source:VGNC Symbol;Acc:VGNC:71122]	1.002729906	0.000738463	0.005160911
ENSMMUG00000016653		1.701158279	0.003622859	0.01853748
ENSMMUG00000016655	R3H domain and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:76551]	3.622065818	4.14E-14	1.28E-11

ENSMMUG00000056749	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.16498747	0.000467235	0.003508577
ENSMMUG00000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	3.038214207	1.20E-11	1.74E-09
ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	1.652158975	4.80E-11	5.67E-09
ENSMMUG00000056605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.07695838	0.001227972	0.007828925
ENSMMUG00000016018	establishment of sister chromatid cohesion N-acetyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:72374]	-2.85729677	0.001407511	0.008771333
ENSMMUG00000022044	scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]	0.676426145	0.006754143	0.030248268
ENSMMUG00000005067	elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]	2.134852575	5.04E-08	1.72E-06
ENSMMUG00000007480	F-box protein 16 [Source:NCBI gene;Acc:106999728]	0.856573672	0.012874657	0.049865333
ENSMMUG00000064702		-		
ENSMMUG0000000459	general transcription factor IIE subunit 2 [Source:VGNC Symbol;Acc:VGNC:73308]	2.022362855	0.006622706	0.029752995
ENSMMUG00000061408		0.51774849	0.000495906	0.003696132
ENSMMUG00000063345		-		
ENSMMUG0000000208	neuregulin 1 [Source:VGNC Symbol;Acc:VGNC:75527]	4.956648326	3.93E-06	6.63E-05
ENSMMUG00000010638	unc-5 netrin receptor D [Source:VGNC Symbol;Acc:VGNC:79158]	5.852951636	5.52E-08	1.85E-06
ENSMMUG00000051162		3.148562972	0.00823901	0.035389615
ENSMMUG0000003591	pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]	2.967273723	0.004792864	0.023087405
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	4.152242831	0.000795882	0.005462031
ENSMMUG00000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]	1.785130813	9.60E-09	4.49E-07
ENSMMUG00000062518		1.996827458	6.06E-06	9.51E-05
ENSMMUG00000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	0.780938376	0.009675881	0.04029511
ENSMMUG0000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	1.278482157	0.000235458	0.002012125
ENSMMUG00000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	1.6333561	1.06E-08	4.78E-07
ENSMMUG00000055121	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.291230468	3.30E-05	0.000397998
ENSMMUG00000059575		1.44998795	6.67E-06	0.000102532
ENSMMUG00000038661		1.20042219	0.002115422	0.012120344
ENSMMUG00000049866		-		
ENSMMUG00000014424	ADP ribosylation factor guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:69834]	2.080553093	2.57E-16	1.34E-13
ENSMMUG00000012513	lactamase beta 2 [Source:VGNC Symbol;Acc:VGNC:74072]	1.720954193	1.57E-07	4.47E-06
ENSMMUG0000007576	EYA transcriptional coactivator and phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:72453]	1.155384395	0.000180501	0.001609048
ENSMMUG00000013193	matrix metalloproteinase 16 [Source:VGNC Symbol;Acc:VGNC:74894]	4.138234046	0.000193565	0.00171259
ENSMMUG0000003878	carboxypeptidase Q [Source:VGNC Symbol;Acc:VGNC:71426]	1.592045192	0.002966231	0.015804509
ENSMMUG00000055454		-		
ENSMMUG00000060329		0.536750879	0.002199383	0.012447858
ENSMMUG00000061917		1.842737666	5.79E-05	0.000629035
		1.350086168	0.002546163	0.013937455
		0.535952397	0.000463719	0.003486205
		0.61596735	0.006431454	0.029104903
		0.868808399	2.02E-05	0.000263849

ENSMMUG00000014210	metadherin [Source:VGNC Symbol;Acc:VGNC:74859]	0.648573988	0.001530451	0.009389903
ENSMMUG00000053292	POP1 homolog, ribonuclease P/MRP subunit [Source:NCBI gene;Acc:705643]	0.531164586	0.002610012	0.014239016
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	-	7.00E-06	0.000106794
ENSMMUG00000004386	sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]	1.089041802	-	-
ENSMMUG000000061687		1.498029322	0.011741429	0.046642954
ENSMMUG000000051088		1.302081524	0.001912721	0.011215894
ENSMMUG00000009958	ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]	-	4.01E-05	0.000463221
ENSMMUG000000051999		1.881118007	-	-
ENSMMUG000000054357		1.377034158	0.000955137	0.006344491
ENSMMUG00000011359	eukaryotic translation initiation factor 3 subunit E [Source:VGNC Symbol;Acc:VGNC:83997]	2.194714978	3.10E-05	0.000377976
ENSMMUG00000062333		-	-	-
ENSMMUG00000024448		3.715209323	0.001590861	0.009677611
ENSMMUG000000058797		0.788369985	0.005658815	0.026285197
ENSMMUG00000021157	TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]	0.763501277	0.000481367	0.003596012
ENSMMUG00000028923	WDYHV motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79503]	-	-	-
ENSMMUG00000057945		3.720904352	0.000727826	0.00510131
ENSMMUG00000054878		0.700880188	0.005169071	0.024491765
ENSMMUG00000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	2.398295595	0.005506703	0.025762656
ENSMMUG00000058106	otoconin 90 [Source:NCBI gene;Acc:100429699]	1.131497295	0.003109473	0.016426402
ENSMMUG00000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]	-	-	-
ENSMMUG00000055934		2.144108946	0.006233419	0.028376566
ENSMMUG00000052421		-	-	-
ENSMMUG00000059617		1.815350083	0.004922289	0.023571169
ENSMMUG0000001432	t-SNARE domain containing 1 [Source:NCBI gene;Acc:701269]	2.32754626	8.77E-07	1.92E-05
ENSMMUG00000062642		1.419010076	1.94E-06	3.69E-05
ENSMMUG00000050257		1.41607271	8.05E-08	2.52E-06
ENSMMUG00000064147	lymphocyte antigen 6 family member L [Source:NCBI gene;Acc:106999990]	1.55185228	0.000246028	0.002084588
ENSMMUG00000061460		-1.1074598	0.008345794	0.035776334
ENSMMUG00000010939	rhopilin Rho GTPase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76779]	-	-	-
ENSMMUG00000058733	zinc finger CCCH-type containing 3 [Source:NCBI gene;Acc:708584]	0.902107699	0.000368505	0.002898977
ENSMMUG00000057609		-	-	-
ENSMMUG00000000388	plectin [Source:VGNC Symbol;Acc:VGNC:76173]	0.677701786	0.008848371	0.037473759
ENSMMUG00000021279	zinc finger MYND-type containing 11 [Source:VGNC Symbol;Acc:VGNC:79060]	1.424244077	3.80E-05	0.000445221
ENSMMUG00000053106		0.920191046	0.010838802	0.043721847
		2.380308309	5.58E-07	1.31E-05
		2.339379202	1.32E-06	2.70E-05
		-	-	-
		0.625665138	0.00366965	0.018716653
		0.381200039	0.004486976	0.021895045
		-0.95218318	0.002782926	0.015012945
		-0.64557926	0.005153984	0.024464494
		0.531079808	0.00135706	0.008493709
		1.4593308	0.001516755	0.009331557

ENSMMUG00000023282	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]	2.069067395	2.39E-07	6.42E-06
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	2.459850959	7.12E-08	2.30E-06
ENSMMUG00000015151	interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]	1.420062565	0.008117418	0.035049841
ENSMMUG00000064980		1.587294284	0.004019751	0.020092573
ENSMMUG00000037449	CUGBP Elav-like family member 2 [Source:NCBI gene;Acc:714291]	1.071231942	6.61E-05	0.000706303
ENSMMUG00000054583		0.887792791	0.011862229	0.04699365
ENSMMUG00000017139	SEC61 translocon alpha 2 subunit [Source:VGNC Symbol;Acc:VGNC:77260]	1.458072237	0.000690844	0.004883219
ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]	0.549706736	0.011202402	0.044899367
ENSMMUG00000017176	DNA cross-link repair 1C [Source:NCBI gene;Acc:697493]	3.699691354	0.008119727	0.035049841
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	0.732555181	0.000174175	0.00156337
ENSMMUG00000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.477991884	0.00216842	0.012326254
ENSMMUG00000023648	protein AF-10 [Source:NCBI gene;Acc:709083]	2.195202307	1.16E-05	0.000165028
ENSMMUG00000002930	G protein-coupled receptor 158 [Source:NCBI gene;Acc:707065]	0.642286848	0.012827216	0.049731629
ENSMMUG00000037243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.433580148	0.000846544	0.005734451
ENSMMUG00000058108	BMP and activin membrane bound inhibitor [Source:NCBI gene;Acc:710152]	1.400261165	0.005377402	0.025294208
ENSMMUG00000024540	5S ribosomal RNA [Source:RFAM;Acc:RF00001]	1.574147327	0.012275009	0.048167099
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]	0.888247549	0.00468662	0.022676405
ENSMMUG00000057199		1.262071819	0.002315382	0.012952197
ENSMMUG00000054392	zinc finger protein 239 [Source:NCBI gene;Acc:717737]	0.975583226	0.012269056	0.04816521
ENSMMUG00000064724		2.394580447	0.003439625	0.017752285
ENSMMUG00000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.907075584	0.00242236	0.013395075
ENSMMUG00000017380	neuregulin 3 [Source:NCBI gene;Acc:699268]	2.608856458	0.004276887	0.021022372
ENSMMUG00000055918		2.985571714	0.000627512	0.004521564
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	1.523437375	3.95E-07	9.84E-06
ENSMMUG00000051972	zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]	3.444662448	5.74E-05	0.000624547
ENSMMUG00000055601		2.191246461	7.21E-06	0.000109738
ENSMMUG00000005514	RNA polymerase III subunit A [Source:VGNC Symbol;Acc:VGNC:76138]	0.908019018	0.003887828	0.019560964
ENSMMUG00000009128	discs large MAGUK scaffold protein 5 [Source:VGNC Symbol;Acc:VGNC:71921]	0.707752875	4.43E-05	0.000504689
ENSMMUG00000060115		0.584793475	0.004070999	0.020233825
ENSMMUG00000013696	myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]	0.93350441	0.005750355	0.026615343
ENSMMUG00000020402	mitochondrial calcium uniporter [Source:VGNC Symbol;Acc:VGNC:74560]	1.674280386	0.000769016	0.005311645
ENSMMUG00000010431	DnaJ heat shock protein family (Hsp40) member B12 [Source:NCBI gene;Acc:721891]	1.880509209	0.004890482	0.023444753
ENSMMUG00000055226	DNA damage inducible transcript 4 [Source:NCBI gene;Acc:715307]	3.875581819	1.99E-05	0.000261182

ENSMMUG0000009479	activating signal cointegrator 1 complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:69896]	-	3.367760026	0.002688079	0.014579298
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	-	0.733827293	0.001791725	0.010626163
ENSMMUG00000050104	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.020371527	0.00077137	0.00532225
ENSMMUG00000053199		-	0.773810739	0.00379876	0.019213087
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	-	0.794580214	0.002127116	0.012155218
ENSMMUG00000007077	APOBEC1 complementation factor [Source:VGNC Symbol;Acc:VGNC:69523]	-	0.523338842	0.003139989	0.016553991
ENSMMUG00000007078	N-acylsphingosine amidohydrolase 2 [Source:NCBI gene;Acc:703913]	-	0.685285331	3.18E-05	0.000385468
ENSMMUG00000014343	lipase family member J [Source:VGNC Symbol;Acc:VGNC:74333]	-	0.933674817	0.00747174	0.032874644
ENSMMUG00000061761	interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]	-	-0.85461126	0.001023703	0.006712874
ENSMMUG00000058942		-	-0.99795241	0.002448852	0.013524316
ENSMMUG00000017533	interferon induced protein with tetratricopeptide repeats 1 [Source:NCBI gene;Acc:695683]	-	1.243304762	0.000132758	0.001261251
ENSMMUG00000063840		-	1.891923286	0.002282781	0.012813917
ENSMMUG00000059038	5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]	-	1.158254525	0.00232155	0.012962258
ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	-	2.252235685	5.63E-10	4.46E-08
ENSMMUG00000058603		-	2.447037862	4.65E-05	0.000525751
ENSMMUG00000017627	B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	-	0.797107589	0.001698121	0.010205987
ENSMMUG00000004816	membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]	-	0.897902041	0.002534831	0.013881268
ENSMMUG00000049455	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.290517801	0.012629735	0.049180339
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	-	2.632973525	7.13E-07	1.62E-05
ENSMMUG00000049508		-	2.663972382	0.00022283	0.001929513
ENSMMUG00000052637	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.516974598	7.75E-06	0.000116798
ENSMMUG00000006841	myoferlin [Source:VGNC Symbol;Acc:VGNC:75061]	-	4.448295052	2.06E-06	3.89E-05
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	-	3.20944964	2.17E-08	8.80E-07
ENSMMUG00000050975		-	1.305464348	0.004502657	0.02191675
ENSMMUG00000004818	sorbin and SH3 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77702]	-	0.310840404	0.007871394	0.034204926
ENSMMUG00000008687	B cell linker [Source:VGNC Symbol;Acc:VGNC:70306]	-	0.502786989	0.010615365	0.043063311
ENSMMUG00000010427	ligand dependent nuclear receptor corepressor [Source:NCBI gene;Acc:705646]	-	0.770798103	0.000226731	0.001958079
ENSMMUG00000010428	slit guidance ligand 1 [Source:VGNC Symbol;Acc:VGNC:77643]	-	0.767497369	0.000425662	0.00326232
ENSMMUG00000019634	ribosomal RNA processing 12 homolog [Source:VGNC Symbol;Acc:VGNC:77122]	-	0.674266047	0.000251139	0.002111387
ENSMMUG00000015503	zinc finger FYVE-type containing 27 [Source:VGNC Symbol;Acc:VGNC:79623]	-	0.54173568	0.005972726	0.027448521
ENSMMUG00000020603	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]	-	1.100834116	3.96E-07	9.85E-06

ENSMMUG00000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.329353674	1.07E-07	3.19E-06
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.074524478	0.000176045	0.001576885
ENSMMUG00000049770	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.556332292	0.000289409	0.002371802
ENSMMUG00000020605	heparanase 2 (inactive) [Source:NCBI gene;Acc:708795]	0.786503329	0.004672622	0.022617088
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	0.927833919	0.000272188	0.00225483
ENSMMUG00000063121		1.530676408	0.000113001	0.001100063
ENSMMUG00000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	1.236684432	0.000585969	0.004257608
ENSMMUG00000006233	adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]	1.545037519	0.003653164	0.018669988
ENSMMUG00000063986		1.774926797	0.001089435	0.007077517
ENSMMUG00000014350	MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]	0.821082217	0.001420067	0.008824362
ENSMMUG00000007775	survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]	0.973169869	0.009603086	0.040031326
ENSMMUG00000057793	dual specificity phosphatase 5 [Source:NCBI gene;Acc:698178]	4.462408847	0.000158552	0.001445078
ENSMMUG00000007982	structural maintenance of chromosomes 3 [Source:VGNC Symbol;Acc:VGNC:77769]	3.049713669	2.08E-06	3.91E-05
ENSMMUG00000019883	RNA binding motif protein 20 [Source:NCBI gene;Acc:698677]	3.163431082	1.67E-07	4.74E-06
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	4.193528621	2.76E-08	1.05E-06
ENSMMUG00000056056		3.680368037	0.003657708	0.018677719
ENSMMUG00000017206	SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]	4.320917885	3.56E-05	0.000423728
ENSMMUG00000003548	tectorin beta [Source:VGNC Symbol;Acc:VGNC:78306]	1.996058672	1.42E-05	0.0001962
ENSMMUG00000054123	vesicle transport through interaction with t-SNAREs 1A [Source:NCBI gene;Acc:696654]	1.276483546	0.001194503	0.007641761
ENSMMUG00000053789		1.059971954	0.001174042	0.00754054
ENSMMUG00000055239		1.279297682	1.48E-07	4.26E-06
ENSMMUG00000022514	coiled-coil domain containing 186 [Source:VGNC Symbol;Acc:VGNC:70847]	0.973207424	3.11E-05	0.000378015
ENSMMUG00000058240		1.093872135	0.011425701	0.045625629
ENSMMUG00000015414	family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]	-1.01763071	0.00278799	0.015027187
ENSMMUG00000021805	RAB11 family interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76560]	1.998871376	0.003489357	0.017937779
ENSMMUG00000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]	1.628059568	2.38E-08	9.53E-07
ENSMMUG00000054942		1.382858181	0.000446143	0.003387351
ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]	1.327465935	1.10E-05	0.000158019
ENSMMUG00000009558	inositol polyphosphate-5-phosphatase F [Source:VGNC Symbol;Acc:VGNC:73610]	2.949639409	5.93E-05	0.000639381
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]	2.181157255	1.42E-05	0.000195812
ENSMMUG00000064321		0.994458459	0.003616776	0.018519602
ENSMMUG00000064557		0.903718829	0.000280596	0.002311232

ENSMMUG0000009594	fibroblast growth factor receptor 2 [Source:VGNC Symbol;Acc:VGNC:72652]	2.330232864	0.011902914	0.047083121
ENSMMUG00000021140	chromosome 9 C10orf120 homolog [Source:VGNC Symbol;Acc:VGNC:70632]	4.393253139	0.008264262	0.035461889
ENSMMUG00000023480	IKAROS family zinc finger 5 [Source:VGNC Symbol;Acc:VGNC:73590]	-	0.00022723	0.001958547
ENSMMUG00000000684	acyl-CoA dehydrogenase short/branched chain [Source:VGNC Symbol;Acc:VGNC:81343]	1.904225407	0.001412014	0.008782711
ENSMMUG00000020346	carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]	2.161613361	6.27E-22	1.02E-18
ENSMMUG00000058933	-	1.676807277	0.006334078	0.028734224
ENSMMUG00000008541	BRCA2 and CDKN1A interacting protein [Source:NCBI gene;Acc:699437]	0.782637923	0.004305116	0.021137158
ENSMMUG00000008542	DEAH-box helicase 32 (putative) [Source:NCBI gene;Acc:695919]	0.845276973	0.001144271	0.007385801
ENSMMUG00000013653	lysine demethylase 5A [Source:VGNC Symbol;Acc:VGNC:82169]	0.402339032	0.000769915	0.005315032
ENSMMUG00000013894	beta-1,4-N-acetyl-galactosaminyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:70121]	1.652779449	0.000708412	0.004988419
ENSMMUG00000049234	ninjurin 2 [Source:NCBI gene;Acc:706368]	2.379132887	0.002620097	0.014282054
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]	0.852618939	5.39E-06	8.71E-05
ENSMMUG00000061935	-	1.447902493	0.002014665	0.011697647
ENSMMUG00000008546	cyclin D2 [Source:NCBI gene;Acc:710379]	1.212862077	0.002267279	0.012754423
ENSMMUG00000015189	RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]	0.883190977	0.01108501	0.044524904
ENSMMUG00000020812	A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]	1.24186075	0.000230069	0.001975101
ENSMMUG00000020813	NADH:ubiquinone oxidoreductase subunit A9 [Source:VGNC Symbol;Acc:VGNC:81480]	-0.78296035	0.006205133	0.028277493
ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	2.578561915	1.26E-05	0.000177543
ENSMMUG00000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.786271883	0.001000777	0.006597115
ENSMMUG00000004470	CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]	3.563340696	5.54E-07	1.31E-05
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	1.490874547	5.24E-06	8.49E-05
ENSMMUG00000053013	-	1.146686003	9.63E-05	0.000965604
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	2.212036916	1.37E-09	8.98E-08
ENSMMUG00000018685	chromodomain helicase DNA binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71029]	1.199036317	4.01E-05	0.000462784
ENSMMUG00000017619	lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]	1.623750184	2.04E-08	8.44E-07
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	1.060411134	7.55E-05	0.000789658
ENSMMUG00000009583	COP9 signalosome subunit 7A [Source:VGNC Symbol;Acc:VGNC:71185]	1.387002226	0.012261633	0.048150602
ENSMMUG00000022109	CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]	1.226042129	0.000156138	0.001431099
ENSMMUG00000005150	CD163 molecule [Source:VGNC Symbol;Acc:VGNC:70752]	3.457983883	8.35E-07	1.84E-05
ENSMMUG00000057570	-	2.53650009	2.48E-09	1.47E-07
ENSMMUG00000048744	-	2.338110498	8.33E-05	0.000862596
ENSMMUG00000057785	-	7.299856596	2.86E-08	1.08E-06
ENSMMUG00000050862	-	1.137551975	0.0014904	0.009182444

ENSMMUG00000044047	killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]	-	1.326338614	0.004065092	0.020226065
ENSMMUG00000056741	ovostatin-like [Source:NCBI gene;Acc:722294]	-	1.680445496	0.002117072	0.012124457
ENSMMUG00000060675		-	1.16283795	2.66E-06	4.84E-05
ENSMMUG00000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	-	1.460542301	7.43E-07	1.67E-05
ENSMMUG00000054225	taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]	-	1.609128014	0.003060395	0.016226456
ENSMMUG00000042870	Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]	-	1.225304299	0.000949286	0.006315301
ENSMMUG00000064931		-	3.175843708	0.000756359	0.005246512
ENSMMUG00000023317	LDL receptor related protein 6 [Source:VGNC Symbol;Acc:VGNC:74446]	-	-1.11682947	0.004106123	0.020391079
ENSMMUG00000057433		-	1.665373646	0.003075272	0.016292053
ENSMMUG00000027447	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.499157709	0.009327543	0.039147168
ENSMMUG00000053781	Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]	-	1.835288789	0.004196671	0.020731446
ENSMMUG00000057672		-	1.335967545	0.000659952	0.004700622
ENSMMUG00000016171	glycogen synthase 2 [Source:VGNC Symbol;Acc:VGNC:73335]	-	1.115945842	8.54E-05	0.000877715
ENSMMUG00000049682	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	5.785961541	1.48E-06	2.93E-05
ENSMMUG00000048030	ferritin, heavy polypeptide 1-like [Source:NCBI gene;Acc:707011]	-	4.040252293	0.001085834	0.007057647
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	-	4.541084063	4.65E-14	1.41E-11
ENSMMUG00000057276		-	-4.81295281	2.01E-08	8.38E-07
ENSMMUG00000053657		-	-3.22011821	0.000995607	0.006566364
ENSMMUG00000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	-	1.377305899	4.66E-05	0.000525751
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	-	1.312592118	6.87E-06	0.000105217
ENSMMUG00000004106	chromosome 11 C12orf71 homolog [Source:VGNC Symbol;Acc:VGNC:70462]	-	2.553150606	0.005320599	0.025063277
ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]	-	1.131600065	0.001996361	0.011601728
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	-	0.630377236	0.006875554	0.030698041
ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]	-	1.349837976	9.09E-08	2.79E-06
ENSMMUG00000001361	importin 8 [Source:VGNC Symbol;Acc:VGNC:73815]	-	0.951093535	0.010549629	0.042913203
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	-	1.240081469	3.33E-17	1.97E-14
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	-	5.518968207	2.05E-09	1.27E-07
ENSMMUG000000039300		-	3.441837964	1.76E-05	0.000233564
ENSMMUG00000003221	DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]	-	1.155168215	0.001286491	0.008122381
ENSMMUG000000063112		-	2.37551678	2.04E-05	0.000265958
ENSMMUG000000056303		-	2.564402049	0.000402941	0.003119433
ENSMMUG00000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	-	0.752997692	0.000708235	0.004988419

ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]	1.151483387	0.000909927	0.006093982
ENSMMUG00000023791	SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]	2.927659602	0.000247026	0.002090725
ENSMMUG00000064730		2.554625242	1.22E-10	1.25E-08
ENSMMUG00000012331	solute carrier family 38 member 4 [Source:VGNC Symbol;Acc:VGNC:77484]	0.873521962	0.000550391	0.004051152
ENSMMUG00000049514	solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]	0.755314802	0.009412775	0.039452965
ENSMMUG00000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	0.561374204	0.002225283	0.012566029
ENSMMUG00000006727	vitamin D receptor [Source:VGNC Symbol;Acc:VGNC:78764]	0.487968511	0.004198572	0.020731446
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	2.675311963	4.28E-12	7.78E-10
ENSMMUG00000054025	testis expressed 49 [Source:NCBI gene;Acc:709603]	0.983346102	0.000373701	0.002933226
ENSMMUG00000012769	limb development membrane protein 1 like [Source:VGNC Symbol;Acc:VGNC:74310]	0.992512393	0.000335791	0.002684263
ENSMMUG00000007546	complement C1q like 4 [Source:VGNC Symbol;Acc:VGNC:70450]	1.022348954	0.00462996	0.022460745
ENSMMUG00000022495	pre-mRNA processing factor 40 homolog B [Source:VGNC Symbol;Acc:VGNC:76312]	0.610723033	0.007790773	0.033945322
ENSMMUG00000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	1.176104416	3.71E-07	9.33E-06
ENSMMUG00000021688	aquaporin 6 [Source:VGNC Symbol;Acc:VGNC:69994]	3.224018961	0.004474087	0.021843082
ENSMMUG00000006531	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 [Source:VGNC Symbol;Acc:VGNC:77653]	0.923647144	0.010032567	0.041416838
ENSMMUG00000018485	methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]	2.288617491	4.33E-07	1.06E-05
ENSMMUG00000027375	Y RNA [Source:RFAM;Acc:RF00019]	2.318811417	5.55E-07	1.31E-05
ENSMMUG00000037566	HIG1 hypoxia inducible domain family member 1C [Source:NCBI gene;Acc:100427233]	1.852108339	6.18E-07	1.44E-05
ENSMMUG00000022961	solute carrier family 11 member 2 [Source:VGNC Symbol;Acc:VGNC:77383]	1.989810101	9.13E-07	1.98E-05
ENSMMUG00000046877	activin A receptor type 1B [Source:NCBI gene;Acc:696587]	1.791993016	0.009167972	0.038627838
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	0.533396835	0.000126825	0.001212828
ENSMMUG00000064514	keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]	0.663091585	0.002212614	0.012511851
ENSMMUG00000057841	keratin 86 [Source:NCBI gene;Acc:697770]	0.76707705	0.005082149	0.024194152
ENSMMUG00000018217	keratin 84 [Source:VGNC Symbol;Acc:VGNC:74220]	1.772479462	0.000290561	0.002379745
ENSMMUG00000014400	keratin 71 [Source:VGNC Symbol;Acc:VGNC:74147]	1.774165034	1.39E-05	0.000192533
ENSMMUG00000014984	keratin, type II cytoskeletal 4 [Source:NCBI gene;Acc:700060]	3.031223695	9.12E-08	2.79E-06
ENSMMUG00000015153	cysteine sulfinic acid decarboxylase [Source:VGNC Symbol;Acc:VGNC:71439]	3.240137747	0.006721294	0.030143843
ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	1.386973548	0.00066796	0.004744668
ENSMMUG00000020036	Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]	1.172473143	0.000270335	0.002243764
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	1.035917547	0.000367761	0.002898849
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	0.812565427	0.005193738	0.024581426
ENSMMUG00000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	2.169007521	1.09E-15	5.07E-13
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	1.661754362	1.45E-05	0.00019955
ENSMMUG00000063910	olfactory receptor 6C1 [Source:NCBI gene;Acc:707644]	2.355782235	1.75E-05	0.000232451

ENSMMUG00000055590		-	0.759138013	0.010551778	0.042913203
ENSMMUG0000006293	SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]		1.04548409	6.20E-05	0.000666015
ENSMMUG00000053458	ORMDL sphingolipid biosynthesis regulator 2 [Source:NCBI gene;Acc:710296]		1.071307337	5.14E-05	0.000571724
ENSMMUG0000006295	matrix metalloproteinase 19 [Source:VGNC Symbol;Acc:VGNC:74896]		0.841479079	0.005746045	0.026614337
ENSMMUG00000064364	sulfite oxidase [Source:NCBI gene;Acc:711164]		1.114088452	0.004638586	0.022485818
ENSMMUG00000020758	erb-b2 receptor tyrosine kinase 3 [Source:NCBI gene;Acc:711407]		3.711920924	4.76E-05	0.000535544
ENSMMUG00000059663			-		
ENSMMUG00000002483	citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]		1.141430633	0.000188284	0.001671553
ENSMMUG00000013482	poly(A) specific ribonuclease subunit PAN2 [Source:NCBI gene;Acc:712478]		1.590134696	3.06E-07	7.87E-06
ENSMMUG00000000803	signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]		2.404033287	0.00045402	0.003433131
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]		2.38400413	2.13E-12	4.07E-10
ENSMMUG00000053460			2.720547027	5.80E-10	4.57E-08
ENSMMUG00000013766	prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]		2.541565363	2.24E-12	4.22E-10
ENSMMUG00000043411	zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]		0.916426259	0.000587846	0.004266475
ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]		1.440698317	0.00011907	0.001147128
ENSMMUG00000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]		0.952113924	0.000920524	0.00614835
ENSMMUG00000055477			-		
ENSMMUG00000062139			1.869598024	3.79E-09	2.06E-07
ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]		1.795763444	4.87E-07	1.18E-05
ENSMMUG0000007658	TANK binding kinase 1 [Source:VGNC Symbol;Acc:VGNC:78107]		1.569076121	0.000223292	0.001932227
ENSMMUG00000041729			-		
ENSMMUG00000053722			2.157254242	7.45E-06	0.000112924
ENSMMUG0000002921	cleavage and polyadenylation specific factor 6 [Source:VGNC Symbol;Acc:VGNC:71401]		-0.36388617	0.00153057	0.009389903
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]		1.885163666	0.001193867	0.007641455
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]		3.192923486	4.39E-06	7.27E-05
ENSMMUG00000054953	leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]		3.414385663	0.011305325	0.04527003
ENSMMUG00000015583	nucleosome assembly protein 1 like 1 [Source:NCBI gene;Acc:719047]		1.351258986	1.29E-09	8.57E-08
ENSMMUG00000017864	oxysterol binding protein like 8 [Source:VGNC Symbol;Acc:VGNC:75630]		2.044561481	1.11E-06	2.31E-05
ENSMMUG00000059985			-		
ENSMMUG00000017463			3.080739002	0.000631791	0.004547354
ENSMMUG00000015862	centrosomal protein 290 [Source:VGNC Symbol;Acc:VGNC:71126]		1.493288564	0.006360893	0.028815663
ENSMMUG00000049117	CLLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]		1.804745578	2.26E-05	0.000289619
ENSMMUG0000002243	pleckstrin homology and RhoGEF domain containing G7 [Source:VGNC Symbol;Acc:VGNC:76149]		3.739713696	0.002033619	0.011758157
			-		
			3.997716542	0.007340693	0.032385702
			0.949656896	0.000101597	0.001007907
			-		
			3.524722108	0.004772611	0.023015415
			-		
			0.907832585	2.54E-05	0.000318802

ENSMMUG0000002244	early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]	1.080407124	0.000562382	0.004120758
ENSMMUG00000052496		0.568300654	5.89E-05	0.000636258
ENSMMUG00000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	1.814716231	2.24E-07	6.10E-06
ENSMMUG00000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	1.955178463	7.85E-07	1.75E-05
ENSMMUG00000056553		1.843102264	0.002018422	0.0117032
ENSMMUG00000009303	coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]	1.091380316	0.002358146	0.013095663
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	2.397228168	1.03E-12	2.19E-10
ENSMMUG00000053376		1.862197717	6.36E-09	3.15E-07
ENSMMUG00000050585		1.770097328	6.13E-09	3.07E-07
ENSMMUG00000022404	apoptotic peptidase activating factor 1 [Source:VGNC Symbol;Acc:VGNC:69975]	0.445519049	0.003135174	0.016535311
ENSMMUG00000022406	ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]	1.332217084	2.86E-09	1.63E-07
ENSMMUG00000061260	Spi-C transcription factor [Source:NCBI gene;Acc:695809]	1.024247127	0.000400057	0.003102649
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	2.04903435	6.14E-06	9.61E-05
ENSMMUG00000023469	heat shock protein 90 beta family member 1 [Source:NCBI gene;Acc:699568]	1.145699689	0.003909328	0.019638747
ENSMMUG00000021291	thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]	-1.37856901	0.000116353	0.001124935
ENSMMUG00000022570	nuclear transcription factor Y subunit beta [Source:NCBI gene;Acc:700451]	1.094822044	0.000122023	0.001171241
ENSMMUG00000017127	carbohydrate sulfotransferase 11 [Source:VGNC Symbol;Acc:VGNC:82123]	1.005186473	0.008640805	0.036786352
ENSMMUG00000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	0.789243231	4.75E-05	0.000534386
ENSMMUG00000061345	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.670149752	0.005890719	0.027140646
ENSMMUG00000009519	WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]	0.946955942	0.000196378	0.001731825
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	2.495398299	1.41E-10	1.40E-08
ENSMMUG00000017124	spliceosome associated factor 3, U4/U6 recycling protein [Source:VGNC Symbol;Acc:VGNC:77029]	2.710861258	1.22E-11	1.75E-09
ENSMMUG00000054621		3.64724115	2.08E-07	5.71E-06
ENSMMUG00000031572	selectin P ligand [Source:VGNC Symbol;Acc:VGNC:77158]	2.942918146	0.000360009	0.002846368
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	0.656028349	0.000727974	0.00510131
ENSMMUG00000056729	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.172737657	0.000544461	0.004012046
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	0.95608396	5.67E-06	9.07E-05
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	1.100147386	2.59E-08	1.01E-06
ENSMMUG00000003297	coiled-coil domain containing 63 [Source:VGNC Symbol;Acc:VGNC:70879]	0.811494728	0.003982377	0.019967155
ENSMMUG00000060917		1.042179335	0.003749799	0.019031288
ENSMMUG00000043209	transmembrane protein 116 [Source:NCBI gene;Acc:107001019]	1.611883452	4.36E-05	0.000498483
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	1.376985039	8.94E-06	0.000131319
ENSMMUG00000013253	protein tyrosine phosphatase non-receptor type 11 [Source:NCBI gene;Acc:712044]	1.674331005	0.000106578	0.001047732
ENSMMUG00000004435	two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]	2.327264831	1.13E-07	3.32E-06

ENSMMUG00000059861	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.328839699	0.00558919	0.02605484
ENSMMUG00000006723	solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]	2.023481117	9.14E-07	1.98E-05
ENSMMUG00000004205	phospholipase B domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76122]	3.017419619	0.001014498	0.006670655
ENSMMUG00000004208	serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]	3.739854961	3.84E-06	6.54E-05
ENSMMUG000000051363		1.062016565	0.001778322	0.010556304
ENSMMUG000000054768		0.835966836	0.000748761	0.005216062
ENSMMUG000000057506		0.77448218	0.000831886	0.005655784
ENSMMUG000000052680		0.670373055	0.002933496	0.015681483
ENSMMUG000000053478		3.869054318	0.009768248	0.040550478
ENSMMUG00000014027	nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]	0.939150967	0.002899926	0.015539444
ENSMMUG000000062615		1.643364987	0.000566267	0.004144549
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	0.880644411	0.000585948	0.004257608
ENSMMUG000000055209		0.979559197	0.000447042	0.003392201
ENSMMUG000000051955	RAB35, member RAS oncogene family [Source:NCBI gene;Acc:698400]	2.346369174	0.005837896	0.026943816
ENSMMUG00000009152	GCN1 activator of EIF2AK4 [Source:VGNC Symbol;Acc:VGNC:72905]	1.953131137	6.66E-06	0.000102514
ENSMMUG000000058536		1.890728244	1.41E-10	1.40E-08
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	1.462740239	5.93E-06	9.35E-05
ENSMMUG000000039520	chromosome 11 C12orf43 homolog [Source:NCBI gene;Acc:698821]	3.25493947	1.75E-08	7.44E-07
ENSMMUG000000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	3.436723103	3.92E-08	1.39E-06
ENSMMUG000000059782		4.260696374	5.66E-12	9.68E-10
ENSMMUG00000016454	4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]	0.903130004	5.61E-05	0.000613399
ENSMMUG00000018037	diablo IAP-binding mitochondrial protein [Source:NCBI gene;Acc:701896]	1.298871919	0.008774173	0.037220122
ENSMMUG00000004412	arginine and serine rich coiled-coil 2 [Source:VGNC Symbol;Acc:VGNC:77139]	2.943470738	9.36E-05	0.000946074
ENSMMUG00000015221	huntingtin interacting protein 1 related [Source:VGNC Symbol;Acc:VGNC:73412]	0.68389253	0.012712044	0.049414563
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	2.397278705	4.87E-12	8.67E-10
ENSMMUG00000015926	2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]	1.09517111	0.000152796	0.001406419
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	0.942784944	0.003334663	0.01734825
ENSMMUG000000059674		1.600895588	0.011400602	0.045553374
ENSMMUG000000064225	tectonic family member 2 [Source:NCBI gene;Acc:721415]	1.261169347	5.40E-08	1.81E-06
ENSMMUG000000046631	refilin A [Source:NCBI gene;Acc:706153]	3.881139065	0.002629326	0.014320358
ENSMMUG00000017902	DEAH-box helicase 37 [Source:VGNC Symbol;Acc:VGNC:71639]	3.471033721	0.008587447	0.036631136
ENSMMUG00000011117	acetoacetyl-CoA synthetase [Source:NCBI gene;Acc:707015]	0.827221661	0.001317404	0.008284812
ENSMMUG000000050145	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.721414468	0.007647509	0.033421878

ENSMMUG0000009789	zinc finger protein 10 [Source:NCBI gene;Acc:695509]	1.275356127	4.04E-05	0.000465334
ENSMMUG00000061826	family with sequence similarity 168 member B [Source:NCBI gene;Acc:703758]	1.440491118	0.002806586	0.015114892
ENSMMUG00000001989	RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]	6.610447318	4.85E-08	1.66E-06
ENSMMUG00000027543	Y RNA [Source:RFAM;Acc:RF00019]	6.773194967	1.33E-08	5.83E-07
ENSMMUG00000004177	myosin VIIB [Source:NCBI gene;Acc:714563]	0.574030568	0.001699448	0.010209246
ENSMMUG00000000376	bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]	2.096255425	0.000793925	0.005454722
ENSMMUG00000053502		5.202183825	5.64E-05	0.000615731
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	1.996674149	3.90E-06	6.58E-05
ENSMMUG00000059182		2.089806702	1.15E-07	3.39E-06
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	1.960775447	5.40E-09	2.75E-07
ENSMMUG00000059504		2.893176579	1.00E-10	1.05E-08
ENSMMUG00000006446	transmembrane protein 177 [Source:VGNC Symbol;Acc:VGNC:79686]	2.142688092	0.009807211	0.040673658
ENSMMUG00000039116	coiled-coil domain containing 93 [Source:VGNC Symbol;Acc:VGNC:84223]	0.877150283	0.000603504	0.004363074
ENSMMUG00000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]	0.772223338	0.009898776	0.040961972
ENSMMUG00000012250	lactase [Source:VGNC Symbol;Acc:VGNC:74244]	1.234769993	0.001594532	0.009695411
ENSMMUG00000017486	minichromosome maintenance complex component 6 [Source:VGNC Symbol;Acc:VGNC:74685]	0.801958494	0.008139267	0.035099239
ENSMMUG00000040854	aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]	1.008883861	0.000194077	0.001714787
ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.752218016	1.14E-06	2.36E-05
ENSMMUG00000016845	zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]	3.213856596	0.000313362	0.002525144
ENSMMUG00000051691		1.180702384	0.000340376	0.002717574
ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	0.680973254	0.001840523	0.010861092
ENSMMUG00000011637	coiled-coil domain containing 148 [Source:VGNC Symbol;Acc:VGNC:70856]	2.306111183	0.007533519	0.033068159
ENSMMUG00000052818	death associated protein like 1 [Source:NCBI gene;Acc:699071]	3.903021357	0.000309013	0.002500949
ENSMMUG00000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	1.799372983	4.35E-09	2.30E-07
ENSMMUG00000055201	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.871981154	0.011364787	0.045438186
ENSMMUG00000061606	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.871981067	0.003998494	0.02002736
ENSMMUG00000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	1.629628276	7.61E-07	1.71E-05
ENSMMUG00000063868	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.743217739	9.94E-05	0.000991075
ENSMMUG00000006182	bromodomain adjacent to zinc finger domain 2B [Source:NCBI gene;Acc:702780]	0.648707665	0.000728853	0.005104721
ENSMMUG00000051450	phospholipase A2 receptor 1 [Source:NCBI gene;Acc:700191]	0.969476301	7.17E-05	0.000757054
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	1.923828825	3.17E-08	1.18E-06
ENSMMUG00000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	2.824325628	6.09E-09	3.06E-07
ENSMMUG00000013251	xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]	2.579493547	0.005890977	0.027140646
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	3.169798784	1.96E-11	2.62E-09

ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	3.0167513	4.49E-09	2.35E-07
ENSMMUG00000020510	kelch like family member 41 [Source:VGNC Symbol;Acc:VGNC:74062]	0.657045307	0.002281593	0.012812781
ENSMMUG00000015198	glutamate decarboxylase 1 [Source:VGNC Symbol;Acc:VGNC:72862]	0.981857164	0.000636722	0.004567679
ENSMMUG00000054176	methyltransferase like 8 [Source:NCBI gene;Acc:695361] DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	1.089490831	0.003067093	0.016255341
ENSMMUG00000023370	histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]	1.701610715	9.12E-12	1.40E-09
ENSMMUG00000007313	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	0.960316101	0.002343264	0.013040862
ENSMMUG00000054462	Rap guanine nucleotide exchange factor 4 [Source:VGNC Symbol;Acc:VGNC:76490]	1.053540214	9.10E-06	0.000133318
ENSMMUG00000020792	Sp3 transcription factor [Source:VGNC Symbol;Acc:VGNC:77846]	0.817561995	0.007215093	0.031907346
ENSMMUG00000021818	Sp9 transcription factor [Source:VGNC Symbol;Acc:VGNC:78027]	2.511601314	0.008058615	0.034867049
ENSMMUG00000060201	corepressor interacting with RBPJ, 1 [Source:VGNC Symbol;Acc:VGNC:71331]	3.578718006	1.77E-05	0.00023503
ENSMMUG00000023005	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	1.672712055	2.41E-15	9.78E-13
ENSMMUG00000063864	homeobox D1 [Source:NCBI gene;Acc:701064] oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]	1.010147272	1.62E-05	0.000218393
ENSMMUG00000023006	protein activator of interferon induced protein kinase EIF2AK2 [Source:VGNC Symbol;Acc:VGNC:76421]	1.770920983	0.000226904	0.001958272
ENSMMUG00000021012	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	0.527511628	0.000463684	0.003486205
ENSMMUG00000052177	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	-2.97143154	0.01105906	0.044461866
ENSMMUG00000065344	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	0.912734179	0.004591442	0.022305095
ENSMMUG0000002183	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783] ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]	1.188920235	0.002142106	0.012209878
ENSMMUG0000002185	transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]	0.563307712	0.002506203	0.013765066
ENSMMUG00000019690		2.857307798	2.41E-09	1.44E-07
ENSMMUG00000053406		3.958297968	0.000293792	0.002401668
ENSMMUG00000014277		1.102699169	4.90E-07	1.18E-05
ENSMMUG00000014397		1.408866117	0.0085105	0.036373335
ENSMMUG00000019462		1.349180703	2.47E-08	9.77E-07
ENSMMUG00000014314		0.527249408	0.001443887	0.008946735
ENSMMUG00000061305		-1.44270331	4.62E-05	0.000523085
ENSMMUG00000003260		1.499646534	5.40E-08	1.81E-06
ENSMMUG00000051366		1.038055855	0.00614103	0.028054174
ENSMMUG00000005613	signal transducer and activator of transcription 1 [Source:VGNC Symbol;Acc:VGNC:77904]	0.636514328	0.000277332	0.002290149
ENSMMUG00000001761	myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]	1.483326284	4.89E-07	1.18E-05
ENSMMUG000000037175	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.532604047	0.003797466	0.019213087
ENSMMUG00000001475		1.827586829	0.012143298	0.04781157

ENSMMUG00000061797	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.496384119	0.002111242	0.012107058
ENSMMUG00000061123	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.529352476	0.006754648	0.030248268
ENSMMUG00000005622	dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]	2.926293214	8.73E-10	6.45E-08
ENSMMUG00000057432	serine/threonine kinase 17b [Source:NCBI gene;Acc:696908]	1.314143643	0.002650422	0.014422105
ENSMMUG00000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	1.049180007	1.03E-06	2.16E-05
ENSMMUG00000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	1.429666439	2.27E-06	4.22E-05
ENSMMUG00000051936		2.384039091	2.68E-05	0.000334157
ENSMMUG00000008101	spermatogenesis associated serine rich 2 like [Source:VGNC Symbol;Acc:VGNC:77984]	1.894015832	0.011193896	0.044890539
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	1.287635667	0.000815662	0.005568765
ENSMMUG00000018151	membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]	2.843700373	0.00163311	0.009892982
ENSMMUG00000000582	NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]	1.140666823	4.72E-05	0.000531557
ENSMMUG00000061021		1.301330582	0.000917805	0.006137261
ENSMMUG00000056824		1.657023373	0.005210917	0.024635835
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	2.369609577	1.30E-18	1.30E-15
ENSMMUG00000057651	frizzled class receptor 5 [Source:NCBI gene;Acc:710796]	2.754449342	0.000757573	0.005252132
ENSMMUG00000008113	pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]	1.444985663	0.006472899	0.029221284
ENSMMUG00000010871	crystallin gamma B [Source:VGNC Symbol;Acc:VGNC:71507]	3.875814354	0.004833696	0.023223883
ENSMMUG00000016077	isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]	3.239313803	4.87E-06	7.97E-05
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	4.003226082	3.58E-17	2.03E-14
ENSMMUG00000005295	parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]	5.146784276	6.44E-06	1.00E-04
ENSMMUG00000002809	unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]	1.049051353	0.001094786	0.007101637
ENSMMUG00000010513	ribulose-5-phosphate-3-epimerase [Source:NCBI gene;Acc:711322]	2.551928254	1.63E-07	4.63E-06
ENSMMUG00000010515	KAT8 regulatory NSL complex subunit 1 like [Source:VGNC Symbol;Acc:VGNC:73913]	2.484604255	1.11E-06	2.31E-05
ENSMMUG00000010508	carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]	1.687645473	0.008829116	0.037416581
ENSMMUG00000061342		1.46494038	4.41E-08	1.52E-06
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	0.848638573	0.000308955	0.002500949
ENSMMUG00000053721		2.148099077	3.43E-07	8.78E-06
ENSMMUG00000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	0.760773058	2.35E-05	0.000299291
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	0.670886407	0.010379189	0.042400013
ENSMMUG00000061834		0.723233989	0.006397487	0.028971349

ENSMMUG00000046282		0.669943281	0.002279996	0.012812781
ENSMMUG00000051349		3.03153485	0.004024744	0.020109806
ENSMMUG00000018139	dedicator of cytokinesis 10 [Source:VGNC Symbol;Acc:VGNC:71888]	1.116866311	0.000514186	0.003819248
ENSMMUG00000051482		2.806748792	2.85E-09	1.63E-07
ENSMMUG00000054072		1.027198261	7.43E-06	0.000112824
ENSMMUG00000045544	neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]	0.732183787	0.002144076	0.012209878
ENSMMUG00000013235	collagen type IV alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:81375]	0.810600524	0.001400893	0.008738615
ENSMMUG00000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	1.583689843	2.68E-05	0.000334157
ENSMMUG00000005646	diacylglycerol kinase delta [Source:VGNC Symbol;Acc:VGNC:71783]	1.472688484	0.002768261	0.014958039
ENSMMUG00000005650	ubiquitin specific peptidase 40 [Source:VGNC Symbol;Acc:VGNC:79226]	0.763091962	0.000162485	0.001473691
ENSMMUG00000051807		1.370306661	6.66E-06	0.000102514
ENSMMUG00000011516	ADP ribosylation factor like GTPase 4C [Source:VGNC Symbol;Acc:VGNC:70018]	2.462395225	0.003206548	0.016843442
ENSMMUG00000054449	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.323511024	0.005585467	0.026046822
ENSMMUG00000017404	IQ motif containing with AAA domain 1 [Source:VGNC Symbol;Acc:VGNC:73660]	3.759990344	0.00117135	0.007532301
ENSMMUG00000061673		1.00850136	0.000939392	0.006255881
ENSMMUG00000031293	anoctamin-9 [Source:NCBI gene;Acc:100425888]	0.817860075	0.000415205	0.003199144
ENSMMUG00000056711	ribonuclease inhibitor-like [Source:NCBI gene;Acc:114672186]	1.249998561	0.002246642	0.012665727
ENSMMUG00000062863		1.419338834	5.59E-06	8.98E-05
ENSMMUG00000004622	NLR family pyrin domain containing 6 [Source:VGNC Symbol;Acc:VGNC:75234]	2.461526216	0.002119623	0.012128387
ENSMMUG00000049915	interferon-induced transmembrane protein 3-like [Source:NCBI gene;Acc:720763]	0.858889357	0.005440165	0.025515608
ENSMMUG00000053491		2.775879827	0.000796249	0.005462031
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	2.936472789	3.18E-13	7.67E-11
ENSMMUG00000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	3.206218153	7.98E-12	1.28E-09
ENSMMUG00000010782	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:114669774]	0.847545453	0.001234739	0.007856659
ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	1.194676882	0.00029791	0.002433806
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	2.870274604	9.45E-12	1.43E-09
ENSMMUG00000054421	Ras association domain family member 7 [Source:NCBI gene;Acc:699206]	0.662344112	0.000138371	0.001300332
ENSMMUG00000004014	interferon regulatory factor 7 [Source:VGNC Symbol;Acc:VGNC:73765]	2.717545678	8.63E-09	4.07E-07
ENSMMUG00000004024	cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]	1.997719279	3.08E-05	0.00037531
ENSMMUG00000007510	transaldolase 1 [Source:VGNC Symbol;Acc:VGNC:78096]	1.127474215	0.000967978	0.006423226
ENSMMUG00000042839		1.233797546	0.002581043	0.014100534
ENSMMUG00000016715	p53-induced death domain protein 1 [Source:VGNC Symbol;Acc:VGNC:81498]	1.024792291	0.000895326	0.006030352
ENSMMUG00000031282	tetraspanin 4 [Source:NCBI gene;Acc:707716]	4.203576106	0.000304494	0.002472069
ENSMMUG00000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	2.050227169	1.02E-05	0.000147279

ENSMMUG00000031267	insulin [Source:NCBI gene;Acc:704534]	-1.07129247	0.002185576	0.012390226
ENSMMUG00000003912	tyrosine hydroxylase [Source:VGNC Symbol;Acc:VGNC:78342]	1.034857062	0.001858244	0.010930945
ENSMMUG00000001324	tetraspanin 32 [Source:VGNC Symbol;Acc:VGNC:78920]	2.124732902	0.000202336	0.001776899
ENSMMUG000000051413		1.888005483	0.012590746	0.049073031
	cysteinyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:70540]	-	-	-
ENSMMUG00000000511		1.075417533	0.001504164	0.009262859
ENSMMUG000000052168		1.351556594	0.007409607	0.032634387
ENSMMUG000000060517		1.450182043	9.95E-05	0.000991246
	carnitine palmitoyltransferase 1A [Source:VGNC Symbol;Acc:VGNC:71475]	-	-	-
ENSMMUG00000001780		0.399386013	0.010831874	0.043710628
	testis expressed metallothionein like protein [Source:VGNC Symbol;Acc:VGNC:79965]	-	-	-
ENSMMUG00000001777		0.550358638	0.00285669	0.015340258
	galanin and GMAP prepropeptide [Source:NCBI gene;Acc:721572]	-	-	-
ENSMMUG000000064140		0.506271398	0.010063787	0.041525893
	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	-	-	-
ENSMMUG000000014237		1.402400552	2.40E-07	6.45E-06
	T-box transcription factor 10 [Source:NCBI gene;Acc:721689]	-	-	-
ENSMMUG000000056105		0.762061637	3.83E-05	0.000447787
	cyclin dependent kinase 2 associated protein 2 [Source:NCBI gene;Acc:711640]	-	-	-
ENSMMUG000000057395		2.315652588	0.006451726	0.029166197
	phosphatidylinositol transfer protein membrane associated 1 [Source:VGNC Symbol;Acc:VGNC:76007]	-	-	-
ENSMMUG000000011821		2.805097724	0.000610253	0.004409418
	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	-	-	-
ENSMMUG000000011817		1.288664468	4.82E-06	7.90E-05
ENSMMUG000000053378		1.067056564	0.000227237	0.001958547
ENSMMUG000000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.610084298	5.04E-06	8.22E-05
	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	-	-	-
ENSMMUG000000005483		0.927888377	0.002515014	0.013801803
ENSMMUG000000005480	carosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	0.555936441	0.000798674	0.005472896
	ankyrin repeat domain 13D [Source:VGNC Symbol;Acc:VGNC:69722]	-	-	-
ENSMMUG000000015928		1.426300647	0.00102593	0.006718653
	G protein-coupled receptor kinase 2 [Source:VGNC Symbol;Acc:VGNC:73253]	-	-	-
ENSMMUG000000015925		1.038131677	0.00281011	0.015121347
ENSMMUG000000008771	lysine demethylase 2A [Source:VGNC Symbol;Acc:VGNC:73824]	0.661559189	0.005150146	0.024455201
	spectrin beta, non-erythrocytic 2 [Source:VGNC Symbol;Acc:VGNC:77872]	-	-	-
ENSMMUG000000062635		0.841014696	0.000430216	0.003291406
	RNA-binding protein 4 [Source:NCBI gene;Acc:713490]	-	-	-
ENSMMUG000000020359		2.537162129	3.23E-06	5.71E-05
		-	-	-
ENSMMUG000000020363		0.569692757	0.009054407	0.038259136
		-	-	-
ENSMMUG000000060650		0.797148966	0.010470588	0.042672937
	Ras and Rab interactor 1 [Source:VGNC Symbol;Acc:VGNC:76769]	-	-	-
ENSMMUG000000015987		0.970372531	0.010345875	0.042357091
	RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]	-	-	-
ENSMMUG000000031202		1.043474339	0.00016459	0.001490054
	kinesin light chain 2 [Source:VGNC Symbol;Acc:VGNC:73869]	-	-	-
ENSMMUG000000022520		1.215270656	0.000224846	0.001944377
	eukaryotic translation initiation factor 1A domain containing [Source:VGNC Symbol;Acc:VGNC:72127]	-	-	-
ENSMMUG000000019115		0.739843505	2.80E-06	5.07E-05
	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]	-	-	-
ENSMMUG000000008652		0.931214499	0.000417875	0.003216572
	FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]	-	-	-
ENSMMUG000000008651		0.727371688	0.008360241	0.035814656
	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]	-	-	-
ENSMMUG000000038363		0.862820952	0.000203423	0.001784034

ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]	0.824984081	0.003320366	0.017322372
ENSMMUG00000007416	signal-induced proliferation-associated 1 [Source:VGNC Symbol;Acc:VGNC:77218]	0.777332912	0.00699677	0.031164382
ENSMMUG00000007406	pecanex 3 [Source:NCBI gene;Acc:716000]	0.454287247	0.006101157	0.027921058
ENSMMUG000000050788	mitogen-activated protein kinase kinase kinase 11 [Source:NCBI gene;Acc:716038]	0.379144522	0.012068118	0.047620734
ENSMMUG00000007402	potassium two pore domain channel subfamily K member 7 [Source:VGNC Symbol;Acc:VGNC:73996]	1.479166656	0.002363057	0.013117338
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]	2.063564726	5.25E-09	2.68E-07
ENSMMUG00000023477		1.363483908	8.40E-08	2.61E-06
ENSMMUG00000023300	FERM domain containing 8 [Source:NCBI gene;Acc:716379]	1.138023346	0.003084196	0.016332679
ENSMMUG00000023297	solute carrier family 25 member 45 [Source:VGNC Symbol;Acc:VGNC:77576]	1.353436752	0.008086536	0.034941357
ENSMMUG00000056343		0.905275226	0.003105188	0.016417035
ENSMMUG00000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]	0.98812932	0.000257809	0.002154926
ENSMMUG00000013475	calpain 1 [Source:VGNC Symbol;Acc:VGNC:70529]	1.17806418	0.002935952	0.015688165
ENSMMUG00000018781	synoviolin 1 [Source:VGNC Symbol;Acc:VGNC:78183]	0.881791317	0.005827593	0.026905811
ENSMMUG00000018773	transmembrane 7 superfamily member 2 [Source:NCBI gene;Acc:721985]	2.586408901	0.000802681	0.005492578
ENSMMUG00000018767	cell division cycle associated 5 [Source:NCBI gene;Acc:721998]	3.356945834	0.000497949	0.003709239
ENSMMUG00000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]	1.01632337	0.000702179	0.004952572
ENSMMUG000000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]	1.32105747	1.77E-06	3.41E-05
ENSMMUG00000003976	glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]	1.01370208	0.000199626	0.001759038
ENSMMUG000000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]	1.502498774	6.79E-06	0.000104161
ENSMMUG00000003973	autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]	-1.85563041	4.96E-08	1.69E-06
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]	0.961702785	6.71E-05	0.000713913
ENSMMUG00000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	0.500947747	0.012548287	0.048977916
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	1.143335019	2.51E-05	0.000315788
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	1.129603804	9.96E-06	0.000143666
ENSMMUG00000000478	OTU deubiquitinase, ubiquitin aldehyde binding 1 [Source:NCBI gene;Acc:717989]	1.465785241	4.79E-06	7.87E-05
ENSMMUG000000052569		2.04990978	0.01036022	0.04237265
ENSMMUG00000014131	microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]	0.875044891	0.002981564	0.015853727
ENSMMUG000000005776	atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]	1.032768545	2.26E-05	0.000289619
ENSMMUG000000005775	phospholipase A and acyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:76055]	0.591775043	0.000115748	0.001120941
ENSMMUG000000045105	phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]	0.959313176	0.000142507	0.001330543
ENSMMUG000000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	0.728573603	3.78E-07	9.48E-06
ENSMMUG000000039671	tetratricopeptide repeat domain 9C [Source:NCBI gene;Acc:718583]	1.680992363	3.15E-06	5.58E-05
ENSMMUG00000013949	chromosome 14 C11orf98 homolog [Source:NCBI gene;Acc:100429527]	1.168358882	0.000990314	0.00654473

ENSMMUG00000018112	EMAP like 3 [Source:VGNC Symbol;Acc:VGNC:72120]	0.992100957	0.008737896	0.037114657
ENSMMUG00000018110	metastasis associated 1 family member 2 [Source:VGNC Symbol;Acc:VGNC:74943]	1.705113932	0.001842159	0.010865816
ENSMMUG00000015148	RAB3A interacting protein like 1 [Source:VGNC Symbol;Acc:VGNC:76638]	2.546812404	0.008460552	0.03619669
ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.519506571	7.38E-06	0.000112202
ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	1.551025377	0.001652772	0.009988823
ENSMMUG00000006655	myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]	2.602470491	0.000951581	0.006324101
ENSMMUG00000022373	transmembrane protein 138 [Source:VGNC Symbol;Acc:VGNC:79644]	3.759986405	0.000555969	0.004085271
ENSMMUG00000022372	cytochrome b561 family member A3 [Source:VGNC Symbol;Acc:VGNC:71458]	2.154575665	9.34E-05	0.000945425
ENSMMUG00000002691	damage specific DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71754]	2.084221785	1.83E-05	0.000241886
ENSMMUG00000002688	von Willebrand factor C and EGF domains [Source:VGNC Symbol;Acc:VGNC:79617]	1.970117876	3.39E-05	0.000407367
ENSMMUG00000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	1.458992084	3.42E-06	5.98E-05
ENSMMUG00000037611	pepsinogen 4, group I (pepsinogen A) [Source:NCBI gene;Acc:694562]	0.559024058	0.00522887	0.024696487
ENSMMUG00000015019	VPS37C subunit of ESCRT-I [Source:VGNC Symbol;Acc:VGNC:79578]	4.06973271	0.000152715	0.001406419
ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	0.742566291	0.01035316	0.042357091
ENSMMUG00000052454	prostaglandin D2 receptor 2 [Source:NCBI gene;Acc:695853]	-1.16553765	0.001694257	0.010187475
ENSMMUG00000031100	membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]	5.519370396	7.39E-12	1.22E-09
ENSMMUG00000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	4.700991043	2.56E-32	1.66E-28
ENSMMUG00000061603		4.221285936	5.49E-05	0.000601842
ENSMMUG00000059299	membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]	4.879086732	1.27E-12	2.62E-10
ENSMMUG00000013526	oocyte-secreted protein 2 [Source:NCBI gene;Acc:697943]	3.363223281	3.73E-06	6.40E-05
ENSMMUG00000053140	putative oocyte-secreted protein 1 homolog [Source:NCBI gene;Acc:698403]	5.193672148	8.29E-08	2.59E-06
ENSMMUG00000057009		4.345421754	0.003750361	0.019031288
ENSMMUG00000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	2.060924759	3.52E-06	6.12E-05
ENSMMUG00000001745	oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]	1.01145355	0.000164275	0.001488889
ENSMMUG00000060712		0.851025348	0.00101427	0.006670655
ENSMMUG00000001083	glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]	0.985962081	2.84E-05	0.000350891
ENSMMUG00000054737		-0.63388225	0.006227797	0.028360898
ENSMMUG00000050844	BTB domain containing 18 [Source:NCBI gene;Acc:703264]	1.412775967	0.012111612	0.047748901
ENSMMUG00000056184		2.281360531	0.000659311	0.004700622
ENSMMUG00000058453	cleavage factor polyribonucleotide kinase subunit 1 [Source:NCBI gene;Acc:705071]	-1.63232727	6.41E-06	9.96E-05
ENSMMUG00000010601	solute carrier family 43 member 3 [Source:NCBI gene;Acc:706267]	3.04812207	2.79E-11	3.46E-09
ENSMMUG00000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.699226706	1.09E-08	4.88E-07
ENSMMUG00000056994	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.672737195	0.005626729	0.026164191
ENSMMUG00000040099	Y RNA [Source:RFAM;Acc:RF00019]	1.767747899	0.003172135	0.016709919
ENSMMUG00000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	1.261009056	4.08E-07	1.01E-05

ENSMMUG00000043682	mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]	3.351342391	0.000233185	0.001997895
ENSMMUG00000011657	CUGBP Elav-like family member 1 [Source:VGNC Symbol;Acc:VGNC:71098]	0.556606531	0.0022952	0.012866968
ENSMMUG00000021446	diacylglycerol kinase zeta [Source:VGNC Symbol;Acc:VGNC:71789]	0.46741694	0.010427288	0.042540867
ENSMMUG00000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	1.518165097	1.66E-06	3.22E-05
ENSMMUG00000049305	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.459481022	0.002559682	0.014005563
ENSMMUG00000047219	carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]	1.508419912	4.59E-06	7.57E-05
ENSMMUG00000000874		1.307916601	6.35E-06	9.88E-05
ENSMMUG00000050952		1.380847054	0.001410533	0.008780338
ENSMMUG00000059728	tumor protein p53 inducible protein 11 [Source:NCBI gene;Acc:715295]	2.784630652	7.70E-05	0.00080399
ENSMMUG00000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	3.161470601	6.11E-08	2.00E-06
ENSMMUG00000004330	peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]	3.553581175	1.93E-06	3.68E-05
ENSMMUG00000004329	solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]	0.932422375	0.000201847	0.001773801
ENSMMUG00000002432	E74 like ETS transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:72209]	0.848301751	0.012881596	0.049877354
ENSMMUG00000017218	KIAA1549 like [Source:VGNC Symbol;Acc:VGNC:73902]	-0.69255661	0.008773483	0.037220122
ENSMMUG00000019988	homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]	1.596075988	0.000251094	0.002111387
ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	1.017238441	0.000304032	0.002469855
ENSMMUG00000055352		1.107395836	8.81E-06	0.000129892
ENSMMUG00000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	1.170807862	2.83E-06	5.09E-05
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	0.966096839	9.91E-05	0.000989413
ENSMMUG00000016942	neuron navigator 2 [Source:VGNC Symbol;Acc:VGNC:74968]	1.345503392	0.012778739	0.049612024
ENSMMUG00000014615	lactate dehydrogenase C [Source:VGNC Symbol;Acc:VGNC:74247]	0.993854312	0.010515767	0.042810752
ENSMMUG00000006405	secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]	1.526756206	2.68E-07	7.06E-06
ENSMMUG00000006403	potassium voltage-gated channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:73971]	1.995920023	1.58E-05	0.000214101
ENSMMUG00000005895	nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]	1.035607243	0.000978723	0.006474706
ENSMMUG00000022548	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:VGNC Symbol;Acc:VGNC:75992]	1.145113503	0.001351044	0.008460126
ENSMMUG00000020246	INSC spindle orientation adaptor protein [Source:VGNC Symbol;Acc:VGNC:73693]	3.298828706	0.002074752	0.011945206
ENSMMUG00000054213	parathyroid hormone [Source:NCBI gene;Acc:700195]	1.444254005	0.003178639	0.016729449
ENSMMUG00000010875	TEA domain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:78301]	0.559481047	0.000526311	0.003898182
ENSMMUG00000043504		0.624094055	0.000299514	0.002442304
ENSMMUG00000037426	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	4.304871071	0.007805541	0.033998281
ENSMMUG00000008758	zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]	1.522352257	0.005461903	0.02558988
ENSMMUG00000023636	importin 7 [Source:NCBI gene;Acc:704213]	1.211846732	0.005703476	0.026461381

ENSMMUG0000005639	transmembrane protein 41B [Source:VGNC Symbol;Acc:VGNC:79754]	1.353571515	0.005540451	0.025864719
ENSMMUG0000006692	signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]	1.154473826	2.29E-06	4.25E-05
ENSMMUG0000006689	nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]	1.50421546	1.02E-07	3.06E-06
ENSMMUG00000038288	TMEM9 domain family member B [Source:NCBI gene;Acc:708447]	1.168215392	9.95E-07	2.11E-05
ENSMMUG00000051468	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.141857016	4.23E-06	7.07E-05
ENSMMUG00000001997	achaete-scute family bHLH transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:70031]	1.312493134	0.005284725	0.024921369
ENSMMUG00000001995	chromosome 14 C11orf16 homolog [Source:NCBI gene;Acc:705319]	-1.15673575	3.39E-05	0.000407592
ENSMMUG00000001994	A-kinase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69600]	-1.51064207	0.001525533	0.00936784
ENSMMUG00000050864		-2.23650302	1.98E-10	1.90E-08
ENSMMUG00000057794	caveolae associated protein 3 [Source:NCBI gene;Acc:712799]	2.670583182	0.009805516	0.040673658
ENSMMUG00000041831	hemoglobin subunit epsilon 1 [Source:NCBI gene;Acc:715414]	1.710438598	1.62E-05	0.000218393
ENSMMUG00000058081	olfactory receptor 52D1-like [Source:NCBI gene;Acc:106992372]	2.225548324	0.000747187	0.005207884
ENSMMUG00000063820	olfactory receptor, family 52, subfamily M, member 1 [Source:NCBI gene;Acc:717723]	4.373801725	3.98E-05	0.000460662
ENSMMUG00000004974	tripartite motif containing 21 [Source:VGNC Symbol;Acc:VGNC:78556]	0.757535169	0.008942576	0.037823463
ENSMMUG00000003962	ribonucleotide reductase catalytic subunit M1 [Source:VGNC Symbol;Acc:VGNC:76941]	1.025204239	0.008716598	0.037036288
ENSMMUG00000003958	stromal interaction molecule 1 [Source:VGNC Symbol;Acc:VGNC:77911]	1.622975438	8.47E-05	0.000871555
ENSMMUG00000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]	0.955658766	0.000317965	0.002557485
ENSMMUG00000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]	0.620576373	0.001634671	0.009897827
ENSMMUG00000003949	cholinergic receptor nicotinic alpha 10 subunit [Source:NCBI gene;Acc:718133]	1.368056799	2.95E-05	0.000361604
ENSMMUG00000003946	ADP-ribosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:69890]	-1.75292858	0.00147276	0.009090993
ENSMMUG00000007325	Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]	2.632357663	1.44E-06	2.88E-05
ENSMMUG00000059115		2.577014733	2.11E-06	3.96E-05
ENSMMUG00000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]	2.102055475	7.81E-10	5.83E-08
ENSMMUG00000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]	-1.81512047	8.42E-20	9.13E-17
ENSMMUG00000021280	leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]	1.682004028	7.05E-07	1.61E-05
ENSMMUG00000021282	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]	1.534581629	9.03E-07	1.97E-05
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]	2.146472326	3.59E-09	1.97E-07
ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]	2.829737489	1.47E-06	2.93E-05
ENSMMUG00000015054	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:69844]	0.529487632	0.003556359	0.018231774

ENSMMUG00000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]	0.7123469	0.000689444	0.004875968
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	2.170130914	1.26E-09	8.43E-08
ENSMMUG00000009126	solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]	-	-	-
ENSMMUG00000000187	UV radiation resistance associated [Source:VGNC Symbol;Acc:VGNC:78751]	0.727704317	0.001004403	0.00661431
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	0.919419253	0.003396066	0.017583292
ENSMMUG00000018168	alkaline ceramidase 3 [Source:VGNC Symbol;Acc:VGNC:69415]	2.395566794	8.05E-15	2.91E-12
ENSMMUG00000018174	calpain 5 [Source:VGNC Symbol;Acc:VGNC:70534]	-0.6163569	0.00152342	0.009359283
ENSMMUG00000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	-	-	-
ENSMMUG00000018944	aquaporin 11 [Source:VGNC Symbol;Acc:VGNC:69866]	0.845630713	0.012344537	0.04840309
ENSMMUG00000018945	chloride nucleotide-sensitive channel 1A [Source:VGNC Symbol;Acc:VGNC:71261]	1.736173504	1.08E-09	7.59E-08
ENSMMUG00000017355	remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]	-	-	-
ENSMMUG00000060971		1.977909652	0.007719619	0.033669136
ENSMMUG00000050119		1.118595666	0.007256554	0.032057998
ENSMMUG00000013045	coiled-coil domain containing 81 [Source:VGNC Symbol;Acc:VGNC:70868]	-	-	-
ENSMMUG00000013055	malic enzyme 3 [Source:VGNC Symbol;Acc:VGNC:74695]	1.469497875	1.55E-06	3.05E-05
ENSMMUG00000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]	1.061540622	0.007212476	0.031906619
ENSMMUG00000013601	chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]	1.446388264	1.28E-05	0.000179322
ENSMMUG00000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	-	-	-
ENSMMUG00000008965	piwi like RNA-mediated gene silencing 4 [Source:VGNC Symbol;Acc:VGNC:81504]	1.345920927	0.002287822	0.012831141
ENSMMUG00000009394	sestrin 3 [Source:VGNC Symbol;Acc:VGNC:77291]	0.976090403	0.003089647	0.016354885
ENSMMUG00000061815		1.151590091	0.001938989	0.01132906
ENSMMUG00000003394	cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]	0.505593795	0.007657975	0.033441051
ENSMMUG00000003400	baculoviral IAP repeat containing 2 [Source:NCBI gene;Acc:702592]	1.223888075	7.48E-05	0.00078631
ENSMMUG00000011015	matrix metalloproteinase 27 [Source:VGNC Symbol;Acc:VGNC:74749]	2.239662554	1.76E-06	3.40E-05
ENSMMUG00000004250	matrix metalloproteinase 12 [Source:VGNC Symbol;Acc:VGNC:74890]	-	-	-
ENSMMUG00000057934		0.587317574	0.011920501	0.04713835
ENSMMUG00000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	-0.78094942	0.000662723	0.004715195
ENSMMUG00000001800	cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]	-	-	-
ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	1.125253476	0.00025057	0.002110695
ENSMMUG00000000797	exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]	6.314060202	1.62E-08	6.96E-07
		0.740880785	0.004800561	0.023115918
		1.236476915	0.011605193	0.046200532
		2.505724172	1.15E-06	2.37E-05
		-1.43219788	4.40E-05	0.000501454
		-	-	-
		1.145428753	0.002494176	0.013716385
		1.843654231	3.26E-08	1.21E-06
		-	-	-
		1.405915793	0.000359277	0.002844099

ENSMMUG00000062793		3.830561871	8.73E-15	3.07E-12
ENSMMUG00000021438	BTG anti-proliferation factor 4 [Source:VGNC Symbol;Acc:VGNC:70305]	0.865317277	0.008153056	0.035135405
ENSMMUG00000053898	chromosome 14 C11orf1 homolog [Source:NCBI gene;Acc:100430882]	1.024484456	0.008700639	0.036980561
ENSMMUG00000060987		0.67387936	0.007659117	0.033441051
ENSMMUG00000007785	beta-secretase 1 [Source:VGNC Symbol;Acc:VGNC:70215]	3.368286727	0.009882682	0.040921413
ENSMMUG00000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	1.771817778	2.90E-09	1.64E-07
ENSMMUG00000007620	transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]	2.248729973	1.34E-06	2.71E-05
ENSMMUG00000006268	junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]	0.926035737	0.000218425	0.001897684
ENSMMUG00000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	0.785071379	0.000650721	0.004652712
ENSMMUG00000065091	myelin protein zero like 2 [Source:NCBI gene;Acc:699330]	0.679826896	0.002461415	0.01357065
ENSMMUG00000045160	ubiquitination factor E4A [Source:NCBI gene;Acc:699836]	0.480916676	0.005884475	0.027129914
ENSMMUG00000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	4.682084131	1.91E-18	1.66E-15
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	4.328970327	3.67E-24	7.95E-21
ENSMMUG00000009316	C-X-C motif chemokine receptor 5 [Source:VGNC Symbol;Acc:VGNC:71392]	1.902163153	2.37E-05	0.000300566
ENSMMUG00000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	1.75268446	0.009510007	0.039756446
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	0.969951658	0.004740673	0.022903353
ENSMMUG00000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	1.056147232	3.33E-06	5.86E-05
ENSMMUG00000014864	VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]	0.867884756	0.000993428	0.006558641
ENSMMUG00000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.204212336	8.42E-07	1.85E-05
ENSMMUG00000014866	hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]	1.061257385	0.001225415	0.007816453
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	1.127716297	6.98E-06	0.000106647
ENSMMUG00000013799	ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]	4.611111223	6.94E-07	1.59E-05
ENSMMUG00000012190	PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:75832]	2.883463089	0.005974686	0.027448521
ENSMMUG00000012191	coiled-coil domain containing 153 [Source:NCBI gene;Acc:704216]	2.239545629	0.000581775	0.004236599
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	1.877816926	0.000230734	0.001979503
ENSMMUG00000022347	glutamate ionotropic receptor kainate type subunit 4 [Source:VGNC Symbol;Acc:VGNC:73279]	1.475283973	0.004004335	0.020030915
ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	1.539838541	1.02E-06	2.14E-05
ENSMMUG00000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	0.910325895	9.48E-05	0.000955132
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	0.850168406	0.003164578	0.016676865
ENSMMUG00000025983	U8 small nucleolar RNA [Source:RFAM;Acc:RF00096]	1.107681418	0.011489631	0.045810589
ENSMMUG00000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	1.100375938	9.78E-06	0.00014128
ENSMMUG00000008486	endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]	1.034814506	0.003657522	0.018677719

ENSMMUG00000065277	hepatic and glial cell adhesion molecule [Source:NCBI gene;Acc:716321]	2.181225111	6.29E-06	9.81E-05
ENSMMUG0000006375	coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]	1.770314326	9.99E-07	2.11E-05
ENSMMUG00000054773	STT3 oligosaccharyltransferase complex catalytic subunit A [Source:NCBI gene;Acc:717056]	1.298628104	0.000249447	0.002106151
ENSMMUG00000038587	prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]	-3.14574451	0.00184843	0.010892924
ENSMMUG00000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	3.931904253	1.21E-06	2.48E-05
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	1.628733713	1.13E-09	7.81E-08
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.253948641	3.30E-13	7.80E-11
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	1.087519156	0.001947594	0.011364024
ENSMMUG00000051915		3.463732778	0.011196748	0.044890539
ENSMMUG00000060836		2.148188956	0.003476192	0.017898399
ENSMMUG00000017555	PR/SET domain 10 [Source:VGNC Symbol;Acc:VGNC:76250]	0.636835532	0.003362855	0.01745303
ENSMMUG00000018029	amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]	1.043734537	0.000247235	0.002090725
ENSMMUG00000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]	1.930875853	1.93E-17	1.19E-14
ENSMMUG00000002250	beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]	4.340040675	6.97E-05	0.000738159
ENSMMUG00000032151	sperm-tail PG-rich repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:78260]	1.142651092	0.009929469	0.041062853
ENSMMUG00000001669	anaphase promoting complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:69641]	0.612546735	0.007810412	0.03400811
ENSMMUG00000001667	transmembrane protein 210 [Source:VGNC Symbol;Acc:VGNC:79945]	1.51536758	0.000142037	0.001328061
ENSMMUG00000063598	leucine rich repeat containing 26 [Source:NCBI gene;Acc:706616]	1.622310188	0.004498024	0.02191675
ENSMMUG00000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]	1.293359243	4.27E-05	0.000490149
ENSMMUG00000011527	TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]	1.171871757	0.000239641	0.002038437
ENSMMUG00000005048	MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]	0.914472063	0.000330401	0.002647685
ENSMMUG00000005047	phosphohistidine phosphatase 1 [Source:NCBI gene;Acc:721674]	2.910110407	0.005168402	0.024491765
ENSMMUG00000005042	RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]	-1.15252941	0.001914245	0.011219769
ENSMMUG00000005040	coiled-coil domain containing 183 [Source:NCBI gene;Acc:709019]	1.218189852	0.009841038	0.040774939
ENSMMUG00000056009	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]	0.96697199	0.002035031	0.011758157
ENSMMUG00000003105	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]	0.744431552	0.003303952	0.017243658
ENSMMUG00000003098	coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]	1.131068011	0.000834943	0.005670633
ENSMMUG00000001409	quiescin sulfhydryl oxidase 2 [Source:VGNC Symbol;Acc:VGNC:76568]	1.551334797	5.47E-07	1.30E-05
ENSMMUG00000004885		2.537306976	0.003331678	0.017339659
ENSMMUG00000004882	LIM homeobox 3 [Source:VGNC Symbol;Acc:VGNC:74263]	4.369678538	0.010270034	0.042149592

ENSMMUG00000045749		2.169999837	0.004821331	0.023184261
ENSMMUG00000016827	UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]	2.373040937	3.58E-05	0.000424562
ENSMMUG00000021497	calmodulin regulated spectrin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:70583]	2.130851176	4.38E-07	1.07E-05
ENSMMUG00000056035	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-	-
ENSMMUG00000055942	spermatogenesis and oogenesis specific basic helix-loop-helix 1 [Source:NCBI gene;Acc:721833]	1.512954764	0.002900951	0.015539444
ENSMMUG00000012147	collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]	2.447662858	9.98E-06	0.000143804
ENSMMUG00000008183	retinoid X receptor alpha [Source:VGNC Symbol;Acc:VGNC:76951]	3.180659012	1.53E-11	2.14E-09
ENSMMUG00000051925		3.460097493	0.008696444	0.036974811
		1.869077809	1.01E-08	4.65E-07
ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	-	-	-
ENSMMUG00000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]	4.431289692	2.66E-09	1.55E-07
ENSMMUG00000022348	surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]	3.941048471	1.10E-11	1.64E-09
ENSMMUG00000050752	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.861602907	0.000421541	0.003242198
ENSMMUG00000051984		-	-	-
ENSMMUG00000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	2.290002975	0.002302244	0.012895342
ENSMMUG00000036223		2.409485081	0.001065375	0.006942019
ENSMMUG00000003797	ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]	2.985014864	6.75E-05	0.000717025
ENSMMUG00000056226		2.989039246	0.000465508	0.00349763
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	1.62542807	0.001221516	0.007799234
ENSMMUG00000049483		-	-	-
ENSMMUG00000002515	protein phosphatase 2 phosphatase activator [Source:VGNC Symbol;Acc:VGNC:76583]	1.990875892	0.004227945	0.020815005
ENSMMUG00000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	2.229429999	6.25E-09	3.10E-07
ENSMMUG00000052476	zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]	3.195458402	0.012598046	0.049073031
ENSMMUG00000016826	MAPK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:74531]	2.234876342	1.76E-18	1.64E-15
ENSMMUG00000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]	0.829681196	0.002528414	0.013851959
ENSMMUG00000005217	heat shock protein family A (Hsp70) member 5 [Source:NCBI gene;Acc:703193]	1.683197165	3.29E-05	0.00039752
ENSMMUG00000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]	1.005680095	0.001104498	0.00716107
ENSMMUG00000020549	protein phosphatase 6 catalytic subunit [Source:NCBI gene;Acc:703658]	1.020422652	0.000116201	0.001124486
ENSMMUG00000061871		0.906531312	0.004198332	0.020731446
ENSMMUG00000011183	olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]	1.241269716	6.63E-06	0.000102351
ENSMMUG00000033102	mml-mir-181b-2 [Source:miRBase;Acc:MI0007646]	0.985311468	0.008079379	0.034922035
ENSMMUG00000026876	mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]	-2.21215906	0.009688346	0.04031966
ENSMMUG00000063639		-	-	-
ENSMMUG00000038944		2.187277642	4.51E-05	0.000512714
		2.859603301	0.001246754	0.007909897
		-	-	-
		3.038169068	0.000321846	0.002582315
		3.491882921	2.27E-11	2.96E-09
		2.135482795	1.69E-07	4.78E-06

ENSMMUG00000043396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.995589677	0.001083117	0.007043513
ENSMMUG00000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	2.52760445	1.87E-08	7.91E-07
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	2.43085084	2.54E-11	3.23E-09
ENSMMUG000000065273		-		
ENSMMUG00000013107	tripartite motif containing 32 [Source:VGNC Symbol;Acc:VGNC:79032]	1.576154302	0.011333769	0.045355998
ENSMMUG00000013099	pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]	1.204245195	0.0001561	0.001431099
ENSMMUG00000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]	1.847360866	7.63E-08	2.43E-06
ENSMMUG000000041301		1.565803709	3.51E-05	0.000418303
ENSMMUG000000064892	TNF superfamily member 8 [Source:NCBI gene;Acc:702944]	-		
ENSMMUG00000044537	DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]	0.971875642	0.010296819	0.042238569
ENSMMUG00000031965	aminolevulinatase dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]	2.849650078	8.51E-08	2.64E-06
ENSMMUG00000057031		-2.64976713	0.001425714	0.008850994
ENSMMUG00000007187	haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]	2.492360041	2.42E-05	0.000306195
ENSMMUG00000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	2.594615443	0.000382641	0.002989945
ENSMMUG00000057503	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-		
ENSMMUG00000000690	catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]	2.222293263	0.003834154	0.01936583
ENSMMUG00000053648	actin binding transcription modulator [Source:NCBI gene;Acc:710486]	3.505043234	1.95E-07	5.39E-06
ENSMMUG00000019357	elongator complex protein 1 [Source:VGNC Symbol;Acc:VGNC:72257]	1.414030242	0.001740056	0.010386034
ENSMMUG00000019355	actin like 7A [Source:VGNC Symbol;Acc:VGNC:69417]	1.098072521	0.000713865	0.005015949
ENSMMUG00000019354	actin like 7B [Source:VGNC Symbol;Acc:VGNC:69421]	1.233942814	8.47E-05	0.000871555
ENSMMUG00000023797	post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]	0.814334346	2.53E-06	4.65E-05
ENSMMUG00000053976	bile acid-CoA:amino acid N-acyltransferase [Source:NCBI gene;Acc:100429419]	1.672522222	0.000401487	0.00311188
ENSMMUG00000057599		2.266930263	3.98E-05	0.000460577
ENSMMUG00000009831	TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]	1.722562651	5.84E-05	0.000633186
ENSMMUG00000002853	coronin 2A [Source:VGNC Symbol;Acc:VGNC:71451]	1.402130758	0.000149025	0.001380497
ENSMMUG00000008670	SH2 domain containing adaptor protein B [Source:VGNC Symbol;Acc:VGNC:82236]	2.218849603	0.000137995	0.001297732
ENSMMUG00000017886	F-box protein 10 [Source:NCBI gene;Acc:718443]	-		
ENSMMUG00000017892	RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]	1.934039519	0.000170609	0.00153773
ENSMMUG00000007421	zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]	0.650529386	0.011928841	0.047145711
ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	0.542716988	0.007593891	0.0332434
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	-		
ENSMMUG00000059406	RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]	1.125857373	0.002802156	0.015097284
		1.055984974	0.00048432	0.00361513
		-		
		0.886389051	0.006167227	0.028145534
		-5.29328675	1.04E-08	4.73E-07
		1.896822497	2.70E-10	2.42E-08
		-		
		3.582672311	1.35E-05	0.000188247

ENSMMUG00000016331	glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]	-	4.386483641	6.29E-05	0.000675463
ENSMMUG00000031856	talin 1 [Source:VGNC Symbol;Acc:VGNC:78371]	-	0.827924913	9.49E-05	0.000955132
ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	-	1.386723327	0.000254792	0.00213657
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.536210428	8.47E-05	0.000871555
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	-	1.572053023	5.26E-05	0.000581187
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	-	1.567397851	4.08E-05	0.000469644
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	-	3.344441719	1.12E-17	8.06E-15
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	-	1.683284602	2.21E-10	2.05E-08
ENSMMUG00000020190	valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]	-	1.801519498	1.84E-05	0.000243032
ENSMMUG00000061896		-	2.690524424	1.35E-06	2.74E-05
ENSMMUG00000022895	DnaJ heat shock protein family (Hsp40) member B5 [Source:NCBI gene;Acc:699081]	-	0.492040726	0.011640122	0.046325406
ENSMMUG00000012597	ubiquitin associated protein 2 [Source:VGNC Symbol;Acc:VGNC:78949]	-	1.806553626	0.000167535	0.001513168
ENSMMUG00000035888	small nucleolar RNA, C/D box 121A [Source:HGNC Symbol;Acc:HGNC:33560]	-	1.872390333	0.004832499	0.023223883
ENSMMUG00000053200	ubiquitin conjugating enzyme E2 R2 [Source:NCBI gene;Acc:701507]	-	1.559577123	5.08E-05	0.000565612
ENSMMUG00000000389	nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]	-	0.777816859	0.010631843	0.04310031
ENSMMUG00000012442	DExD/H-box helicase 58 [Source:VGNC Symbol;Acc:VGNC:71672]	-	0.500473068	0.002280638	0.012812781
ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	-	2.107984643	5.16E-08	1.75E-06
ENSMMUG00000062843	MOB kinase activator 3B [Source:NCBI gene;Acc:706919]	-	1.149961788	6.74E-06	0.000103547
ENSMMUG00000064752	phospholipase A2 activating protein [Source:NCBI gene;Acc:707876]	-	-2.92752918	0.000386379	0.003014544
ENSMMUG00000050918		-	0.864803756	0.004809806	0.023151866
ENSMMUG00000010959	kelch like family member 9 [Source:VGNC Symbol;Acc:VGNC:74080]	-	3.022089939	0.008073288	0.034907308
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	-	0.812736439	0.004155615	0.020589686
ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	-	2.12430305	3.60E-07	9.11E-06
ENSMMUG00000001141	basonuclin 2 [Source:VGNC Symbol;Acc:VGNC:70448]	-	2.449569625	0.012276944	0.048167099
ENSMMUG00000013466	tetratricopeptide repeat domain 39B [Source:VGNC Symbol;Acc:VGNC:79402]	-	0.788874609	2.56E-07	6.81E-06
ENSMMUG00000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	0.681849192	0.00506572	0.024133611
ENSMMUG00000008128	FRAS1 related extracellular matrix 1 [Source:VGNC Symbol;Acc:VGNC:72768]	-	0.976426359	1.44E-05	0.000198126
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	-	0.848772896	7.31E-07	1.65E-05
ENSMMUG00000050923		-	0.987556119	0.003773458	0.019111212
ENSMMUG00000002175	TPD52 like 3 [Source:HGNC Symbol;Acc:HGNC:23382]	-	0.736618644	0.008591666	0.036637119
ENSMMUG00000021344	interleukin 33 [Source:VGNC Symbol;Acc:VGNC:73606]	-	1.024326316	0.009704534	0.040339574
ENSMMUG00000005469	endoplasmic reticulum metalloproteinase 1 [Source:VGNC Symbol;Acc:VGNC:72322]	-	0.730009566	3.18E-05	0.000385818

ENSMMUG00000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	1.82114284	9.60E-08	2.91E-06
ENSMMUG00000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	2.031882355	0.004846031	0.02327455
ENSMMUG00000056693		-	-	-
ENSMMUG00000015093	very low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:78774]	0.719440031	0.00072408	0.005079495
ENSMMUG00000057073		0.474061523	0.009156302	0.038608027
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	4.295653859	7.47E-06	0.000113037
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	-1.0066959	0.000226688	0.001958079
ENSMMUG00000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.004188596	4.80E-06	7.87E-05
ENSMMUG00000012667	annexin A1 [Source:VGNC Symbol;Acc:VGNC:69944]	2.361262925	1.48E-06	2.93E-05
ENSMMUG00000019761	G protein subunit alpha 14 [Source:VGNC Symbol;Acc:VGNC:73088]	1.36216342	7.19E-05	0.000758938
ENSMMUG00000056840		1.635287492	0.010651103	0.043141778
ENSMMUG00000064984		0.977378285	0.000249545	0.002106151
ENSMMUG00000023117	neurotrophic receptor tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:75541]	4.051392567	0.003299777	0.017228786
ENSMMUG00000060761		0.743951434	0.000166283	0.001502899
ENSMMUG00000054211		1.554803899	9.12E-08	2.79E-06
ENSMMUG00000057499		2.1400417	0.002618252	0.014277984
ENSMMUG00000049479		1.756992292	0.000357927	0.002836807
ENSMMUG0000001748	spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]	3.03789061	0.00266005	0.01445742
ENSMMUG00000020009	receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]	2.048240252	0.000101344	0.00100694
ENSMMUG00000060533		0.926053028	0.005173006	0.024501134
ENSMMUG0000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	0.810608193	0.00232922	0.012982861
ENSMMUG0000009493	family with sequence similarity 120A [Source:NCBI gene;Acc:717459]	1.060546704	0.005502426	0.025751909
ENSMMUG00000060932	zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]	2.654824346	5.24E-11	6.15E-09
ENSMMUG00000049314	dual specificity phosphatase 2 [Source:NCBI gene;Acc:718442]	0.984077185	0.002925977	0.015654156
ENSMMUG00000053389		2.909677478	0.005466264	0.025601091
ENSMMUG00000057143	transmembrane protein 127 [Source:NCBI gene;Acc:705069]	-0.90320659	0.000590872	0.004281272
ENSMMUG00000057336		1.245524172	2.04E-05	0.000265958
ENSMMUG0000001390	NCK adaptor protein 2 [Source:VGNC Symbol;Acc:VGNC:75142]	0.555456956	0.000368386	0.002898977
ENSMMUG00000055529	sulfotransferase family 1C member 4 [Source:NCBI gene;Acc:693903]	1.361313977	0.003330545	0.017339659
ENSMMUG0000009156	LIM zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74271]	3.058537218	0.003235507	0.016947647
ENSMMUG00000060346		2.355276905	0.004368563	0.021388851
ENSMMUG0000002231	transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]	1.616872679	0.003712931	0.018892949
ENSMMUG00000051042		0.795314443	0.011841976	0.04692901
		1.120377977	3.75E-09	2.04E-07

ENSMMUG0000008056	threonine synthase like 2 [Source:VGNC Symbol;Acc:VGNC:79519]	2.284859892	0.008028181	0.034781651
ENSMMUG00000046169		2.056917886	9.83E-05	0.00098423
ENSMMUG0000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	1.134090366	7.96E-06	0.000119263
ENSMMUG00000051034		2.541096748	0.004501959	0.02191675
ENSMMUG00000062818	regenerating islet-derived protein 3-alpha [Source:NCBI gene;Acc:716890]	1.406692291	0.001875402	0.011011956
ENSMMUG00000056785		0.726125473	0.010010348	0.04134474
ENSMMUG00000062747		0.413627423	0.010919394	0.04399555
ENSMMUG00000048322	eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]	1.601896287	0.000137073	0.001291863
ENSMMUG00000051843		0.802097888	0.000877451	0.005922224
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	2.14854122	0.002020701	0.011706566
ENSMMUG00000008396	methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]	0.866690528	0.000102139	0.001011745
ENSMMUG00000002096	N-acetylglucosamine kinase [Source:VGNC Symbol;Acc:VGNC:74977]	-0.55936691	0.003862817	0.019465243
ENSMMUG00000002093	testis expressed 261 [Source:NCBI gene;Acc:703863]	0.917458325	2.12E-06	3.98E-05
ENSMMUG00000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	-1.5202061	1.33E-05	0.000186191
ENSMMUG00000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	1.380606237	2.56E-06	4.69E-05
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	3.59427637	4.24E-11	5.06E-09
ENSMMUG00000059700		3.66719166	4.97E-06	8.12E-05
ENSMMUG00000020854	C-type lectin domain family 4 member F [Source:VGNC Symbol;Acc:VGNC:71349]	4.411794941	0.007001476	0.031174666
ENSMMUG00000010592	adducin 2 [Source:VGNC Symbol;Acc:VGNC:69529]	2.351139753	0.00664757	0.029844077
ENSMMUG00000063699		3.537059343	0.004352378	0.021328949
ENSMMUG00000049539		1.187184199	9.30E-05	0.000941829
ENSMMUG00000047067	SERTA domain containing 2 [Source:NCBI gene;Acc:696216]	0.604243592	0.009944682	0.041086573
ENSMMUG00000006503	aftiphilin [Source:VGNC Symbol;Acc:VGNC:69701]	0.786482655	0.008244075	0.035398626
ENSMMUG00000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	0.788287782	0.000443581	0.003372831
ENSMMUG00000013973	chaperonin containing TCP1 subunit 4 [Source:VGNC Symbol;Acc:VGNC:70747]	1.613496282	0.010577815	0.042951939
ENSMMUG00000057547		0.651336557	0.00015459	0.001420921
ENSMMUG00000008098	ubiquitin specific peptidase 34 [Source:VGNC Symbol;Acc:VGNC:79223]	0.880645176	0.00064806	0.004641334
ENSMMUG00000055963		1.118971805	3.77E-05	0.000443451
ENSMMUG00000010834	REL proto-oncogene, NF-kB subunit [Source:VGNC Symbol;Acc:VGNC:76892]	0.472904899	0.001349944	0.008457311
ENSMMUG00000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	5.105324927	6.54E-06	0.00010128
ENSMMUG00000007001	protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]	5.213231093	0.000124357	0.001191881
ENSMMUG00000007000	cilia and flagella associated protein 36 [Source:VGNC Symbol;Acc:VGNC:71142]	3.792208691	0.010342184	0.042357091
ENSMMUG00000052169	potassium two pore domain channel subfamily K member 12 [Source:NCBI gene;Acc:715556]	4.177199985	0.000237778	0.002025238

ENSMMUG00000053577		-	2.395339668	1.05E-07	3.15E-06
ENSMMUG00000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	-	2.366430367	2.16E-05	0.000279169
ENSMMUG00000059300		-	1.096929874	0.000776154	0.005343919
ENSMMUG00000054734		-	1.018028138	0.001629797	0.009882115
ENSMMUG00000023752	SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]	-	1.251036444	0.00418519	0.020710279
ENSMMUG00000053683		-	1.463540014	3.00E-05	0.000367305
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	-	1.318710926	2.00E-09	1.25E-07
ENSMMUG00000051072		-	0.771108863	4.98E-05	0.000555432
ENSMMUG00000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	-	0.555699609	0.005748891	0.026615343
ENSMMUG00000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	-	0.789869422	3.85E-06	6.54E-05
ENSMMUG00000064735	3-hydroxyanthranilate 3,4-dioxygenase [Source:NCBI gene;Acc:713101]	-	0.522912535	0.00615517	0.028108897
ENSMMUG00000020744	metastasis associated 1 family member 3 [Source:VGNC Symbol;Acc:VGNC:74814]	-	0.780806652	0.002145131	0.012209878
ENSMMUG00000056008		-	0.8952842	5.05E-06	8.23E-05
ENSMMUG00000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]	-	0.388086223	0.009826936	0.040730823
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	-	1.230534046	1.95E-07	5.39E-06
ENSMMUG00000054398		-	0.733907321	0.010348982	0.042357091
ENSMMUG00000016442	glutaminy-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]	-	2.052798857	0.003049923	0.016177526
ENSMMUG00000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	-	2.308749344	1.48E-06	2.93E-05
ENSMMUG00000016434	NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]	-	2.412753534	1.08E-07	3.21E-06
ENSMMUG00000037522	eukaryotic translation initiation factor 2 alpha kinase 2 [Source:NCBI gene;Acc:708912]	-	3.294276926	1.36E-06	2.75E-05
ENSMMUG00000030867	G-patch domain containing 11 [Source:NCBI gene;Acc:708809]	-	3.207698115	0.010157548	0.041846394
ENSMMUG00000049720		-	3.267363437	0.001712553	0.010264269
ENSMMUG00000021436	latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]	-	1.280148177	0.000386902	0.003016818
ENSMMUG00000008288	sorting nexin 17 [Source:VGNC Symbol;Acc:VGNC:77709]	-	3.13370734	0.001135182	0.007330775
ENSMMUG00000003355	lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]	-	1.362296989	2.48E-06	4.57E-05
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	-	1.450358936	3.55E-07	9.04E-06
ENSMMUG00000064216		-	-2.40985925	0.000268511	0.002230047
ENSMMUG00000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	-	2.937183377	1.88E-05	0.000246827
ENSMMUG00000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	-	4.402155692	3.43E-08	1.25E-06
ENSMMUG00000004215	LRAT domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74321]	-	2.761845832	0.00122885	0.007830685
ENSMMUG00000052377		-	1.49870394	0.007591102	0.03324238
ENSMMUG00000056755		-	2.251240521	0.000982255	0.006494768
ENSMMUG00000050686		-	1.248119276	0.006350933	0.028780568
ENSMMUG00000059188		-	2.176526399	6.25E-11	7.06E-09

ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	2.574264657	3.70E-08	1.33E-06
ENSMMUG00000060435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.697878142	0.000107452	0.001054734
ENSMMUG00000022785	solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]	1.701868146	0.01077652	0.043527768
ENSMMUG00000059454		5.127178163	5.55E-05	0.000607583
ENSMMUG00000021036	kinase D interacting substrate 220 [Source:VGNC Symbol;Acc:VGNC:73947]	4.799248671	5.91E-05	0.000637988
ENSMMUG00000063262		0.953850094	7.03E-05	0.000743552
ENSMMUG00000051814		1.4715232	2.58E-09	1.52E-07
ENSMMUG00000009662	thyroid peroxidase [Source:VGNC Symbol;Acc:VGNC:78636]	0.801269617	0.012712681	0.049414563
ENSMMUG00000061533		2.155803663	3.98E-08	1.40E-06
ENSMMUG00000050543		1.648944463	0.001587315	0.009669609
ENSMMUG00000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	3.075837268	4.98E-10	4.07E-08
ENSMMUG00000005588	SH3 and multiple ankyrin repeat domains 3 [Source:NCBI gene;Acc:100430318]	0.938744396	0.004321663	0.021210398
ENSMMUG00000009115	tubulin tyrosine ligase like 8 [Source:VGNC Symbol;Acc:VGNC:79943]	0.562695697	0.000907225	0.006085285
ENSMMUG00000011278	cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]	0.457858763	0.004488097	0.021895045
ENSMMUG00000000553	bromodomain containing 1 [Source:VGNC Symbol;Acc:VGNC:70280]	1.693477509	0.000157609	0.001439513
ENSMMUG00000003764	TBC1 domain family member 22A [Source:VGNC Symbol;Acc:VGNC:82077]	0.687914348	0.00475784	0.02296121
ENSMMUG00000056186		1.179374315	0.005257612	0.024802504
ENSMMUG00000020993	cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]	1.270166564	0.001852135	0.010904872
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	1.842081199	4.93E-05	0.000551273
ENSMMUG00000023004	structural maintenance of chromosomes 1B [Source:VGNC Symbol;Acc:VGNC:77657]	0.478720494	0.006928377	0.030902084
ENSMMUG00000023003	family with sequence similarity 118 member A [Source:VGNC Symbol;Acc:VGNC:72265]	0.636122357	0.003323272	0.017323636
ENSMMUG00000031000	Rho GTPase activating protein 8 [Source:NCBI gene;Acc:716745]	2.846240203	0.001554028	0.009520346
ENSMMUG00000065099		-1.75812363	6.34E-06	9.87E-05
ENSMMUG00000051681	retrotransposon Gag like 6 [Source:NCBI gene;Acc:712760]	2.255963934	2.23E-10	2.06E-08
ENSMMUG00000064395		1.523132439	1.69E-05	0.000225581
ENSMMUG00000022590	metallophosphoesterase domain containing 1 [Source:NCBI gene;Acc:715021]	3.253246705	3.03E-11	3.72E-09
ENSMMUG00000008106	solute carrier family 25 member 17 [Source:NCBI gene;Acc:705547]	0.660957947	0.003848943	0.019410375
ENSMMUG00000056662		1.572222118	4.05E-06	6.80E-05
ENSMMUG00000012101	synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]	-1.02683742	0.000800874	0.00548508
ENSMMUG00000048395	chromobox 6 [Source:NCBI gene;Acc:702133]	5.997476033	2.58E-06	4.73E-05
ENSMMUG00000004869	neuronal pentraxin receptor [Source:NCBI gene;Acc:100428434]	4.244821146	0.009593044	0.040002287
ENSMMUG00000004868	dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]	4.325795697	0.000853716	0.005774017
ENSMMUG00000007277	GTP binding protein 1 [Source:VGNC Symbol;Acc:VGNC:73320]	1.519989901	0.003895992	0.019594458
ENSMMUG00000061986		-1.55155332	0.008005582	0.034695301

ENSMMUG00000049788		2.238084747	0.000902478	0.006060466
ENSMMUG00000015258	glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]	3.157749796	1.26E-05	0.000177101
ENSMMUG00000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	0.830758825	0.000207454	0.001814491
ENSMMUG00000056629	nucleolar protein 12 [Source:NCBI gene;Acc:698318]	1.693854673	0.006758532	0.030248268
ENSMMUG00000003007	caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]	3.727029413	2.62E-05	0.000327332
ENSMMUG00000003005	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]	6.219616308	5.36E-07	1.27E-05
ENSMMUG00000014986	testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]	0.722376015	0.004228298	0.020815005
ENSMMUG00000008160	neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]	2.087098629	2.20E-06	4.10E-05
ENSMMUG00000055820		2.166511189	0.00038366	0.002995131
ENSMMUG00000008778	parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]	2.099724223	2.80E-08	1.06E-06
ENSMMUG00000006101	myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]	1.149203352	1.67E-05	0.000223517
ENSMMUG00000060967		1.140329562	0.002078045	0.011958875
ENSMMUG00000014010	RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]	0.712221475	1.51E-06	2.99E-05
ENSMMUG00000048463	apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]	0.858594026	3.94E-05	0.000456888
ENSMMUG00000059824		3.163905854	0.010611609	0.043062273
ENSMMUG00000021727	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein eta [Source:NCBI gene;Acc:717016]	0.494428871	0.000194262	0.001715252
ENSMMUG00000002182	phosphatidylserine decarboxylase [Source:VGNC Symbol;Acc:VGNC:76005]	1.316600522	0.007116265	0.031566897
ENSMMUG00000002181	SFI1 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]	1.448379037	3.84E-05	0.000448462
ENSMMUG00000037662	selenoprotein M [Source:NCBI gene;Acc:718290]	1.832126511	0.012869557	0.04986043
ENSMMUG00000005898	MORC family CW-type zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:74810]	2.928763195	0.010389494	0.042412353
ENSMMUG00000052343		0.997667519	0.008353401	0.035797145
ENSMMUG00000021374	EWS RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72446]	1.132211721	0.001446395	0.008958005
ENSMMUG00000021372	EMI domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72063]	1.328742541	5.16E-06	8.38E-05
ENSMMUG00000007215	X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]	1.398822393	0.000312722	0.002521553
ENSMMUG00000053198	coiled-coil domain containing 117 [Source:NCBI gene;Acc:713804]	1.477878135	0.000359885	0.002846368
ENSMMUG00000020486	checkpoint kinase 2 [Source:VGNC Symbol;Acc:VGNC:70958]	0.78563097	9.38E-05	0.000946834
ENSMMUG00000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	2.11868091	8.39E-06	0.000124139
ENSMMUG00000023442	HPS4 biogenesis of lysosomal organelles complex 3 subunit 2 [Source:VGNC Symbol;Acc:VGNC:73396]	3.664723471	0.000303449	0.002468207
ENSMMUG00000003334	myosin XVIIIIB [Source:VGNC Symbol;Acc:VGNC:74985]	0.776618039	0.00580895	0.026848331
ENSMMUG00000023053		0.533074365	0.00025622	0.002144398
ENSMMUG00000053799	glutathione S-transferase theta 1 [Source:NCBI gene;Acc:700314]	0.766893142	0.000355993	0.002824923
ENSMMUG00000044782		0.758506623	0.010873191	0.043836553
ENSMMUG00000020999	gamma-glutamyltransferase 1 [Source:NCBI gene;Acc:707545]	1.010646624	0.001386225	0.008651266
ENSMMUG00000000264	small nuclear ribonucleoprotein D3 polypeptide [Source:VGNC Symbol;Acc:VGNC:77678]	5.105848924	0.000802813	0.005492578

ENSMMUG00000049542		2.282355577	2.18E-09	1.33E-07
ENSMMUG00000023622	BCR activator of RhoGEF and GTPase [Source:NCBI gene;Acc:709258]	1.710804497	1.35E-05	0.000188378
ENSMMUG00000001776	G protein subunit alpha z [Source:VGNC Symbol;Acc:VGNC:73094]	0.742629276	0.000460859	0.003478777
ENSMMUG00000014641		0.475028312	0.004221004	0.02081101
ENSMMUG000000051343		3.414120317	8.77E-05	0.000897449
ENSMMUG000000056950		1.829358534	3.26E-09	1.81E-07
ENSMMUG000000039205		1.956185346	0.004941293	0.023627373
ENSMMUG00000018798	stromal cell derived factor 2 like 1 [Source:NCBI gene;Acc:697928]	0.690141775	0.002776574	0.014990505
ENSMMUG00000018531	peptidylprolyl isomerase like 2 [Source:VGNC Symbol;Acc:VGNC:76239]	0.572525407	0.005461744	0.02558988
ENSMMUG00000020384	synaptosome associated protein 29 [Source:VGNC Symbol;Acc:VGNC:77664]	-	-	-
ENSMMUG000000049130		0.789488448	0.00758177	0.033223888
ENSMMUG000000063914		1.832020106	1.37E-07	3.98E-06
ENSMMUG000000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]	2.030458549	1.98E-09	1.24E-07
ENSMMUG00000017171	scavenger receptor class F member 2 [Source:VGNC Symbol;Acc:VGNC:77058]	1.898509521	3.70E-05	0.000436281
ENSMMUG000000062236		-	-	-
ENSMMUG00000000560	DiGeorge syndrome critical region gene 6 like [Source:NCBI gene;Acc:693512]	1.267660862	0.011000838	0.044282544
ENSMMUG00000009650	HIR histone cell cycle regulation defective homolog A (S. cerevisiae) [Source:NCBI gene;Acc:719142]	1.972361239	8.26E-11	8.88E-09
ENSMMUG00000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]	1.922337098	3.56E-06	6.17E-05
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	-	-	-
ENSMMUG00000021476		0.383594951	0.003884224	0.019550393
ENSMMUG000000058916		2.836064589	2.11E-11	2.77E-09
ENSMMUG00000021477	ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]	2.432353502	1.96E-07	5.42E-06
ENSMMUG00000059302	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.700877978	7.95E-05	0.000825429
ENSMMUG00000006668	tubulin alpha-3 chain [Source:NCBI gene;Acc:707215]	2.557055769	1.99E-06	3.78E-05
ENSMMUG000000054724		2.772441506	3.48E-05	0.000415679
ENSMMUG00000009953	ninein like [Source:VGNC Symbol;Acc:VGNC:75273]	1.432460326	0.002186342	0.012390226
ENSMMUG00000002397	GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]	-	-	-
ENSMMUG000000059374	abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]	0.966888544	0.007303715	0.032233498
ENSMMUG00000009199	glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]	0.947006018	0.012927444	0.049995342
ENSMMUG00000049391		1.217179322	0.00011413	0.00111023
ENSMMUG00000016815	somatostatin receptor 4 [Source:VGNC Symbol;Acc:VGNC:77895]	1.419965729	4.21E-06	7.04E-05
ENSMMUG00000056728	NK2 homeobox 2 [Source:NCBI gene;Acc:701424]	1.505463954	0.001094777	0.007101637
ENSMMUG00000042668	cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]	1.082648714	0.000305605	0.002477994
ENSMMUG0000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]	1.185806289	0.000136166	0.001287158
ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]	2.215037158	0.000426801	0.003269128
		0.897982393	0.000291972	0.002388297
		-	-	-
		3.609041106	0.008685974	0.036942374
		1.013504735	0.001690611	0.010174958
		-	-	-
		1.418142644	2.87E-05	0.000353548
		-	-	-
		1.218890823	0.000129501	0.001233011

ENSMMUG00000031166	McKusick-Kaufman syndrome [Source:NCBI gene;Acc:718547]	3.662443218	0.00172885	0.010328629
ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]	1.846981739	0.008418066	0.036038634
ENSMMUG00000015923	ankyrin repeat and EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69615]	-	-	-
ENSMMUG00000055897		1.507364829	2.34E-05	0.000297642
ENSMMUG00000057687		2.03147723	2.34E-10	2.11E-08
ENSMMUG00000064554	leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]	1.849164745	2.17E-08	8.80E-07
ENSMMUG00000013740	minichromosome maintenance 8 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:74516]	1.285166078	0.011527377	0.045932923
ENSMMUG00000056093	shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]	1.600752162	0.004697983	0.022722932
ENSMMUG00000064391		1.354651872	5.28E-07	1.26E-05
ENSMMUG00000013261	CDP-diacylglycerol synthase 2 [Source:VGNC Symbol;Acc:VGNC:70995]	1.342486734	9.48E-07	2.05E-05
ENSMMUG00000020005		-2.1499831	0.00025082	0.002111387
ENSMMUG00000020912	solute carrier family 23 member 2 [Source:NCBI gene;Acc:717939]	-	-	-
ENSMMUG00000017150	mitochondrial antiviral signaling protein [Source:VGNC Symbol;Acc:VGNC:74609]	0.960968274	0.000452242	0.003423665
ENSMMUG00000022070	sialic acid binding Ig like lectin 1 [Source:VGNC Symbol;Acc:VGNC:77220]	0.815183005	0.012373296	0.048458848
ENSMMUG00000063747		1.007852001	0.002731307	0.014789083
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	0.568575536	0.003900619	0.019602572
ENSMMUG0000002982	FAST kinase domains 5 [Source:NCBI gene;Acc:100498658]	-	-	-
ENSMMUG00000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	0.877400184	0.010841378	0.043721847
ENSMMUG00000021332	carboxypeptidase X, M14 family member 1 [Source:VGNC Symbol;Acc:VGNC:71413]	0.867680892	0.001453142	0.008991231
ENSMMUG00000064862		0.668199135	0.008171413	0.035202847
ENSMMUG00000021331	EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]	1.80905133	0.000137181	0.001291942
ENSMMUG00000010054	zinc finger protein 343 [Source:NCBI gene;Acc:716613]	-	-	-
ENSMMUG00000010050	small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]	6.232689201	2.18E-06	4.08E-05
ENSMMUG00000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	4.599891766	0.001860022	0.010936458
ENSMMUG00000047879	family with sequence similarity 110 member A [Source:NCBI gene;Acc:717055]	4.005547586	5.42E-05	0.000596343
ENSMMUG00000021670	solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]	4.174714162	0.002176364	0.012355209
ENSMMUG00000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	1.244046193	0.009892363	0.040948464
ENSMMUG00000031224	casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]	1.496398377	0.001464665	0.009049612
ENSMMUG0000004461	TBC1 domain family member 20 [Source:VGNC Symbol;Acc:VGNC:78132]	3.408829692	0.000103604	0.001023751
ENSMMUG00000026836	Y RNA [Source:RFAM;Acc:RF00019]	1.237237034	5.43E-06	8.75E-05
ENSMMUG00000012601	RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]	2.287026168	1.25E-05	0.000176775
ENSMMUG00000012599	neurensin 2 [Source:VGNC Symbol;Acc:VGNC:75411]	0.967844139	0.000752802	0.005238602
		1.028887689	6.75E-09	3.29E-07
		-	-	-
		1.481688833	0.004849381	0.02328204
		-	-	-
		1.098102596	0.000678055	0.004805876
		2.521789078	0.000894036	0.006024784

ENSMMUG00000046141	defensin beta 123 [Source:NCBI gene;Acc:619504]	1.726303389	3.03E-05	0.000370283
ENSMMUG00000005116	defensin beta 124 [Source:VGNC Symbol;Acc:VGNC:71655]	1.694482232	9.69E-07	2.06E-05
ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	0.587076726	0.001148598	0.007402706
ENSMMUG00000051112	p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]	1.169195298	0.005119715	0.024346256
ENSMMUG00000020669	BPI fold containing family B member 6 [Source:VGNC Symbol;Acc:VGNC:70327]	1.161842813	9.91E-05	0.000989413
ENSMMUG00000063752	phosphatidylinositol glycan anchor biosynthesis class U [Source:NCBI gene;Acc:707317]	2.596992488	0.009392006	0.039391304
ENSMMUG00000017931	gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]	1.296379195	0.004496941	0.02191675
ENSMMUG00000017932	acyl-CoA synthetase short chain family member 2 [Source:VGNC Symbol;Acc:VGNC:69410]	2.321433587	0.006569987	0.029567217
ENSMMUG00000000229	transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]	-2.23904673	0.001173907	0.00754054
ENSMMUG00000018208	eukaryotic translation initiation factor 6 [Source:NCBI gene;Acc:709602]	1.868486407	0.009203546	0.038700717
ENSMMUG00000057979	growth differentiation factor 5 [Source:NCBI gene;Acc:705432]	0.734220091	5.39E-06	8.71E-05
ENSMMUG00000031274	GDF5 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:33435]	0.865150738	0.003106437	0.016417035
ENSMMUG00000031284	RNA binding motif protein 39 [Source:NCBI gene;Acc:704198]	3.797975181	7.14E-05	0.00075449
ENSMMUG00000010633	PHD finger protein 20 [Source:VGNC Symbol;Acc:VGNC:75807]	0.826377685	0.000406564	0.003136283
ENSMMUG00000020691	AAR2 splicing factor [Source:VGNC Symbol;Acc:VGNC:69412]	0.864295924	0.005018465	0.023939009
ENSMMUG00000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	1.71148512	2.86E-06	5.13E-05
ENSMMUG00000059897	myosin light chain 9 [Source:NCBI gene;Acc:709784]	1.439486314	0.001468359	0.00906813
ENSMMUG00000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	1.561546085	3.05E-07	7.85E-06
ENSMMUG00000056945		1.487464977	1.80E-07	5.04E-06
ENSMMUG00000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	1.256842788	0.00023176	0.001986994
ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	-1.47934017	7.00E-12	1.17E-09
ENSMMUG00000018924	regulation of nuclear pre-mRNA domain containing 1B [Source:VGNC Symbol;Acc:VGNC:77024]	0.751274006	0.010618487	0.043063311
ENSMMUG00000020173	bactericidal permeability increasing protein [Source:VGNC Symbol;Acc:VGNC:70277]	1.087676962	2.41E-05	0.000305659
ENSMMUG00000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	2.528529696	4.39E-09	2.30E-07
ENSMMUG00000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	2.222011287	4.33E-07	1.06E-05
ENSMMUG00000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	1.656593442	1.19E-06	2.45E-05
ENSMMUG00000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	1.34725041	3.24E-05	0.000391732
ENSMMUG00000022865	junctionophilin 2 [Source:NCBI gene;Acc:694158]	4.424116033	3.58E-05	0.000424562
ENSMMUG00000006464	hepatocyte nuclear factor 4 alpha [Source:VGNC Symbol;Acc:VGNC:73492]	0.763863187	0.008003874	0.034695301
ENSMMUG000000063590		3.591753978	8.09E-06	0.000120998
ENSMMUG00000003402	matrilin 4 [Source:NCBI gene;Acc:717652]	3.265828825	1.55E-06	3.05E-05
ENSMMUG00000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	1.678222321	5.85E-11	6.78E-09
ENSMMUG00000042855	zinc finger SWIM-type containing 1 [Source:NCBI gene;Acc:717180]	3.046075951	2.77E-08	1.05E-06
ENSMMUG00000009957	spermatogenesis associated 25 [Source:VGNC Symbol;Acc:VGNC:77928]	3.688753158	3.58E-08	1.29E-06

ENSMMUG0000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	2.835685433	2.57E-14	8.47E-12
ENSMMUG00000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	1.904189408	0.001119679	0.007248653
ENSMMUG00000012029	sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]	1.034016753	0.001707492	0.010238652
ENSMMUG00000038447		0.869861862	0.007475097	0.032878292
ENSMMUG00000057808		1.015671523	0.006826506	0.030500015
ENSMMUG00000058754		3.789924042	0.002962608	0.015791674
ENSMMUG00000002124	beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]	1.853144263	0.000470602	0.003529788
ENSMMUG00000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	1.270162754	6.69E-07	1.55E-05
ENSMMUG00000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	1.785854812	2.61E-09	1.52E-07
ENSMMUG00000065129		2.440679767	0.001020251	0.006698323
ENSMMUG00000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	2.468177765	3.08E-11	3.74E-09
ENSMMUG00000002759	dolichyl-phosphate mannosyltransferase subunit 1, catalytic [Source:VGNC Symbol;Acc:VGNC:71975]	2.151486665	0.006557573	0.029531787
ENSMMUG00000000918	ATPase phospholipid transporting 9A (putative) [Source:VGNC Symbol;Acc:VGNC:84529]	1.418086335	0.007024788	0.031235691
ENSMMUG00000013035	teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]	0.843866315	0.011478529	0.045780356
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	-1.28742436	0.000148739	0.001379836
ENSMMUG00000057302		1.971632295	0.001760098	0.01047202
ENSMMUG00000031391	RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]	2.880972461	6.77E-08	2.19E-06
ENSMMUG00000022589	prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]	1.285587782	0.000103167	0.001020374
ENSMMUG00000004560	crystallin lambda 1 [Source:VGNC Symbol;Acc:VGNC:71433]	0.822388611	0.00194059	0.011333327
ENSMMUG00000016475	M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]	0.734906224	0.00017219	0.001549828
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	1.018517806	6.79E-07	1.56E-05
ENSMMUG00000008520	ATPase phospholipid transporting 8A2 [Source:VGNC Symbol;Acc:VGNC:70062]	0.877811067	3.94E-05	0.000456888
ENSMMUG00000058755	ribosomal protein L21 [Source:NCBI gene;Acc:710306]	3.539163103	5.03E-10	4.09E-08
ENSMMUG00000058608		2.757020229	0.011929612	0.047145711
ENSMMUG00000058786	ligand of numb-protein X 2 [Source:NCBI gene;Acc:710660]	0.722740365	0.00598863	0.027499619
ENSMMUG00000008658	microtubule associated scaffold protein 2 [Source:NCBI gene;Acc:721776]	0.775974232	0.00523324	0.024696487
ENSMMUG00000050015	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.714243378	0.005521067	0.025811285
ENSMMUG00000013707	heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]	1.159427042	6.01E-06	9.45E-05
ENSMMUG00000013713	beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]	3.226479624	1.92E-08	8.05E-07
ENSMMUG00000003898	relaxin family peptide receptor 2 [Source:VGNC Symbol;Acc:VGNC:77039]	1.207945513	0.000710489	0.004997633
ENSMMUG00000038997	zygote arrest 1 like [Source:NCBI gene;Acc:100427970]	2.568158176	0.00122313	0.007805707

ENSMMUG0000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	1.88753993	8.36E-16	4.03E-13
ENSMMUG00000055811		1.820731533	7.97E-08	2.51E-06
ENSMMUG0000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	1.582284521	1.14E-12	2.40E-10
ENSMMUG00000025050	Y RNA [Source:RFAM;Acc:RF00019]	1.78275675	0.010566775	0.042947334
ENSMMUG00000051911		-	-	-
ENSMMUG00000058110		0.897009117	0.000779436	0.005360839
		1.803436665	0.001075699	0.00699877
ENSMMUG00000019831	neurobeachin [Source:NCBI gene;Acc:714386]	-	-	-
		2.208842622	1.33E-06	2.70E-05
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	2.784244584	9.14E-25	2.38E-21
ENSMMUG00000060579		-	-	-
		2.111621163	0.000730532	0.005113723
ENSMMUG00000001172	spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]	-	-	-
		2.919829379	7.26E-07	1.65E-05
ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	-	-	-
		0.741044454	0.000578134	0.004214808
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	-	-	-
		0.865862111	0.000693257	0.004894951
ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	-	-	-
		0.708404818	0.003466921	0.017871891
ENSMMUG00000052676		-	-	-
		1.027629929	1.51E-06	2.99E-05
ENSMMUG00000017978	mitochondrial translation release factor 1 [Source:VGNC Symbol;Acc:VGNC:82191]	-	-	-
		0.639070912	0.002174528	0.012350182
ENSMMUG00000002330	ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]	-	-	-
		2.491886511	3.22E-11	3.88E-09
ENSMMUG00000012636	potassium channel tetramerization domain containing 4 [Source:VGNC Symbol;Acc:VGNC:73892]	-	-	-
ENSMMUG00000059778		-1.16673276	0.003717463	0.018901219
		1.914360449	0.001753531	0.010451734
ENSMMUG00000055718		-	-	-
ENSMMUG00000053191		0.824393604	0.008743558	0.037126578
		0.618349356	0.011884422	0.047052905
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	-	-	-
		0.948389954	1.22E-05	0.000172441
ENSMMUG00000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	-	-	-
		1.085046268	8.69E-06	0.000128335
ENSMMUG00000053708	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	-	-	-
		1.355413719	0.002071183	0.011929943
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	-	-	-
ENSMMUG00000016404	chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]	0.990205513	7.51E-05	0.000786932
		3.225515713	0.000177112	0.001584266
ENSMMUG00000002657		-	-	-
ENSMMUG00000055156	olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]	1.499733135	9.50E-05	0.000956
ENSMMUG00000046375		0.888481118	0.000930066	0.0062033
		1.839321546	0.00043875	0.003340973
ENSMMUG00000061846		-	-	-
		0.496058974	0.0094442	0.039546447
ENSMMUG00000059231		-	-	-
		0.463949974	0.004905347	0.023498691
ENSMMUG00000054625		-	-	-
		0.576808508	0.007018931	0.031230999
ENSMMUG00000060359		-	-	-
		3.188290669	0.001831688	0.010828605

ENSMMUG00000021807	ATP binding cassette subfamily C member 4 [Source:VGNC Symbol;Acc:VGNC:69573]	1.625722277	0.000100123	0.000996327
ENSMMUG00000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	0.86696455	9.07E-06	0.000133146
ENSMMUG00000019556	transmembrane 9 superfamily member 2 [Source:VGNC Symbol;Acc:VGNC:78568]	0.492436418	0.010473014	0.042672937
ENSMMUG00000052642	protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]	-2.88250113	1.35E-06	2.74E-05
ENSMMUG00000053838		0.566334574	0.001380627	0.008628754
ENSMMUG00000055924		-2.73482608	0.001891523	0.011096593
ENSMMUG00000013138	Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]	0.762444936	0.004222686	0.02081101
ENSMMUG00000056306		1.132395706	4.83E-05	0.000542081
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]	1.775779607	2.18E-09	1.33E-07
ENSMMUG00000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]	1.619207566	2.53E-08	9.90E-07
ENSMMUG00000019297	cullin 4A [Source:VGNC Symbol;Acc:VGNC:71568]	0.989019649	0.008194641	0.035267871
ENSMMUG00000009790	lysosomal associated membrane protein 1 [Source:VGNC Symbol;Acc:VGNC:74234]	1.432761513	0.005393282	0.025332258
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]	0.949299982	0.005421803	0.025457027
ENSMMUG00000054800	chromosome 17 C13orf46 homolog [Source:NCBI gene;Acc:106994405]	1.479230842	1.66E-06	3.21E-05
ENSMMUG00000055241		0.79560297	0.000767805	0.005311645
ENSMMUG00000040268	phosphatidylinositol transfer protein alpha [Source:NCBI gene;Acc:721228]	0.918477051	0.00803703	0.034808394
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	1.202587544	0.000300191	0.002444766
ENSMMUG00000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]	1.531299028	0.000332309	0.002661337
ENSMMUG00000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]	0.982108705	0.000120921	0.001161517
ENSMMUG00000002382	serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]	1.373676559	4.31E-07	1.06E-05
ENSMMUG00000052847		0.894280742	0.00208059	0.011967964
ENSMMUG00000048710	HIC ZBTB transcriptional repressor 1 [Source:NCBI gene;Acc:721284]	2.021310024	0.000817016	0.005575084
ENSMMUG00000030389		1.372116679	0.001182847	0.007585851
ENSMMUG00000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]	1.237373436	8.13E-06	0.000121231
ENSMMUG00000055048		0.980864136	0.000107237	0.001053418
ENSMMUG00000057632		2.603894727	2.75E-06	4.98E-05
ENSMMUG00000019180	zinc finger ZZ-type and EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79769]	-0.58206186	0.001770378	0.010523553
ENSMMUG00000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]	0.921319756	0.001072452	0.006981136
ENSMMUG00000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]	1.456399515	1.90E-05	0.000250128
ENSMMUG00000017654	arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]	1.864242421	0.002123676	0.012146232
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]	0.815676563	0.00057176	0.004180054
ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]	0.801695689	3.78E-05	0.000443662
ENSMMUG00000002404	misshapen like kinase 1 [Source:VGNC Symbol;Acc:VGNC:81475]	1.644515739	3.62E-06	6.24E-05
ENSMMUG00000002409	cholinergic receptor nicotinic epsilon subunit [Source:VGNC Symbol;Acc:VGNC:71053]	1.331812785	0.003988793	0.019991618
ENSMMUG00000010467	nucleoporin 88 [Source:VGNC Symbol;Acc:VGNC:75562]	-1.21934943	0.003098395	0.016394518

ENSMMUG00000046195	MIS12 kinetochore complex component [Source:NCBI gene;Acc:712202]	-	0.716334309	0.001753284	0.010451734
ENSMMUG0000003247	asialoglycoprotein receptor 1 [Source:NCBI gene;Acc:721786]	-	1.694513958	0.004951814	0.023651595
ENSMMUG00000010536	discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]	-	2.424925663	1.10E-06	2.30E-05
ENSMMUG00000010543	PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]	-	4.097238491	2.62E-05	0.000327332
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]	-	0.730049844	8.47E-05	0.000871555
ENSMMUG00000009709	transmembrane protein 102 [Source:NCBI gene;Acc:715461]	-	1.128480112	0.001798332	0.010660486
ENSMMUG00000061498	fibroblast growth factor 11 [Source:NCBI gene;Acc:715564]	-	1.084421194	0.000413404	0.003187157
ENSMMUG00000013501	CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]	-	1.914679431	6.58E-05	0.000703045
ENSMMUG00000013503	mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]	-	1.512530269	0.000376336	0.002950346
ENSMMUG00000057228	SRY-box transcription factor 15 [Source:NCBI gene;Acc:106993880]	-	2.977104383	0.00455437	0.022143603
ENSMMUG00000013513	sex hormone binding globulin [Source:VGNC Symbol;Acc:VGNC:77208]	-	0.820908891	0.008500632	0.036344253
ENSMMUG00000044486	ATPase Na ⁺ /K ⁺ transporting subunit beta 2 [Source:NCBI gene;Acc:716093]	-	0.427421529	0.01101055	0.044303254
ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]	-	2.006714258	1.34E-10	1.36E-08
ENSMMUG00000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]	-	0.879908831	0.000179696	0.001602972
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]	-	1.211172651	9.52E-07	2.05E-05
ENSMMUG00000021938	nudE neurodevelopment protein 1 like 1 [Source:VGNC Symbol;Acc:VGNC:74982]	-	0.708236859	0.009537823	0.039835879
ENSMMUG00000003424	coiled-coil domain containing 42 [Source:VGNC Symbol;Acc:VGNC:70872]	-	2.000488212	0.003262289	0.017074176
ENSMMUG00000051625		-	2.489535209	0.002328516	0.012982861
ENSMMUG00000055290	netrin 1 [Source:NCBI gene;Acc:717645]	-	0.761100371	0.000227398	0.001958637
ENSMMUG00000064405	myosin-8 [Source:NCBI gene;Acc:717865]	-	1.649134882	0.000656427	0.004685782
ENSMMUG00000009771	myosin heavy chain 4 [Source:VGNC Symbol;Acc:VGNC:75100]	-	1.435297317	2.47E-05	0.000311632
ENSMMUG00000051001		-	3.292996979	0.004071621	0.020233825
ENSMMUG00000060547	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.824374939	0.012492558	0.048821577
ENSMMUG00000016723	zinc finger protein 287 [Source:NCBI gene;Acc:695524]	-	1.504039767	0.002007994	0.011664124
ENSMMUG00000004896	centromere protein V [Source:NCBI gene;Acc:700414]	-	0.604710139	0.00753214	0.033068159
ENSMMUG00000050252	CMT1A duplicated region transcript 15 protein-like protein [Source:NCBI gene;Acc:106993910]	-	0.56199326	0.006553055	0.029521659
ENSMMUG00000050263	TBC1 domain family member 26-like [Source:NCBI gene;Acc:100426631]	-	0.820799725	0.011549878	0.046008488
ENSMMUG00000013345	folliculin [Source:NCBI gene;Acc:698082]	-	4.557839906	9.22E-06	0.000134455
ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	-	2.929027755	8.94E-07	1.95E-05
ENSMMUG00000038569	5',3'-nucleotidase, mitochondrial [Source:NCBI gene;Acc:698591]	-	1.212162109	0.000768648	0.005311645
ENSMMUG00000062853		-	1.075198025	0.010034173	0.041416838

ENSMMUG0000006491	mediator complex subunit 9 [Source:VGNC Symbol;Acc:VGNC:74577]	-	1.302677989	3.79E-05	0.000444816
ENSMMUG0000006493	ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]	-	0.730529626	0.000795735	0.005462031
ENSMMUG0000003349	target of myb1 like 2 membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:78617]	-	1.977562963	0.009064034	0.038274942
ENSMMUG0000003657	ATP synthase mitochondrial F1 complex assembly factor 2 [Source:VGNC Symbol;Acc:VGNC:70098]	-	2.775530796	0.001308368	0.008236509
ENSMMUG00000021409	developmentally regulated GTP binding protein 2 [Source:VGNC Symbol;Acc:VGNC:71993]	-	2.448009759	2.74E-08	1.05E-06
ENSMMUG00000005323	phosphoribosyl pyrophosphate synthetase associated protein 2 [Source:VGNC Symbol;Acc:VGNC:76430]	-	0.532595064	0.002501247	0.013743651
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	-	-2.7211977	8.41E-11	8.90E-09
ENSMMUG00000051286		-	1.714181956	8.05E-09	3.84E-07
ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	-	2.203497535	6.97E-09	3.38E-07
ENSMMUG00000018581		-	1.665161821	0.003173769	0.016711755
ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	-	1.067272373	0.000768727	0.005311645
ENSMMUG00000054784		-	0.681239812	0.011361575	0.045438186
ENSMMUG00000051341		-	1.109142072	0.001024015	0.006712874
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	-	1.038036949	0.000245977	0.002084588
ENSMMUG00000063312		-	1.049349484	0.001296698	0.008174919
ENSMMUG0000007293	RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]	-	0.746594502	0.007391047	0.03256367
ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]	-	1.352423599	9.33E-06	0.000135617
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	-	1.695744449	1.63E-08	6.97E-07
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	-	1.727098052	6.81E-10	5.24E-08
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	-	1.746095035	1.62E-10	1.59E-08
ENSMMUG00000009938	myosin XVIII A [Source:VGNC Symbol;Acc:VGNC:75058]	-	0.648051141	0.003730714	0.018953777
ENSMMUG00000012856	nuclear FMR1 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75422]	-	2.146246239	0.010352851	0.042357091
ENSMMUG00000003866	tumor protein p53 inducible protein 13 [Source:VGNC Symbol;Acc:VGNC:79474]	-	1.913827714	0.011830003	0.046923153
ENSMMUG00000059292		-	1.236980197	1.93E-06	3.68E-05
ENSMMUG00000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	-	1.568928318	4.37E-05	0.000498483
ENSMMUG00000011413	acid sensing ion channel subunit 2 [Source:VGNC Symbol;Acc:VGNC:70241]	-	3.002702837	5.13E-09	2.63E-07
ENSMMUG00000002324		-	1.426003434	8.15E-07	1.81E-05
ENSMMUG00000006399	chaperonin containing TCP1 subunit 6B [Source:VGNC Symbol;Acc:VGNC:70748]	-	0.630404123	3.86E-05	0.000448967
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	-	4.197214684	7.22E-09	3.49E-07
ENSMMUG00000005170	unc-45 myosin chaperone B [Source:VGNC Symbol;Acc:VGNC:78954]	-	1.131108364	0.000775946	0.005343919
ENSMMUG00000037555	schlafen family member 11 [Source:NCBI gene;Acc:715511]	-	2.03599668	0.001721706	0.010300141
ENSMMUG00000031736		-	3.692329061	0.001146985	0.007399647
ENSMMUG00000026432	small nucleolar RNA, C/D box 7 [Source:HGNC Symbol;Acc:HGNC:32704]	-	3.793638979	0.002471156	0.013607051

ENSMMUG00000050758		-	2.017631408	0.003272041	0.017102269
ENSMMUG00000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	-	1.224102645	4.70E-08	1.62E-06
ENSMMUG00000061594		-	-2.37178997	0.000178028	0.001590267
ENSMMUG00000052786		-	3.142994478	3.51E-05	0.000418921
ENSMMUG00000000620	dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]	-	1.291187487	0.002815693	0.015145122
ENSMMUG00000000618	gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]	-	1.501805241	4.27E-05	0.000490232
ENSMMUG00000051190	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.693542715	0.00466728	0.022599644
ENSMMUG00000007920	myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]	-	0.940727556	0.001575658	0.009630174
ENSMMUG00000007923	phosphatidylinositol glycan anchor biosynthesis class W [Source:VGNC Symbol;Acc:VGNC:75850]	-	-1.35882339	9.56E-05	0.000960055
ENSMMUG00000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	-	0.811524205	9.15E-05	0.000930144
ENSMMUG00000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]	-	0.840810439	0.000570965	0.004176584
ENSMMUG00000008423	septin 4 [Source:NCBI gene;Acc:714724]	-	1.005237722	1.21E-09	8.25E-08
ENSMMUG00000046171	myotubularin related protein 4 [Source:NCBI gene;Acc:714621]	-	-0.57246197	0.000549863	0.004049558
ENSMMUG00000004184	heat shock transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:73446]	-	0.803861754	0.000519175	0.003851902
ENSMMUG00000056064	serine and arginine rich splicing factor 1 [Source:NCBI gene;Acc:713958]	-	0.560398341	0.001199876	0.007672365
ENSMMUG00000004723	vascular endothelial zinc finger 1 [Source:NCBI gene;Acc:713848]	-	0.537326835	0.002083474	0.011968934
ENSMMUG00000012644	A-kinase anchoring protein 1 [Source:VGNC Symbol;Acc:VGNC:69763]	-	-1.27322095	3.31E-05	0.000398895
ENSMMUG00000002269	serine carboxypeptidase 1 [Source:VGNC Symbol;Acc:VGNC:82232]	-	-0.57577381	0.010207166	0.041971039
ENSMMUG00000006068	transmembrane protein 100 [Source:VGNC Symbol;Acc:VGNC:79521]	-	0.862093185	4.66E-05	0.000525751
ENSMMUG00000050544		-	1.161610045	0.007775016	0.033888023
ENSMMUG00000056602		-	1.884310941	0.001384976	0.008647623
ENSMMUG00000010550	target of myb1 like 1 membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:78616]	-	0.708311196	0.001273787	0.008053903
ENSMMUG00000062178	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.847947091	0.000991509	0.006549296
ENSMMUG00000001940	NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]	-	1.782234231	1.53E-05	0.000208027
ENSMMUG00000054539		-	1.396731509	0.006757991	0.030248268
ENSMMUG00000022741	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]	-	1.200150247	9.32E-06	0.000135587
ENSMMUG00000003414	ATP binding cassette subfamily C member 3 [Source:VGNC Symbol;Acc:VGNC:69572]	-	0.973610603	3.75E-06	6.42E-05
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	-	1.34824918	5.52E-09	2.79E-07
ENSMMUG00000017252	spermatogenesis associated 20 [Source:VGNC Symbol;Acc:VGNC:77993]	-	1.66963408	1.37E-13	3.56E-11

ENSMMUG00000017242	MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]	1.911550723	2.66E-05	0.000332574
ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	3.858518422	2.49E-21	3.60E-18
ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	-1.84272432	9.67E-07	2.06E-05
ENSMMUG00000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	2.302412704	0.002867319	0.015378291
ENSMMUG00000014685	pyruvate dehydrogenase kinase 2 [Source:VGNC Symbol;Acc:VGNC:75933]	2.586421211	8.93E-05	0.000911136
ENSMMUG00000000153	integrin subunit alpha 3 [Source:VGNC Symbol;Acc:VGNC:73777]	2.060779292	0.009932637	0.041062897
ENSMMUG00000012178	calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]	1.06846331	0.000247108	0.002090725
ENSMMUG00000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	1.336861339	2.67E-07	7.04E-06
ENSMMUG00000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	1.209662463	3.00E-07	7.73E-06
ENSMMUG00000055122		0.917077638	0.000220512	0.001914539
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	1.288656904	2.24E-07	6.10E-06
ENSMMUG00000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	1.141539699	3.86E-05	0.000448967
ENSMMUG00000055324	homeobox B7 [Source:NCBI gene;Acc:697089]	1.001527517	5.45E-05	0.000598163
ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	1.459583252	9.67E-07	2.06E-05
ENSMMUG00000051420	homeobox B5 [Source:NCBI gene;Acc:696732]	1.473642734	5.40E-06	8.72E-05
ENSMMUG00000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]	0.989773649	3.56E-05	0.000423728
ENSMMUG00000050742	src kinase associated phosphoprotein 1 [Source:NCBI gene;Acc:697043]	0.633020846	4.08E-06	6.85E-05
ENSMMUG00000003325	pyridoxamine 5'-phosphate oxidase [Source:VGNC Symbol;Acc:VGNC:76141]	0.790988887	0.002972068	0.015822645
ENSMMUG00000004765	Sp2 transcription factor [Source:VGNC Symbol;Acc:VGNC:77845]	1.153079167	1.00E-05	0.000144563
ENSMMUG00000021486	secernin 2 [Source:NCBI gene;Acc:694571]	1.532241394	0.000975913	0.006472574
ENSMMUG00000057231	T-box transcription factor 21 [Source:NCBI gene;Acc:694044]	0.956930588	0.002893404	0.015511796
ENSMMUG00000019762	TBK1 binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78241]	1.332235892	0.000148741	0.001379836
ENSMMUG00000019760	karyopherin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:74203]	1.075528901	2.33E-10	2.11E-08
ENSMMUG00000004917	plexin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76087]	4.046903858	1.22E-09	8.28E-08
ENSMMUG00000050458		3.848658478	1.68E-13	4.20E-11
ENSMMUG00000056248		2.497279456	1.31E-06	2.68E-05
ENSMMUG00000063779		2.532440354	1.57E-06	3.06E-05
ENSMMUG00000000289	calcium voltage-gated channel auxiliary subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70509]	0.647853992	0.001546742	0.009480175
ENSMMUG00000030060	F-box and leucine rich repeat protein 20 [Source:VGNC Symbol;Acc:VGNC:81407]	0.444115885	0.005189873	0.024572073
ENSMMUG00000009132	mediator complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:74724]	0.860325344	0.003394355	0.017581435
ENSMMUG00000004587	gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]	2.233647989	0.004109235	0.020398743
ENSMMUG00000058758		2.342053514	0.001941999	0.011336463
ENSMMUG00000064723	gasdermin A [Source:NCBI gene;Acc:698841]	2.622454107	0.001181341	0.007579931
ENSMMUG00000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	0.469196946	0.012353004	0.048421692
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	0.59082905	0.000615332	0.00444118
ENSMMUG00000002931	thyroid hormone receptor alpha [Source:VGNC Symbol;Acc:VGNC:78349]	-0.83742019	0.005614684	0.026136211
ENSMMUG00000002933	nuclear receptor subfamily 1 group D member 1 [Source:VGNC Symbol;Acc:VGNC:75502]	0.995013477	0.000423411	0.003252739

ENSMMUG00000012486	retinoic acid receptor alpha [Source:VGNC Symbol;Acc:VGNC:76662]	1.441944906	0.006800644	0.030405353
ENSMMUG00000018653	keratin, type I cytoskeletal 19 [Source:NCBI gene;Acc:707129]	1.745373373	8.66E-08	2.67E-06
ENSMMUG00000063004	gastrin [Source:NCBI gene;Acc:707564]	1.978825097	0.001853011	0.010905095
ENSMMUG00000013048	junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]	0.933116541	1.32E-05	0.000184461
ENSMMUG00000021753	tetratricopeptide repeat domain 25 [Source:NCBI gene;Acc:708614]	1.36532697	0.001253301	0.007935944
ENSMMUG00000016114	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:VGNC Symbol;Acc:VGNC:71279]	1.630801237	0.000118131	0.001138931
ENSMMUG00000003894	zinc finger protein 385C [Source:NCBI gene;Acc:708928]	0.618927556	0.000463597	0.003486205
ENSMMUG00000049440	chromosome 16 C17orf113 homolog [Source:NCBI gene;Acc:106994045]	0.766214598	7.94E-06	0.000119189
ENSMMUG00000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	3.338391746	5.79E-18	4.70E-15
ENSMMUG00000010705	signal transducer and activator of transcription 5A [Source:NCBI gene;Acc:574129]	0.803164505	0.005084638	0.024197145
ENSMMUG00000052220	signal transducer and activator of transcription 3 [Source:VGNC Symbol;Acc:VGNC:77906]	0.845708105	0.00018095	0.001611945
ENSMMUG00000010707	signal transducer and activator of transcription 3 [Source:VGNC Symbol;Acc:VGNC:77906]	0.351589674	0.003450238	0.0178
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	2.08518318	3.70E-07	9.33E-06
ENSMMUG00000009884	hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]	1.944799383	2.88E-05	0.000354859
ENSMMUG00000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	1.967910738	3.81E-08	1.36E-06
ENSMMUG00000009887	MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]	1.99742456	9.59E-07	2.06E-05
ENSMMUG00000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	1.912773597	4.19E-08	1.46E-06
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	2.043215369	3.94E-08	1.39E-06
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	1.692798894	4.00E-07	9.94E-06
ENSMMUG00000006086	pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]	1.485196568	0.002089518	0.011987766
ENSMMUG00000006090	C-C motif chemokine receptor 10 [Source:VGNC Symbol;Acc:VGNC:82119]	1.708712642	0.005039597	0.024026759
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	1.892604096	8.35E-11	8.90E-09
ENSMMUG00000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	1.854768579	7.73E-08	2.45E-06
ENSMMUG00000056565	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.746510314	0.011448759	0.045689648
ENSMMUG00000058566		1.905028605	7.96E-10	5.92E-08
ENSMMUG00000052607		0.991655897	0.00013504	0.001279195
ENSMMUG00000019920	transmembrane and ubiquitin like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79715]	1.458636263	0.00595702	0.027396394
ENSMMUG00000019924	upstream binding transcription factor [Source:NCBI gene;Acc:711597]	0.666462002	0.000393378	0.003061037
ENSMMUG00000013983	RUN domain containing 3A [Source:VGNC Symbol;Acc:VGNC:77032]	0.641958122	0.000381859	0.00298865
ENSMMUG00000041006	family with sequence similarity 171 member A2 [Source:NCBI gene;Acc:712099]	0.597187928	0.002297742	0.012875671
ENSMMUG00000062273	dephospho-CoA kinase domain containing [Source:NCBI gene;Acc:715841]	1.770375031	6.70E-05	0.000713589
ENSMMUG00000060665		1.780282398	9.66E-07	2.06E-05

ENSMMUG00000054246		1.998301574	0.005384935	0.025304582
ENSMMUG00000021932	Rho GTPase activating protein 27 [Source:VGNC Symbol;Acc:VGNC:69935]	1.349850718	0.012828013	0.049731629
ENSMMUG00000008459	pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]	1.308947922	8.40E-05	0.000867293
ENSMMUG00000008199	leucine-rich repeat-containing protein 37A [Source:NCBI gene;Acc:714675]	1.299530016	0.003532838	0.018139792
ENSMMUG00000057840	leucine-rich repeat-containing protein 37A3 [Source:NCBI gene;Acc:715030]	1.702450744	0.000651806	0.00465562
ENSMMUG00000005548	N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]	0.603540227	0.000752633	0.005238602
ENSMMUG00000057209		0.534026675	0.005599512	0.026090547
ENSMMUG00000004122	microtubule associated protein tau [Source:NCBI gene;Acc:574327]	1.470425641	7.84E-05	0.000815971
ENSMMUG00000063877	leucine-rich repeat-containing protein 37A2 [Source:NCBI gene;Acc:716147]	0.497371346	8.14E-06	0.000121256
ENSMMUG00000050181		0.544492989	0.004650092	0.022533195
ENSMMUG00000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]	0.533048107	0.000556745	0.004088272
ENSMMUG00000002168	membrane associated ring-CH-type finger 10 [Source:VGNC Symbol;Acc:VGNC:74593]	2.209989111	0.007153787	0.031690105
ENSMMUG00000015185	endoplasmic reticulum to nucleus signaling 1 [Source:VGNC Symbol;Acc:VGNC:72429]	0.520353352	0.012701775	0.04941066
ENSMMUG00000011809	platelet and endothelial cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:75938]	1.052237089	0.000422279	0.00324596
ENSMMUG00000006317	mast cell immunoglobulin like receptor 1 [Source:VGNC Symbol;Acc:VGNC:74843]	1.170016497	0.004470999	0.021836206
ENSMMUG00000009459	centrosomal protein 95 [Source:VGNC Symbol;Acc:VGNC:71095]	0.837092951	0.002023146	0.011715513
ENSMMUG00000063689		0.982501471	0.011647023	0.046338692
ENSMMUG00000009461	SMAD specific E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77727]	0.810588205	0.005385444	0.025304582
ENSMMUG00000060767		3.115773188	1.63E-09	1.05E-07
ENSMMUG00000060015	axin 2 [Source:NCBI gene;Acc:718566]	0.444948655	0.003350002	0.01740021
ENSMMUG00000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]	2.398664405	2.02E-08	8.40E-07
ENSMMUG00000057157		2.471073887	1.18E-08	5.26E-07
ENSMMUG00000063817	SRY-box transcription factor 9 [Source:NCBI gene;Acc:574208]	0.351395884	0.009678758	0.04029511
ENSMMUG00000054673		2.123197518	0.006105599	0.027931559
ENSMMUG00000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]	1.04969781	3.57E-05	0.000423961
ENSMMUG00000049948		1.460700954	2.07E-05	0.000269259
ENSMMUG00000062704	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.521986478	0.005053392	0.0240837
ENSMMUG00000049403		0.937828613	0.000677198	0.004802416
ENSMMUG00000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]	0.918780011	0.002320269	0.012962258
ENSMMUG00000058592		1.022191062	0.00172471	0.010313368
ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]	1.541813996	0.000675751	0.004794771
ENSMMUG00000005737	SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]	2.729427924	2.17E-05	0.000279201
ENSMMUG00000005738	N-acetyltransferase 9 (putative) [Source:NCBI gene;Acc:699085]	3.792702832	0.009190736	0.038659351

ENSMMUG00000054593	USH1 protein network component sans [Source:NCBI gene;Acc:704494]	-	0.602467282	0.004710861	0.022776748
ENSMMUG00000063153	cerebellar degeneration related protein 2 like [Source:NCBI gene;Acc:700082]	3.311956036	2.83E-06	5.09E-05	
ENSMMUG00000058142		-1.32305368	2.30E-07	6.25E-06	
ENSMMUG00000022120	transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]	-	1.218648953	2.84E-06	5.10E-05
ENSMMUG00000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]	-	1.488171426	0.000211767	0.001847248
ENSMMUG00000022123	tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]	-	1.014314437	0.000277144	0.002290047
ENSMMUG00000001228	LLGL scribble cell polarity complex component 2 [Source:NCBI gene;Acc:706973]	-	0.783935875	2.28E-05	0.000291161
ENSMMUG00000063604	small integral membrane protein 5 [Source:NCBI gene;Acc:703547]	1.255204768	0.012468023	0.048769656	
ENSMMUG00000013646	unk zinc finger [Source:VGNC Symbol;Acc:VGNC:79803]	0.815018206	0.006589314	0.029634645	
ENSMMUG00000002822	unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]	1.111215935	0.000805774	0.005509937	
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]	1.072582388	0.000176932	0.001583743	
ENSMMUG00000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	1.461153629	0.000557855	0.004089886	
ENSMMUG00000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	1.527878852	0.000391568	0.00304954	
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	1.880386146	4.31E-12	7.78E-10	
ENSMMUG00000046918		2.009385211	0.000977501	0.006474706	
ENSMMUG00000055379		2.267161329	2.76E-10	2.45E-08	
ENSMMUG00000053937		2.467468425	4.48E-10	3.73E-08	
ENSMMUG00000009504	C1q and TNF related 1 [Source:VGNC Symbol;Acc:VGNC:70311]	0.820729486	4.31E-05	0.000493687	
ENSMMUG00000023027	endo-beta-N-acetylglucosaminidase [Source:VGNC Symbol;Acc:VGNC:72099]	-	0.989337947	3.34E-06	5.87E-05
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]	2.033286435	4.31E-06	7.18E-05	
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]	0.855275212	0.000282338	0.002324106	
ENSMMUG00000005455	ring finger protein 213 [Source:VGNC Symbol;Acc:VGNC:76734]	1.285516676	1.93E-06	3.68E-05	
ENSMMUG00000056437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.814014376	0.004415818	0.021599145	
ENSMMUG00000000588	rhomboid 5 homolog 1 [Source:NCBI gene;Acc:693423]	2.151728314	6.95E-06	0.000106302	
ENSMMUG00000000590	NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]	3.567885581	5.89E-11	6.78E-09	
ENSMMUG00000019566	hemoglobin subunit alpha 1 [Source:NCBI gene;Acc:701930]	-	0.707385833	0.006062632	0.027774074
ENSMMUG00000029296	phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]	1.448384111	5.92E-06	9.35E-05	
ENSMMUG00000022010	ras homolog family member T2 [Source:VGNC Symbol;Acc:VGNC:76796]	-	2.100351715	0.004934067	0.023610183
ENSMMUG00000001986	WD repeat domain 24 [Source:VGNC Symbol;Acc:VGNC:79289]	-	1.411031433	0.000205761	0.001800895
ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]	-0.92252264	0.001064468	0.006939586	
ENSMMUG00000047001	mastin-like [Source:NCBI gene;Acc:722431]	1.680802717	0.005990037	0.027499619	
ENSMMUG00000044277	ubiquitin conjugating enzyme E2 I [Source:NCBI gene;Acc:722434]	-1.55174885	5.19E-05	0.000576503	
ENSMMUG00000012440	unk like zinc finger [Source:NCBI gene;Acc:100429104]	0.536814502	0.008254015	0.035429609	
ENSMMUG00000061546		-	1.967068351	0.002067513	0.011914079

ENSMMUG00000021518	chloride voltage-gated channel 7 [Source:VGNC Symbol;Acc:VGNC:71241]	-	0.835960602	0.002314812	0.012952197
ENSMMUG00000008119	telomere maintenance 2 [Source:NCBI gene;Acc:701679]	-	1.933665529	1.82E-06	3.49E-05
ENSMMUG00000018597	nucleotide binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75547]	-	0.877090964	0.004064601	0.020226065
ENSMMUG00000007937	ribosomal protein L3 like [Source:VGNC Symbol;Acc:VGNC:76923]	-	2.651002646	0.006954197	0.030995987
ENSMMUG00000029265	zinc finger protein 598 [Source:NCBI gene;Acc:694129]	-	0.582209523	0.003269715	0.01709928
ENSMMUG00000029263	polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]	-	0.961966436	1.59E-05	0.00021458
ENSMMUG00000019223	TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]	-	0.812559605	0.0016788	0.010117921
ENSMMUG00000019238	RNA binding protein with serine rich domain 1 [Source:NCBI gene;Acc:695816]	-	0.320879195	0.009690855	0.04031966
ENSMMUG00000000001	cyclin F [Source:VGNC Symbol;Acc:VGNC:70729]	-	0.672066589	0.007589465	0.03324238
ENSMMUG00000019095	TBC1 domain family member 24 [Source:NCBI gene;Acc:697106]	-	1.25934941	0.000364362	0.002875541
ENSMMUG00000011459	3-phosphoinositide dependent protein kinase 1 [Source:NCBI gene;Acc:697523]	-	0.430159393	0.000212286	0.001849294
ENSMMUG00000009487	zinc finger protein 205 [Source:VGNC Symbol;Acc:VGNC:78869]	-	0.713965817	0.001572766	0.009621542
ENSMMUG00000020970	zinc finger protein 213 [Source:VGNC Symbol;Acc:VGNC:78872]	-	0.73705527	0.001923158	0.011256628
ENSMMUG00000051323	caspase-14-like [Source:NCBI gene;Acc:702430]	-	0.860190575	0.012253691	0.048133947
ENSMMUG00000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]	-	0.622381423	0.012373661	0.048458848
ENSMMUG00000007568	zinc finger protein 174 [Source:VGNC Symbol;Acc:VGNC:78855]	-	1.252652926	0.007895702	0.034299097
ENSMMUG00000018711	N-alpha-acetyltransferase 60, NatF catalytic subunit [Source:NCBI gene;Acc:703207]	-	0.592944385	0.01058174	0.042954465
ENSMMUG00000002286	CREB binding protein [Source:VGNC Symbol;Acc:VGNC:71487]	-	0.646919445	0.001833647	0.01083526
ENSMMUG00000039943	adenylate cyclase 9 [Source:NCBI gene;Acc:706789]	-	1.991558474	0.000463249	0.003486205
ENSMMUG00000061940		-	3.743689075	0.00404543	0.020189893
ENSMMUG00000051196		-	2.515042393	0.001606555	0.009759388
ENSMMUG00000040803	sarcalumenin [Source:NCBI gene;Acc:704655]	-	-1.58981516	0.000291529	0.002386168
ENSMMUG00000020540	NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]	-	2.207954162	1.12E-09	7.74E-08
ENSMMUG00000001888	mahogunin ring finger 1 [Source:VGNC Symbol;Acc:VGNC:74542]	-	1.032689833	0.003186477	0.016758319
ENSMMUG00000014313	zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]	-	0.588716215	0.004169336	0.020649805
ENSMMUG00000017945	septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]	-	1.355398123	3.03E-06	5.38E-05
ENSMMUG00000049327		-	1.570601159	5.58E-06	8.97E-05
ENSMMUG00000017946	rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]	-	1.160918294	0.000129077	0.001230561
ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	-	2.234835057	1.49E-08	6.43E-07
ENSMMUG00000046237	4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]	-	0.965514293	0.000563121	0.004123846
ENSMMUG00000047806	calcium regulated heat stable protein 1 [Source:NCBI gene;Acc:709224]	-	1.998491258	1.97E-05	0.000258394
ENSMMUG00000061168	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.050312395	0.007706144	0.033621641
ENSMMUG00000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	-	0.838472745	2.67E-06	4.85E-05

ENSMMUG00000056165		1.031755539	0.011895819	0.047083121
ENSMMUG00000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]	1.219225078	0.004226804	0.020815005
ENSMMUG00000051604		1.572551978	0.00249782	0.01373062
ENSMMUG00000062037	stannin [Source:NCBI gene;Acc:711909]	2.186328742	3.02E-06	5.37E-05
ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	2.120945074	8.09E-05	0.000839277
ENSMMUG00000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	0.972151949	0.001249956	0.007922479
ENSMMUG00000017379	myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]	1.104493845	0.001148161	0.007402706
ENSMMUG00000064131		1.628324918	4.33E-05	0.000496244
ENSMMUG00000027108	mml-mir-193b [Source:miRBase;Acc:MI0007656]	2.001647475	0.003689994	0.018805668
ENSMMUG00000064246		0.753214885	0.0014016	0.008738835
ENSMMUG00000002991	RRN3 homolog, RNA polymerase I transcription factor [Source:NCBI gene;Acc:713500]	0.643733473	0.007379813	0.032525196
ENSMMUG00000062791		1.231324619	0.003881622	0.019546396
ENSMMUG00000062623	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.035351042	0.000776918	0.005346346
ENSMMUG00000010367	myosin heavy chain 11 [Source:VGNC Symbol;Acc:VGNC:75097]	1.381793136	0.000110609	0.001081643
ENSMMUG00000013329	transmembrane channel like 5 [Source:VGNC Symbol;Acc:VGNC:79366]	1.660994613	0.000348173	0.002771318
ENSMMUG00000016753	dynein axonemal heavy chain 3 [Source:VGNC Symbol;Acc:VGNC:71941]	1.634379476	5.42E-05	0.000595884
ENSMMUG00000054064		-1.85873323	3.89E-09	2.09E-07
ENSMMUG00000013560	calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]	0.858295943	0.006443754	0.029140288
ENSMMUG00000001407	solute carrier family 5 member 11 [Source:VGNC Symbol;Acc:VGNC:77759]	0.531915566	0.00446771	0.021828337
ENSMMUG00000029176	Rho GTPase activating protein 17 [Source:NCBI gene;Acc:701988]	0.582866426	8.91E-05	0.000909822
ENSMMUG00000015572	GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]	0.660879457	0.001580424	0.009645286
ENSMMUG00000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	1.274987842	1.92E-09	1.21E-07
ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	1.129173892	7.53E-08	2.41E-06
ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	1.145926341	2.33E-07	6.31E-06
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	1.250533095	1.80E-11	2.48E-09
ENSMMUG00000022330	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 [Source:NCBI gene;Acc:100428398]	-2.23325513	0.011084957	0.044524904
ENSMMUG00000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	3.787128561	1.73E-12	3.47E-10
ENSMMUG00000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	2.211731242	9.74E-07	2.07E-05
ENSMMUG00000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	2.107786244	2.78E-09	1.59E-07
ENSMMUG00000000983	aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]	1.657542239	3.60E-08	1.30E-06
ENSMMUG00000037707	TLC domain containing 3B [Source:NCBI gene;Acc:708210]	1.734707551	4.48E-05	0.000509674

ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	0.91601671	0.010520003	0.042810752
ENSMMUG00000061749	PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]	0.660476567	0.000774543	0.005338478
ENSMMUG00000019826	MYC associated zinc finger protein [Source:NCBI gene;Acc:708982]	0.820656602	0.002178605	0.012357146
ENSMMUG00000009684	kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]	1.525784562	0.000468169	0.003513565
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	1.364718486	7.54E-05	0.000789095
ENSMMUG00000001121	zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]	1.488496008	7.50E-05	0.000786731
ENSMMUG00000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	0.669948784	0.009095051	0.038393454
ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	0.527831181	0.012808132	0.049696468
ENSMMUG00000003230	F-box and leucine rich repeat protein 19 [Source:VGNC Symbol;Acc:VGNC:81406]	1.139471726	0.000154857	0.001422366
ENSMMUG00000048207	syntaxin 4 [Source:NCBI gene;Acc:704880]	0.43225522	0.012596735	0.049073031
ENSMMUG00000002033	serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]	0.876746974	0.001312106	0.008256049
ENSMMUG00000014349	integrin subunit alpha X [Source:NCBI gene;Acc:100427850]	1.614080409	2.80E-05	0.000346404
ENSMMUG00000058907		2.60266342	4.61E-07	1.11E-05
ENSMMUG00000055973	phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]	3.154021353	9.67E-07	2.06E-05
ENSMMUG00000012209	CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]	1.160541434	0.000312449	0.00252091
ENSMMUG00000055889		1.246136645	0.009555066	0.039869486
ENSMMUG00000064095		4.331150754	7.36E-05	0.000774001
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	2.630639111	2.42E-07	6.48E-06
ENSMMUG00000050057		2.331979842	1.50E-12	3.04E-10
ENSMMUG00000058254		1.9346621	2.92E-07	7.55E-06
ENSMMUG00000020580	RPGRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]	2.761901569	2.06E-15	8.92E-13
ENSMMUG00000020583	FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]	0.824143828	0.002153921	0.012254547
ENSMMUG00000019902	autocrine motility factor receptor [Source:VGNC Symbol;Acc:VGNC:69804]	0.706107124	0.004118871	0.020438778
ENSMMUG00000054811		2.330546663	0.011223535	0.044970208
ENSMMUG00000056555		1.034122371	0.003240492	0.016966925
ENSMMUG00000049484		0.470576971	0.009144908	0.038578877
ENSMMUG00000020847	CKLF like MARVEL transmembrane domain containing 3 [Source:VGNC Symbol;Acc:VGNC:71215]	0.985140787	0.012545263	0.048977916
ENSMMUG00000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]	0.91630047	0.000920882	0.00614835
ENSMMUG00000020258	E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]	0.680878517	0.002957494	0.015777347
ENSMMUG00000057511	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.014798767	0.002521568	0.013824262
ENSMMUG00000059872		1.586270629	0.010260636	0.042149259
ENSMMUG00000010393	cadherin 3 [Source:VGNC Symbol;Acc:VGNC:70971]	0.503072677	0.000537042	0.003968616
ENSMMUG00000011850	cadherin 1 [Source:VGNC Symbol;Acc:VGNC:70803]	2.42454899	1.20E-07	3.50E-06
ENSMMUG00000010922	hyaluronan synthase 3 [Source:VGNC Symbol;Acc:VGNC:73348]	1.49039905	0.002675428	0.014528858
ENSMMUG00000049699	thioredoxin like 4B [Source:NCBI gene;Acc:706840]	1.671387894	0.001003187	0.006609648
ENSMMUG00000010878	adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]	0.550765086	0.00228778	0.012831141

ENSMMUG00000012007	PH domain and leucine rich repeat protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:81494]	3.250526128	4.65E-10	3.85E-08
ENSMMUG00000052324	MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]	3.345895858	2.07E-10	1.95E-08
ENSMMUG00000058147		1.829910262	0.000583361	0.004243394
ENSMMUG00000005334	phospholipase C gamma 2 [Source:VGNC Symbol;Acc:VGNC:76170]	0.554581809	0.002453537	0.013532951
ENSMMUG00000057329		2.19824911	0.000111203	0.001085812
ENSMMUG00000020114	cadherin 13 [Source:VGNC Symbol;Acc:VGNC:70807]	1.483959006	0.005130331	0.024370008
ENSMMUG00000011894	CBY1 interacting BAR domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72335]	-1.25973275	0.000344062	0.002740275
ENSMMUG00000061995		0.869659529	0.000284412	0.002338218
ENSMMUG00000060536		2.777332711	0.000368669	0.002898977
ENSMMUG00000054493		-0.86599446	0.000141536	0.001325278
ENSMMUG00000058437		1.337395699	7.76E-06	0.000116798
ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]	3.965275779	9.96E-07	2.11E-05
ENSMMUG00000008942	carosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]	4.022866995	8.19E-07	1.81E-05
ENSMMUG00000058864		4.007575856	0.002867285	0.015378291
ENSMMUG00000051690		4.148401333	0.002514425	0.013801803
ENSMMUG00000015702	divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]	4.090757659	0.000925335	0.006174916
ENSMMUG00000020905	chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]	5.003513132	5.91E-06	9.35E-05
ENSMMUG00000056477		0.822166444	0.002522295	0.013824262
ENSMMUG00000050516		0.784142821	0.005898021	0.027163479
ENSMMUG00000057978		2.817789807	0.002808665	0.015119827
ENSMMUG00000001245	zinc finger protein 532 [Source:NCBI gene;Acc:701146]	5.415976058	3.58E-06	6.20E-05
ENSMMUG00000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.972969754	1.66E-05	0.000221975
ENSMMUG00000065131		3.854609584	0.00081795	0.005578534
ENSMMUG00000012001	transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]	0.844373655	0.004393704	0.021499066
ENSMMUG00000020898	cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]	1.152837992	0.005383684	0.025304582
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	2.850366503	8.41E-12	1.32E-09
ENSMMUG00000053364		0.934478787	0.010383211	0.042400013
ENSMMUG00000015952	katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]	2.141408298	0.000174522	0.001565094
ENSMMUG00000043738		2.202783321	0.000755221	0.005241408
ENSMMUG00000004498	protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]	1.597841078	0.001215028	0.007761617
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	1.891432332	1.96E-11	2.62E-09
ENSMMUG00000017246	lipxygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	1.671278883	5.24E-10	4.21E-08
ENSMMUG00000006864	KIAA1328 ortholog [Source:NCBI gene;Acc:709850]	3.337046902	0.004072901	0.020233825

ENSMMUG00000018785	elongator acetyltransferase complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72069]	-	0.556474673	0.004055454	0.020224222
ENSMMUG00000017276	nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]	-	1.067934003	0.000315842	0.002543558
ENSMMUG00000016674	beta-1,4-galactosyltransferase 6 [Source:VGNC Symbol;Acc:VGNC:70213]	-	3.174725128	0.004871635	0.023371627
ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]	-	2.975074606	4.69E-06	7.74E-05
ENSMMUG00000021095	desmoglein 2 [Source:VGNC Symbol;Acc:VGNC:72002]	-	2.609377575	0.003412472	0.017651561
ENSMMUG00000011690	desmocollin 1 [Source:VGNC Symbol;Acc:VGNC:71996]	-	2.579686675	4.46E-07	1.08E-05
ENSMMUG00000060604		-	1.36462075	0.001623531	0.009857909
ENSMMUG00000010944	GATA binding protein 6 [Source:VGNC Symbol;Acc:VGNC:72891]	-	1.006608423	0.000229014	0.001967345
ENSMMUG00000064806		-	1.430592742	4.98E-05	0.000555432
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	-	1.031293105	2.18E-05	0.000280836
ENSMMUG00000058439		-	3.712170743	0.002322164	0.012962258
ENSMMUG00000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	-	1.747897107	1.81E-11	2.48E-09
ENSMMUG00000053008		-	1.254937534	0.000128982	0.001230561
ENSMMUG00000049523	ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]	-	1.587405003	0.000210343	0.001836058
ENSMMUG00000012768	hyperpolarization activated cyclic nucleotide gated potassium and sodium channel 2 [Source:NCBI gene;Acc:100425114]	-	1.016710512	0.00201922	0.0117032
ENSMMUG00000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]	-	1.097142593	1.75E-08	7.44E-07
ENSMMUG00000008672	ring finger protein 126 [Source:VGNC Symbol;Acc:VGNC:76791]	-	0.807042775	0.003663133	0.018698082
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	-	2.280256857	0.007758691	0.033828205
ENSMMUG00000061589	proteinase 3 [Source:HGNC Symbol;Acc:HGNC:9495]	-	3.311100002	0.004354688	0.021332233
ENSMMUG00000009674	elastase, neutrophil expressed [Source:VGNC Symbol;Acc:VGNC:72199]	-	3.166320368	0.000451807	0.003422366
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	-	1.376873203	4.37E-09	2.30E-07
ENSMMUG00000009682	R3H domain containing 4 [Source:VGNC Symbol;Acc:VGNC:76554]	-	3.156235433	5.90E-10	4.62E-08
ENSMMUG00000058621		-	1.309667554	0.00010911	0.001069389
ENSMMUG00000002638	WD repeat domain 18 [Source:VGNC Symbol;Acc:VGNC:79103]	-	0.993387832	0.001626603	0.009871952
ENSMMUG00000013577	transmembrane protein 259 [Source:NCBI gene;Acc:721161]	-	0.443306809	0.012102837	0.047728775
ENSMMUG00000015306	calponin 2 [Source:NCBI gene;Acc:721164]	-	0.792190751	4.46E-05	0.000507314
ENSMMUG00000010886	strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]	-	3.74821974	4.35E-13	9.91E-11
ENSMMUG00000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.272732029	7.49E-08	2.40E-06
ENSMMUG00000022198	serine/threonine kinase 11 [Source:VGNC Symbol;Acc:VGNC:82249]	-	2.206971927	6.56E-06	0.000101413
ENSMMUG00000015768	CACN subunit beta associated regulatory protein [Source:VGNC Symbol;Acc:VGNC:70662]	-	2.548535736	7.20E-07	1.63E-05
ENSMMUG00000064846	ATP synthase F1 subunit delta [Source:NCBI gene;Acc:705944]	-	0.792678141	0.00286441	0.015375369
ENSMMUG00000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	-	0.81492581	0.000165148	0.001493681
ENSMMUG00000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]	-	-0.71604689	0.003321934	0.017323604

ENSMMUG0000003045	NADH:ubiquinone oxidoreductase core subunit S7 [Source:NCBI gene;Acc:721259]	0.920835538	0.005928323	0.027274062
ENSMMUG0000003046	guanidinoacetate N-methyltransferase [Source:VGNC Symbol;Acc:VGNC:72877]	1.159239655	0.000139408	0.001306297
ENSMMUG0000009014	methyl-CpG binding domain protein 3 [Source:VGNC Symbol;Acc:VGNC:81470]	-	0.00164532	0.009957668
ENSMMUG00000013747	secretory carrier membrane protein 4 [Source:VGNC Symbol;Acc:VGNC:77135]	-0.55676855	0.006343999	0.028769193
ENSMMUG00000010984	MOB kinase activator 3A [Source:NCBI gene;Acc:721441]	0.444560325	0.006886051	0.030723837
ENSMMUG00000058897	PEAK family member 3 [Source:NCBI gene;Acc:717566]	1.642033944	0.002329848	0.012982861
ENSMMUG00000058241	leucine rich repeat and Ig domain containing 3 [Source:NCBI gene;Acc:721484]	2.498209779	3.31E-08	1.22E-06
ENSMMUG00000064612	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.666057036	1.87E-09	1.18E-07
ENSMMUG00000000452	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]	1.775275266	0.007829913	0.034070206
ENSMMUG00000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.695242799	4.78E-09	2.47E-07
ENSMMUG00000007485	zinc finger protein 555 [Source:VGNC Symbol;Acc:VGNC:79705]	0.753314604	0.008043349	0.034824169
ENSMMUG00000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	1.105396304	3.68E-06	6.32E-05
ENSMMUG00000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	1.446951395	8.38E-06	0.000124139
ENSMMUG00000060497		1.974508724	0.000643858	0.004613784
ENSMMUG00000028930	tight junction protein 3 [Source:NCBI gene;Acc:721760]	0.712218271	0.003919418	0.019678079
ENSMMUG00000028925	HDGF like 2 [Source:NCBI gene;Acc:693476]	-2.9387852	1.51E-05	0.000205663
ENSMMUG00000022656	perilipin 4 [Source:NCBI gene;Acc:693610]	1.357320699	0.004715078	0.02278867
ENSMMUG00000062995		0.593270127	0.01020217	0.041963764
ENSMMUG00000012677	lysine demethylase 4B [Source:VGNC Symbol;Acc:VGNC:73930]	1.504391255	1.81E-06	3.48E-05
ENSMMUG00000054688		2.326943086	1.01E-06	2.12E-05
ENSMMUG00000016665	NADH:ubiquinone oxidoreductase subunit A11 [Source:NCBI gene;Acc:697843]	1.278437655	0.004441066	0.021714474
ENSMMUG00000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	-2.45718388	1.39E-06	2.79E-05
ENSMMUG00000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]	0.79944977	0.000245299	0.002081118
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	0.991956781	0.000317702	0.002556947
ENSMMUG00000057682		0.981992572	0.000754423	0.005239747
ENSMMUG00000028907	insulin receptor [Source:NCBI gene;Acc:706009]	2.062281837	0.000250392	0.00211056
ENSMMUG00000028906	Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]	2.62522913	5.33E-08	1.80E-06
ENSMMUG00000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.271670398	9.10E-06	0.000133318
ENSMMUG00000014032	proline rich 36 [Source:NCBI gene;Acc:710443]	5.601857263	7.09E-07	1.62E-05
ENSMMUG00000016695	CD320 molecule [Source:VGNC Symbol;Acc:VGNC:70763]	1.206068256	0.009190035	0.038659351
ENSMMUG00000016821	ADAM metalloproteinase with thrombospondin type 1 motif 10 [Source:NCBI gene;Acc:708107]	1.06664649	0.000359285	0.002844099
ENSMMUG00000064610	long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]	1.235040516	0.000510487	0.003796108
ENSMMUG00000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	1.674846031	7.78E-09	3.72E-07

ENSMMUG0000005695	zinc finger protein 121 [Source:VGNC Symbol;Acc:VGNC:78835]	0.470347396	0.011368589	0.04543942
ENSMMUG0000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	0.873938467	0.00284316	0.015280555
ENSMMUG00000011205	retinol dehydrogenase 8 [Source:VGNC Symbol;Acc:VGNC:76733]	1.056839133	0.010071924	0.041546289
ENSMMUG00000014897	ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]	1.164883457	3.23E-05	0.000391428
ENSMMUG00000011951	KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]	2.057419856	4.20E-07	1.03E-05
ENSMMUG00000003744	solute carrier family 44 member 2 [Source:VGNC Symbol;Acc:VGNC:77498]	0.485078044	0.0092257	0.038768807
ENSMMUG00000014673	interleukin enhancer binding factor 3 [Source:VGNC Symbol;Acc:VGNC:73737]	1.201384331	0.001245586	0.007909216
ENSMMUG00000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	1.424609812	0.000261371	0.002177699
ENSMMUG00000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.913176416	1.62E-06	3.15E-05
ENSMMUG00000018981	chromosome 19 C19orf38 homolog [Source:VGNC Symbol;Acc:VGNC:70457]	1.366871229	1.32E-09	8.78E-08
ENSMMUG00000003612	SPC24 component of NDC80 kinetochore complex [Source:VGNC Symbol;Acc:VGNC:78002]	1.87798723	0.004896235	0.023463682
ENSMMUG00000043134	coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]	2.07859185	1.87E-05	0.000245831
ENSMMUG00000022207	phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]	1.949817801	1.43E-05	0.000197243
ENSMMUG00000010824	SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]	2.325989764	3.45E-05	0.000413381
ENSMMUG00000038989	erythropoietin receptor [Source:NCBI gene;Acc:714546]	2.30097601	0.00026014	0.002170227
ENSMMUG00000010826	ral guanine nucleotide dissociation stimulator like 3 [Source:VGNC Symbol;Acc:VGNC:76869]	2.2318249	5.75E-06	9.16E-05
ENSMMUG00000001715	zinc finger protein 627 [Source:VGNC Symbol;Acc:VGNC:79856]	0.949158837	0.000818875	0.005581914
ENSMMUG00000053329		1.474336763	0.001588896	0.009672924
ENSMMUG00000047218	zinc finger protein 440 [Source:HGNC Symbol;Acc:HGNC:20874]	0.8884831	0.002317448	0.012955553
ENSMMUG00000064114	zinc finger protein 709 [Source:NCBI gene;Acc:100427466]	0.800429202	0.005156485	0.024467439
ENSMMUG00000058614		1.882982722	0.006714502	0.03012377
ENSMMUG00000016860	zinc finger protein 490 [Source:NCBI gene;Acc:100426568]	1.171403959	0.00033294	0.002664748
ENSMMUG00000016862	zinc finger protein 791 [Source:VGNC Symbol;Acc:VGNC:79639]	1.445006063	0.001627366	0.009871977
ENSMMUG00000063236	bestrophin 2 [Source:NCBI gene;Acc:716545]	0.772868766	0.011338731	0.045361899
ENSMMUG00000019292	nuclear factor I X [Source:VGNC Symbol;Acc:VGNC:75338]	0.753244088	0.000811733	0.005544849
ENSMMUG00000001167	tRNA methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:79562]	1.3342553	0.000310102	0.002505085
ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	1.941979575	8.00E-07	1.78E-05
ENSMMUG00000003555	calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]	2.275343674	6.31E-07	1.47E-05
ENSMMUG00000014137	adhesion G protein-coupled receptor L1 [Source:VGNC Symbol;Acc:VGNC:69658]	0.541310999	0.000664959	0.004727136
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	0.933875334	0.0014823	0.0091412
ENSMMUG00000005729	GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]	0.816888961	0.000406199	0.003135329
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	1.233309476	5.79E-05	0.000629035

ENSMMUG00000060289		1.314659396	6.20E-05	0.000666015
ENSMMUG00000053889	olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]	1.252396469	0.003338125	0.017359317
ENSMMUG00000053457	caspase 14 [Source:NCBI gene;Acc:718049]	1.997546898	0.000138791	0.001302131
ENSMMUG00000007726	synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]	2.441588657	7.37E-05	0.000774758
ENSMMUG00000007729	ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]	1.916194226	9.93E-05	0.000990717
ENSMMUG00000016996	cytochrome P450, family 4, subfamily F, polypeptide 22 [Source:NCBI gene;Acc:718303]	0.810567788	0.007822723	0.034050311
ENSMMUG00000010734	cytochrome P450, family 4, subfamily F, polypeptide 8 [Source:NCBI gene;Acc:718335]	0.527477896	0.002244016	0.012656406
ENSMMUG00000039592		0.446802787	0.004764249	0.022983612
ENSMMUG00000056778		6.362063295	6.78E-07	1.56E-05
ENSMMUG00000004283	calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]	2.69377578	2.13E-07	5.86E-06
ENSMMUG00000000994	epidermal growth factor receptor pathway substrate 15 like 1 [Source:VGNC Symbol;Acc:VGNC:72100]	1.812779509	0.007363417	0.032463932
ENSMMUG00000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.004290953	5.34E-05	0.000588643
ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]	0.986423878	5.24E-05	0.000579964
ENSMMUG00000018503	NACHT and WD repeat domain containing 1 [Source:NCBI gene;Acc:719640]	0.446041067	0.003046645	0.016166736
ENSMMUG00000057655		-0.6615575	0.010676757	0.043218769
ENSMMUG00000011588	myosin IXB [Source:HGNC Symbol;Acc:HGNC:7609]	1.23163241	7.75E-05	0.00080812
ENSMMUG00000002413	plasmalemma vesicle associated protein [Source:VGNC Symbol;Acc:VGNC:76021]	4.968494265	0.001919237	0.011240635
ENSMMUG00000000198	collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]	0.733749797	0.000120825	0.001161451
ENSMMUG00000015476	unc-13 homolog A [Source:NCBI gene;Acc:720000]	0.661296246	0.012555315	0.048978531
ENSMMUG00000010996	Janus kinase 3 [Source:VGNC Symbol;Acc:VGNC:73812]	1.003338181	0.000112453	0.00109555
ENSMMUG00000038308	coiled-coil domain containing 124 [Source:NCBI gene;Acc:720072]	1.357584042	2.26E-05	0.000289619
ENSMMUG00000007398	potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]	2.666033332	2.42E-09	1.45E-07
ENSMMUG00000007401	arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]	1.118182122	0.000434258	0.00331648
ENSMMUG00000003161	microtubule associated serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:74533]	0.454847902	0.012150153	0.04781157
ENSMMUG00000061452		2.761698099	0.000247811	0.002094233
ENSMMUG00000005028	phosphodiesterase 4C [Source:NCBI gene;Acc:720171]	1.305513253	4.80E-06	7.87E-05
ENSMMUG00000021182	single stranded DNA binding protein 4 [Source:VGNC Symbol;Acc:VGNC:81581]	4.271254562	3.65E-05	0.000431696
ENSMMUG00000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	0.96564236	0.001923995	0.011256628
ENSMMUG00000009988	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	1.339980887	2.95E-05	0.000361718
ENSMMUG00000006509	CREB regulated transcription coactivator 1 [Source:VGNC Symbol;Acc:VGNC:71418]	1.339390095	0.000519812	0.003854434
ENSMMUG00000023286	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	2.187860052	1.92E-07	5.35E-06
ENSMMUG00000050739		1.472618541	0.002304981	0.012905118

ENSMMUG00000019665	SURP and G-patch domain containing 2 [Source:VGNC Symbol;Acc:VGNC:78163]	2.995819194	2.24E-08	9.01E-07
ENSMMUG00000019668	armadillo repeat containing 6 [Source:VGNC Symbol;Acc:VGNC:69899]	2.525902674	3.69E-07	9.32E-06
ENSMMUG00000008578	hyaluronan and proteoglycan link protein 4 [Source:VGNC Symbol;Acc:VGNC:73261]	1.178862545	0.01048094	0.042691861
ENSMMUG00000048108	PBX homeobox 4 [Source:NCBI gene;Acc:106994668]	3.210622682	0.008143643	0.035106471
ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	0.751961245	7.90E-06	0.000118768
ENSMMUG00000061085		-1.05415873	3.72E-05	0.000438759
ENSMMUG00000062866		1.645099702	2.75E-07	7.18E-06
ENSMMUG00000015533	zinc finger protein 493 [Source:NCBI gene;Acc:693611]	1.257067698	0.002365682	0.013126303
ENSMMUG00000046906		0.987029783	0.000537839	0.003972249
ENSMMUG00000061186		1.070066172	1.48E-07	4.26E-06
ENSMMUG00000040273	zinc finger protein 257 [Source:NCBI gene;Acc:694388]	1.035319881	0.008513027	0.036373335
ENSMMUG00000063815	zinc finger protein 208-like [Source:NCBI gene;Acc:721315]	1.559845261	0.000149922	0.001385847
ENSMMUG00000060408		1.387846446	0.004334481	0.02125726
ENSMMUG00000003645	zinc finger protein 726 [Source:HGNC Symbol;Acc:HGNC:32462]	2.295901057	0.00170134	0.010215893
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	2.7202028	1.18E-13	3.19E-11
ENSMMUG00000058740		0.579979706	0.010519757	0.042810752
ENSMMUG00000057215		1.572162095	0.000309808	0.002504263
ENSMMUG00000050177		1.715211025	6.64E-05	0.000708903
ENSMMUG00000060455		-3.07091781	0.000221029	0.001916466
ENSMMUG00000052666	programmed cell death 5 [Source:NCBI gene;Acc:702277]	2.358088101	0.009827258	0.040730823
ENSMMUG00000008041	ankyrin repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:69693]	0.900812318	0.002581178	0.014100534
ENSMMUG00000015608	tudor domain containing 12 [Source:VGNC Symbol;Acc:VGNC:82254]	1.000130521	0.009510665	0.039756446
ENSMMUG00000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]	1.027797583	0.012479399	0.048789772
ENSMMUG00000017939	FA core complex associated protein 24 [Source:VGNC Symbol;Acc:VGNC:72388]	0.958560553	0.00213469	0.012187786
ENSMMUG00000028798	rhophilin Rho GTPase binding protein 2 [Source:NCBI gene;Acc:716602]	-0.8395829	0.000616932	0.004450259
ENSMMUG00000064983		0.952043293	0.000156847	0.001435574
ENSMMUG00000061372		1.868654613	0.000125346	0.001200475
ENSMMUG00000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]	0.952395943	0.002693175	0.014594765
ENSMMUG00000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]	1.537276995	3.84E-06	6.54E-05
ENSMMUG00000001538	GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]	0.825548604	9.00E-05	0.000916911

ENSMMUG0000004843	sodium voltage-gated channel beta subunit 1 [Source:VGNC Symbol;Acc:VGNC:76983]	0.673636955	0.003623118	0.01853748
ENSMMUG00000023207	FXYD domain containing ion transport regulator 5 [Source:VGNC Symbol;Acc:VGNC:82147]	0.515990475	0.010230316	0.042052934
ENSMMUG00000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]	1.478746947	8.66E-05	0.000888279
ENSMMUG00000065025		1.09637469	1.22E-05	0.000172441
ENSMMUG00000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]	0.894902238	2.81E-05	0.000346865
		-		
ENSMMUG00000019756	NFKB inhibitor delta [Source:VGNC Symbol;Acc:VGNC:75179]	0.931136773	0.000543114	0.004006658
ENSMMUG00000008004	transmembrane immune signaling adaptor TYROBP [Source:NCBI gene;Acc:574207]	0.736953638	0.001713628	0.01026598
		-		
ENSMMUG00000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]	0.656351703	0.001919533	0.011240635
		-		
ENSMMUG00000000547	zinc finger protein 566 [Source:VGNC Symbol;Acc:VGNC:81619]	0.658122298	0.001274752	0.008056083
		-		
ENSMMUG00000022793	zinc finger protein 529 [Source:VGNC Symbol;Acc:VGNC:79801]	0.903256569	0.002178149	0.012357146
		-		
ENSMMUG00000016449	zinc finger protein 382 [Source:VGNC Symbol;Acc:VGNC:79078]	1.434375827	7.32E-05	0.00077074
ENSMMUG00000028771	Yip1 interacting factor homolog B, membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:79852]	3.22690697	8.25E-06	0.000122561
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	1.911894955	0.000112002	0.001092797
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	4.166442362	7.38E-29	3.20E-25
ENSMMUG00000012787	acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]	1.377358254	0.008979484	0.03796722
ENSMMUG00000005552	PAF1 homolog, Paf1/RNA polymerase II complex component [Source:VGNC Symbol;Acc:VGNC:81492]	3.581814524	0.001426668	0.008852695
ENSMMUG00000005554	mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]	5.543934292	2.16E-10	2.02E-08
ENSMMUG00000038702	ZFP36 ring finger protein [Source:NCBI gene;Acc:722000]	4.508138612	0.000717048	0.005035598
ENSMMUG00000019369	pleckstrin homology and RhoGEF domain containing G2 [Source:VGNC Symbol;Acc:VGNC:76133]	4.791022989	5.75E-07	1.35E-05
ENSMMUG00000019093	delta like canonical Notch ligand 3 [Source:VGNC Symbol;Acc:VGNC:71925]	3.675628306	0.002261517	0.012733025
ENSMMUG00000048215		4.758516885	1.50E-11	2.12E-09
ENSMMUG00000022726	dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]	2.117057117	7.50E-05	0.000786731
		-		
ENSMMUG00000022724		1.217496622	0.009503272	0.039755405
		-		
ENSMMUG00000051261		1.247704289	0.001017266	0.006682104
		-		
ENSMMUG00000017191	zinc finger protein 546 [Source:VGNC Symbol;Acc:VGNC:79732]	1.463842733	0.000624248	0.004500535
ENSMMUG00000041976	zinc finger protein 780B [Source:NCBI gene;Acc:701034]	-1.2375553	2.37E-07	6.39E-06
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	1.061919324	0.000202717	0.001779036
		-		
ENSMMUG00000065016		1.103565637	0.009616062	0.040072573
		-		
ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	0.967934604	0.008292587	0.035571696
ENSMMUG00000022625	periaxin [Source:VGNC Symbol;Acc:VGNC:76248]	-1.65305992	0.00016163	0.001467992
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	1.184725577	1.48E-05	0.000202342
ENSMMUG00000017431	glutamate ionotropic receptor kainate type subunit 5 [Source:VGNC Symbol;Acc:VGNC:73280]	1.097426931	0.002082094	0.011967964

ENSMMUG00000013376	POU class 2 homeobox 2 [Source:NCBI gene;Acc:706835]	1.060953588	0.000256142	0.002144398
ENSMMUG00000014599	glycogen synthase kinase 3 alpha [Source:NCBI gene;Acc:707037]	3.114957241	5.83E-05	0.000632731
ENSMMUG00000012174	capicua transcriptional repressor [Source:NCBI gene;Acc:707463]	3.032586165	0.002906987	0.015565363
ENSMMUG00000059128		2.355516642	0.000158791	0.00144624
ENSMMUG00000019265	zinc finger protein 575 [Source:VGNC Symbol;Acc:VGNC:79667]	0.832505944	0.00459273	0.022305095
ENSMMUG00000064975	zinc finger protein 221 [Source:NCBI gene;Acc:100423743]	2.138963714	1.18E-05	0.000168206
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	1.315726065	1.12E-05	0.000159877
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	1.359556221	6.54E-07	1.51E-05
ENSMMUG00000049451	Cbl proto-oncogene C [Source:NCBI gene;Acc:713112]	1.364472149	9.52E-05	0.000956787
ENSMMUG00000003273	basal cell adhesion molecule (Lutheran blood group) [Source:NCBI gene;Acc:714568]	-0.62404817	0.005433592	0.025503173
ENSMMUG00000014303	translocase of outer mitochondrial membrane 40 [Source:VGNC Symbol;Acc:VGNC:78419]	2.823892654	0.008867033	0.037540571
ENSMMUG00000002472	CLPTM1 regulator of GABA type A receptor forward trafficking [Source:VGNC Symbol;Acc:VGNC:71265]	1.392528317	0.006456196	0.029176262
ENSMMUG00000014155	CLK4 associating serine/arginine rich protein [Source:VGNC Symbol;Acc:VGNC:71198]	2.417929202	0.000393515	0.003061037
ENSMMUG00000022931	NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]	1.593159474	2.69E-07	7.06E-06
ENSMMUG00000018879	exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]	1.144198328	0.002651334	0.014422105
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	2.499408832	1.05E-08	4.78E-07
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	1.272526666	0.000102045	0.001011586
ENSMMUG00000000718	ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]	1.015385937	0.000318366	0.002559124
ENSMMUG00000053242	outer mitochondrial membrane lipid metabolism regulator OPA3 [Source:NCBI gene;Acc:714806]	3.39699913	0.000636612	0.004567679
ENSMMUG00000006936	gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]	0.808439501	0.000536733	0.003968588
ENSMMUG00000032809	mml-mir-642 [Source:miRBase;Acc:MI0007885]	0.899619706	0.001178079	0.007562735
ENSMMUG00000006937	small nuclear ribonucleoprotein D2 polypeptide [Source:NCBI gene;Acc:715183]	1.766331189	0.011309935	0.04527455
ENSMMUG00000051573	SIX homeobox 5 [Source:NCBI gene;Acc:715373]	0.571429487	0.001957094	0.011399001
ENSMMUG00000016457	DM1 protein kinase [Source:NCBI gene;Acc:715328]	3.385811536	2.71E-11	3.39E-09
ENSMMUG00000005827	PNMA family member 8A [Source:VGNC Symbol;Acc:VGNC:76111]	2.462935291	0.000270675	0.002245156
ENSMMUG00000017921	calmodulin 3 [Source:NCBI gene;Acc:716584]	0.524625493	0.003483343	0.01791394
ENSMMUG00000051115		2.990864571	1.05E-06	2.20E-05
ENSMMUG00000017927	protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]	2.529352857	1.38E-05	0.000191546
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	4.217571176	4.08E-14	1.28E-11
ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.45852894	2.11E-05	0.000273101
ENSMMUG00000011330	neuronal PAS domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75377]	2.397386411	7.99E-11	8.74E-09
ENSMMUG00000057454	transmembrane protein 160 [Source:NCBI gene;Acc:716996]	2.903644423	4.51E-13	1.01E-10
ENSMMUG00000009277	complement component 5a receptor 2 [Source:VGNC Symbol;Acc:VGNC:70690]	1.092972244	0.001705573	0.010231865

ENSMMUG00000013009	Meis homeobox 3 [Source:NCBI gene;Acc:718145]	0.533033487	0.002921008	0.015634003
ENSMMUG00000014718	solute carrier family 8 member A2 [Source:VGNC Symbol;Acc:VGNC:77635]	0.627015439	3.78E-05	0.000443662
ENSMMUG00000014723	kaptin, actin binding protein [Source:VGNC Symbol;Acc:VGNC:74204]	0.859190572	0.00278668	0.015026352
ENSMMUG00000014727	NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]	0.970664086	0.000301457	0.002453536
ENSMMUG00000054090		1.065070216	0.006008775	0.027575908
ENSMMUG00000006857	epididymal sperm binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72046]	1.478394563	2.89E-05	0.000356117
ENSMMUG00000042157	caspase recruitment domain-containing protein 8 [Source:NCBI gene;Acc:718594]	0.662105187	0.000252018	0.002117407
ENSMMUG00000001793	cytohesin 2 [Source:NCBI gene;Acc:718682]	0.856047805	0.003828103	0.019342776
ENSMMUG00000055036	MEF2 activating motif and SAP domain containing transcriptional regulator [Source:NCBI gene;Acc:718823]	0.822872833	0.000754509	0.005239747
ENSMMUG00000018415	Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]	0.812764633	0.001245643	0.007909216
ENSMMUG00000028736	hydroxysteroid 17-beta dehydrogenase 14 [Source:NCBI gene;Acc:106994816]	1.184492648	0.000845116	0.005730753
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	2.005051475	1.87E-06	3.58E-05
ENSMMUG00000022116	PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]	1.894190605	0.000258438	0.002157673
ENSMMUG00000051892	fms related receptor tyrosine kinase 3 ligand [Source:NCBI gene;Acc:719239]	2.026350192	2.26E-05	0.000289619
ENSMMUG00000007551	ribosomal protein L13a [Source:NCBI gene;Acc:574314]	1.617211227	3.01E-05	0.000368095
ENSMMUG00000049747	proline rich and Gla domain 2 [Source:NCBI gene;Acc:719318]	0.986692565	0.0049829	0.023782604
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	2.478515959	7.54E-12	1.23E-09
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	1.853861699	9.02E-05	0.000918685
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]	3.418923343	0.000754238	0.005239747
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	1.178798563	1.96E-06	3.71E-05
ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	1.615851571	1.33E-06	2.70E-05
ENSMMUG00000020175	mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]	2.213030953	2.76E-07	7.21E-06
ENSMMUG00000011626	TBC1 domain family member 17 [Source:VGNC Symbol;Acc:VGNC:78216]	2.257391367	0.003493193	0.017943311
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	1.533250467	0.001424584	0.008848204
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	2.336967323	9.03E-10	6.55E-08
ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.680823055	0.001662064	0.01004032
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	2.256131197	0.000524993	0.003890634
ENSMMUG00000001427	myosin heavy chain 14 [Source:VGNC Symbol;Acc:VGNC:75006]	1.56032963	6.24E-05	0.00067029
ENSMMUG00000056529	synaptotagmin 3 [Source:NCBI gene;Acc:719650]	1.71142443	0.004506699	0.021928216
ENSMMUG00000046099	chromosome 19 C19orf81 homolog [Source:NCBI gene;Acc:719661]	2.091821012	0.009552545	0.039869486
ENSMMUG00000059087		3.844215817	0.000453322	0.003429848
ENSMMUG00000065035	kallikrein-2 [Source:NCBI gene;Acc:719436]	-1.32043834	8.76E-05	0.000896706
ENSMMUG00000060764		0.960368257	0.0001004	0.000998323
ENSMMUG00000013597	kallikrein related peptidase 5 [Source:VGNC Symbol;Acc:VGNC:74191]	0.955843311	0.000830973	0.005652526

ENSMMUG00000061396	kallikrein related peptidase 6 [Source:NCBI gene;Acc:719776]	0.897000723	0.000511327	0.003800181
ENSMMUG00000015445	kallikrein related peptidase 8 [Source:VGNC Symbol;Acc:VGNC:74194]	1.057700877	0.000261028	0.002176236
ENSMMUG00000064856	kallikrein related peptidase 14 [Source:NCBI gene;Acc:722692]	1.313315795	0.011842304	0.04692901
ENSMMUG00000023531	electron transfer flavoprotein subunit beta [Source:VGNC Symbol;Acc:VGNC:72437]	0.742879888	0.001595405	0.009696183
ENSMMUG00000015369	natural killer cell granule protein 7 [Source:VGNC Symbol;Acc:VGNC:75352]	1.004026169	0.001062514	0.006933794
ENSMMUG00000021111	sialic acid binding Ig like lectin 10 [Source:VGNC Symbol;Acc:VGNC:77237]	1.327995151	0.008191295	0.035265137
ENSMMUG00000044652	sialic acid-binding Ig-like lectin 13 [Source:NCBI gene;Acc:719667]	2.111250034	2.66E-13	6.54E-11
ENSMMUG00000062017		2.612107206	0.000353568	0.002807388
ENSMMUG00000012764	zinc finger protein 175 [Source:VGNC Symbol;Acc:VGNC:78856]	1.389761498	5.39E-05	0.000593444
ENSMMUG00000012761	sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]	1.259542906	2.01E-10	1.91E-08
ENSMMUG00000013053	sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]	1.816506914	2.40E-09	1.44E-07
ENSMMUG00000053150	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.805690799	0.002391807	0.013254301
ENSMMUG00000013049	formyl peptide receptor 1 [Source:NCBI gene;Acc:719782]	1.373286758	0.000228021	0.001960111
ENSMMUG00000051078		0.803018895	0.012085976	0.047676738
ENSMMUG00000023136	zinc finger protein 613 [Source:VGNC Symbol;Acc:VGNC:79548]	0.551886831	0.002142774	0.012209878
ENSMMUG00000052090		0.442547622	0.008189239	0.035265137
ENSMMUG00000023137	zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]	1.224544197	0.00011041	0.001080509
ENSMMUG00000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	1.702670445	0.001116559	0.007232053
ENSMMUG00000064519		1.511157121	0.00188679	0.011073825
ENSMMUG00000057187		1.187424683	0.002063895	0.01190378
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	2.150344419	3.57E-08	1.29E-06
ENSMMUG00000061536		3.961630246	8.37E-07	1.84E-05
ENSMMUG00000061238		2.850198006	0.006461674	0.029190877

SD 60 vs. Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	2.607417244	1.45E-08	1.76E-05
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	1.827312214	0.000751494	0.048369686
ENSMMUG000000055783		3.066864486	1.71E-06	0.000956245
ENSMMUG00000000730	spectrin alpha, erythrocytic 1 [Source:VGNC Symbol;Acc:VGNC:77868]	1.267492291	0.000149278	0.018352821
ENSMMUG00000000724	olfactory receptor 6Y1 [Source:NCBI gene;Acc:719071]	1.344248337	0.000447077	0.034882763
ENSMMUG000000055304	insulin receptor related receptor [Source:NCBI gene;Acc:718670]	1.672963772	1.10E-05	0.003661513
ENSMMUG000000017819	putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]	0.959955513	0.000287845	0.027628069
ENSMMUG000000031785		1.257141694	0.000690936	0.045819538
ENSMMUG000000050998		1.73786255	1.23E-05	0.003945213
ENSMMUG000000061766		2.405799551	0.000197322	0.021773856
ENSMMUG000000060790		4.642786371	0.000225237	0.023927655
ENSMMUG000000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	1.119673011	0.000353119	0.030190734
ENSMMUG000000022762	OMA1 zinc metallopeptidase [Source:VGNC Symbol;Acc:VGNC:75485]	1.399568493	7.21E-05	0.012524518
ENSMMUG000000006669	ubiquitin protein ligase E3 component n-recognin 4 [Source:VGNC Symbol;Acc:VGNC:79845]	0.698013133	3.42E-05	0.007098751
ENSMMUG000000018163	caspase 9 [Source:NCBI gene;Acc:694544]	4.613355777	0.000101891	0.01492606
ENSMMUG000000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]	1.432136154	0.000653323	0.044679148
ENSMMUG000000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	1.734414531	1.34E-07	0.000146371
ENSMMUG000000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	1.080467841	9.47E-05	0.01492606
ENSMMUG000000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	1.062534154	7.24E-06	0.002762249
ENSMMUG000000008916	transferrin [Source:VGNC Symbol;Acc:VGNC:82716]	1.185840681	2.65E-05	0.006579148
ENSMMUG000000052474		1.604310282	0.000788022	0.049601594
ENSMMUG000000023289	phospholipase D1 [Source:VGNC Symbol;Acc:VGNC:76171]	4.623835616	0.000709218	0.046748571
ENSMMUG000000021242	natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]	4.563065272	6.58E-05	0.012211301
ENSMMUG000000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	1.246400615	3.05E-07	0.000251862
ENSMMUG000000010498	HemK methyltransferase family member 1 [Source:VGNC Symbol;Acc:VGNC:73228]	1.441391828	0.000261094	0.026402578
ENSMMUG000000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	-1.06490637	0.000254783	0.026300342
ENSMMUG000000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.517371993	5.70E-05	0.010902975
ENSMMUG000000051296	paired like homeobox 2B [Source:NCBI gene;Acc:701940]	1.813931508	0.000565948	0.040474533
ENSMMUG000000010316	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]	2.538475358	0.000171342	0.019944986

ENSMMUG00000010318	phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]	2.935337389	0.000106308	0.01502534
ENSMMUG00000058698		1.882232008	0.000470137	0.035936831
ENSMMUG00000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]	1.006386632	0.0004062	0.032983359
ENSMMUG00000049396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.541129422	0.00036795	0.030733639
ENSMMUG00000052609	ribosomal protein L34 [Source:NCBI gene;Acc:696636]	1.926524491	0.000786461	0.049601594
ENSMMUG00000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	1.805083144	0.000632364	0.043517807
ENSMMUG00000010043	epidermal growth factor [Source:VGNC Symbol;Acc:VGNC:72171]	1.234536948	0.000630783	0.043517807
ENSMMUG00000062794		2.67703979	0.00030212	0.028498238
ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]	1.665866149	1.71E-05	0.004917538
ENSMMUG00000002212	LPS responsive beige-like anchor protein [Source:NCBI gene;Acc:693823]	2.387614773	2.42E-06	0.001259111
ENSMMUG00000039441	mab-21 like 2 [Source:NCBI gene;Acc:693948]	2.382064985	0.000479508	0.035936831
ENSMMUG00000059101		2.842504743	3.28E-05	0.007098751
ENSMMUG00000054417		1.014220487	5.47E-06	0.002304002
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	1.827405549	0.000792563	0.049601594
ENSMMUG00000056363		1.800321186	0.000263012	0.026402578
ENSMMUG00000063570	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.798768858	0.000310498	0.029038165
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	1.601898564	5.78E-05	0.010902975
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	1.413932488	0.000358851	0.030438362
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	1.668075363	0.000273173	0.026801249
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.791056734	3.34E-05	0.007098751
ENSMMUG00000058817		2.393701793	0.000353173	0.030190734
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	1.88159181	0.000477382	0.035936831
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	2.193566335	0.000262231	0.026402578
ENSMMUG00000037485		-3.9442309	0.000742465	0.048164247
ENSMMUG00000062419		3.180710033	0.000342592	0.030190734
ENSMMUG00000006547	ATPase H+ transporting V0 subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]	4.775167942	6.92E-05	0.01239673
ENSMMUG00000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	2.500776495	0.000141606	0.017809864
ENSMMUG00000059412		0.840819827	0.000127172	0.016180472
ENSMMUG00000018739	sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]	3.467622683	0.000125461	0.016150585
ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]	1.175341665	0.000459707	0.035423303
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	2.142759763	7.32E-06	0.002762249

ENSMMUG00000061973		2.491265524	1.38E-09	2.51E-06
ENSMMUG00000051661		1.532440727	0.000684651	0.045679585
ENSMMUG00000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	3.196143533	6.52E-14	2.38E-10
ENSMMUG00000056790		2.462383272	0.000348679	0.030190734
ENSMMUG00000005314	elongation factor for RNA polymerase II 2 [Source:VGNC Symbol;Acc:VGNC:84368]	1.085728671	3.16E-05	0.007098751
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	1.867584599	1.09E-15	1.20E-11
ENSMMUG00000053384		-1.62822039	2.54E-14	1.39E-10
ENSMMUG00000008710	protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]	1.884079778	0.000497505	0.036619568
ENSMMUG00000002272	clathrin interactor 1 [Source:VGNC Symbol;Acc:VGNC:84289]	2.146590882	0.000541453	0.038977517
ENSMMUG00000057859		1.835706813	0.000793299	0.049601594
ENSMMUG00000008228	unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]	2.166314091	0.000198993	0.021773856
ENSMMUG00000060903		1.231647707	3.61E-05	0.007315287
ENSMMUG00000051427		1.357785992	3.44E-05	0.007098751
ENSMMUG00000008525	minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]	3.056891703	0.00010106	0.01492606
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	2.244753783	0.000418967	0.033708359
ENSMMUG00000006430	androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:69667]	2.203526362	0.00036385	0.030624947
ENSMMUG00000011858	bone morphogenetic protein 5 [Source:VGNC Symbol;Acc:VGNC:70264]	1.514546734	0.000201158	0.021792754
ENSMMUG00000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	2.061836872	3.80E-07	0.000277358
ENSMMUG00000023381	dynein axonemal heavy chain 8 [Source:VGNC Symbol;Acc:VGNC:71943]	0.829374492	0.000604494	0.042399811
ENSMMUG00000017374	G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]	2.356057688	0.000336855	0.030190734
ENSMMUG00000007504	myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]	2.785340675	0.000518223	0.037552266
ENSMMUG00000010797	phosphatidylinositol glycan anchor biosynthesis class B [Source:VGNC Symbol;Acc:VGNC:75985]	1.187849006	3.37E-06	0.001604891
ENSMMUG00000063378		0.762638711	0.000110642	0.015133111
ENSMMUG00000052263		1.214908762	2.28E-05	0.005801396
ENSMMUG00000006457	Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]	2.331467638	0.000164174	0.019316029
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	1.575724432	8.66E-05	0.014363391
ENSMMUG00000012452	transglutaminase 1 [Source:NCBI gene;Acc:715854]	-3.78232951	0.000474324	0.035936831
ENSMMUG00000011779	HEAT repeat containing 5A [Source:VGNC Symbol;Acc:VGNC:84347]	0.962324861	8.91E-06	0.0032482
ENSMMUG00000062649		0.824320429	0.000346653	0.030190734

ENSMMUG0000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	1.149055025	0.000344798	0.030190734
ENSMMUG00000012894	NHS actin remodeling regulator [Source:VGNC Symbol;Acc:VGNC:75348]	3.126546373	8.01E-07	0.000515582
ENSMMUG00000049267		3.627854985	3.23E-05	0.007098751
ENSMMUG00000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	2.051749441	2.71E-05	0.006579148
ENSMMUG00000009622	glypican 3 [Source:VGNC Symbol;Acc:VGNC:73117]	2.096837976	2.18E-05	0.005678453
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]	-3.0126822	6.92E-06	0.002762249
ENSMMUG00000054357		4.149634226	0.000717746	0.047027387
ENSMMUG00000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	1.969273741	0.00068423	0.045679585
ENSMMUG00000059732		2.212349998	0.000269434	0.026801249
ENSMMUG00000060115		-0.70024931	0.000104292	0.015015247
ENSMMUG00000016902	catenin alpha 3 [Source:VGNC Symbol;Acc:VGNC:82131]	1.016249282	5.19E-06	0.002271018
ENSMMUG00000007982	structural maintenance of chromosomes 3 [Source:VGNC Symbol;Acc:VGNC:77769]	2.280672691	0.000160367	0.019073229
ENSMMUG00000019883	RNA binding motif protein 20 [Source:NCBI gene;Acc:698677]	2.326587204	9.97E-05	0.01492606
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	3.395020921	1.41E-05	0.004293315
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	1.209147182	1.53E-05	0.004519793
ENSMMUG00000056014	potassium inwardly rectifying channel subfamily J member 8 [Source:NCBI gene;Acc:706369]	2.076843638	0.000506812	0.036970252
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	0.903750193	0.000122301	0.015988885
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	1.977877619	5.11E-09	6.98E-06
ENSMMUG00000006529	acid sensing ion channel subunit 1 [Source:VGNC Symbol;Acc:VGNC:70035]	-1.40336575	0.000348893	0.030190734
ENSMMUG00000022922	nuclear receptor subfamily 4 group A member 1 [Source:VGNC Symbol;Acc:VGNC:75517]	0.536417557	0.000318075	0.029494755
ENSMMUG00000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	1.650791501	0.000489518	0.036437427
ENSMMUG00000011650	dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]	1.715832224	0.000297307	0.028288072
ENSMMUG00000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	2.637819794	3.44E-05	0.007098751
ENSMMUG00000059782		3.021181862	1.84E-05	0.005168888
ENSMMUG00000020926	syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]	3.182035252	9.89E-05	0.01492606
ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.649935058	1.27E-05	0.003963861
ENSMMUG00000002678	integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]	1.287153651	0.000449504	0.034882763
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	1.885459502	0.000766245	0.049030713
ENSMMUG00000054462		0.887914187	0.000424367	0.033893593
ENSMMUG00000016077	isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]	2.970510391	5.10E-06	0.002271018

ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	-	2.971809731	7.41E-12	2.03E-08
ENSMMUG00000005295	parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]	-	3.243895173	0.000276781	0.026801249
ENSMMUG000000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	-	2.176529001	0.000383587	0.03155799
ENSMMUG00000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	-	1.123820765	0.000498658	0.036619568
ENSMMUG000000050864		-	1.584748982	1.93E-05	0.005282795
ENSMMUG000000061815		-	1.743974661	3.14E-09	4.90E-06
ENSMMUG000000053898	chromosome 14 C11orf1 homolog [Source:NCBI gene;Acc:100430882]	-	1.66551096	0.000108218	0.01502534
ENSMMUG00000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	-	2.051290983	0.000102308	0.01492606
ENSMMUG00000002250	beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]	-	3.890076963	5.53E-05	0.010809378
ENSMMUG00000019357	elongator complex protein 1 [Source:VGNC Symbol;Acc:VGNC:72257]	-	1.009412387	1.75E-06	0.000956245
ENSMMUG00000019355	actin like 7A [Source:VGNC Symbol;Acc:VGNC:69417]	-	1.819890015	0.000185705	0.021166523
ENSMMUG00000019354	actin like 7B [Source:VGNC Symbol;Acc:VGNC:69421]	-	2.676647327	7.50E-07	0.000512934
ENSMMUG000000058311		-	2.128788248	0.000626844	0.043517807
ENSMMUG00000000802	regulatory factor X3 [Source:VGNC Symbol;Acc:VGNC:76908]	-	3.397269697	9.71E-05	0.01492606
ENSMMUG00000000291	leucine rich repeat transmembrane neuronal 1 [Source:VGNC Symbol;Acc:VGNC:74315]	-	1.015352518	0.000440661	0.034688593
ENSMMUG00000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	-	6.332494804	2.01E-07	0.000199726
ENSMMUG00000007001	protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]	-	5.599090681	6.91E-05	0.01239673
ENSMMUG000000051814		-	1.098278497	0.000122744	0.015988885
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	-	1.425461212	0.000108481	0.01502534
ENSMMUG00000023007	RIB43A domain with coiled-coils 2 [Source:VGNC Symbol;Acc:VGNC:76726]	-	0.84746178	0.000671815	0.045376517
ENSMMUG000000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	-	2.206352706	3.09E-06	0.001536576
ENSMMUG000000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	-	0.895236777	0.000192112	0.021605388
ENSMMUG000000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	-	1.18693474	0.00037436	0.031032143
ENSMMUG00000018846	ZFP64 zinc finger protein [Source:VGNC Symbol;Acc:VGNC:78994]	-	0.611336061	0.000406941	0.032983359
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	-	1.475200175	0.000178907	0.020606328
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	-	1.147802774	0.0001141	0.01522537
ENSMMUG00000002330	ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]	-	1.966190426	0.000221339	0.023744
ENSMMUG000000055924		-	3.238648704	0.00034741	0.030190734
ENSMMUG000000030389		-	1.708429056	1.08E-05	0.003661513
ENSMMUG000000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]	-	1.287894735	0.000112072	0.015139464
ENSMMUG000000055048		-	1.581453141	3.20E-07	0.000251862
ENSMMUG000000055290	netrin 1 [Source:NCBI gene;Acc:717645]	-	1.202603103	3.12E-05	0.007098751

ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	- 2.496216346	- 4.23E-05	0.008419647
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	- 1.660908983	- 0.000153696	0.018685977
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	1.553798071	9.58E-05	0.01492606
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	1.693550635	2.11E-05	0.005623017
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	1.468605561	0.00027574	0.026801249
ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	- 2.669212573	- 4.98E-10	1.09E-06
ENSMMUG00000060015	axin 2 [Source:NCBI gene;Acc:718566]	0.877364559	8.01E-05	0.013563735
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	1.713599371	0.000429218	0.034032666
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	0.826677145	0.0007439	0.048164247
ENSMMUG00000020580	RPGRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]	1.644667592	8.06E-05	0.013563735
ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]	- 3.548006218	- 3.22E-07	0.000251862
ENSMMUG00000008942	carosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]	- 3.202220484	- 1.71E-06	0.000956245
ENSMMUG00000015702	divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]	- 4.623643951	- 0.000240566	0.025069263
ENSMMUG00000020905	chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]	- 2.703171959	- 0.0006676	0.045371929
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	- 1.469370254	- 0.000147029	0.018281687
ENSMMUG00000017246	lipoxxygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	- 1.186447702	- 0.000159464	0.019073229
ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]	2.501441232	0.000320904	0.029506998
ENSMMUG00000049523	ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]	- 1.391652057	- 0.000594344	0.041956877
ENSMMUG00000028925	HDGF like 2 [Source:NCBI gene;Acc:693476]	2.610463912	1.02E-05	0.003582661
ENSMMUG00000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	-1.9309469	7.02E-05	0.01239673
ENSMMUG00000016860	zinc finger protein 490 [Source:NCBI gene;Acc:100426568]	1.244240286	9.96E-05	0.01492606
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	1.398276991	0.00057311	0.040720604
ENSMMUG00000063342		- 1.173922597	- 0.000193505	0.021605388
ENSMMUG00000060455		- 2.832283211	- 0.000228931	0.024086227

B. Gender difference at baseline SD 1, SD 2 and SD 3

Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000048382		12.40050041	6.22E-09	4.12E-06
ENSMMUG00000005663	TATA-box binding protein associated factor 1 [Source:NCBI gene;Acc:698800]	11.47570839	8.91E-29	2.76E-25
ENSMMUG000000052170		8.645568873	2.52E-14	2.12E-11
ENSMMUG00000003251	X antigen family member 3 [Source:NCBI gene;Acc:698267]	0.971707024	7.07E-05	0.032797505
ENSMMUG00000000443	arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]	0.863165274	4.00E-05	0.019521922
ENSMMUG000000049497		0.803836438	2.81E-05	0.015344826
ENSMMUG000000056331	cAMP-dependent protein kinase catalytic subunit PRKX [Source:NCBI gene;Acc:106992273]	3.061226405	1.93E-40	8.98E-37
ENSMMUG000000061238		3.931793344	9.27E-05	0.03913001
ENSMMUG000000043715	eukaryotic translation initiation factor 1A, Y-linked [Source:NCBI gene;Acc:100270695]	5.554280245	1.05E-17	1.21E-14
ENSMMUG000000049458		6.139302339	8.80E-05	0.038890143
ENSMMUG000000011380	consortin, connexin sorting protein [Source:VGNC Symbol;Acc:VGNC:71355]	6.592307293	3.52E-05	0.018162707
ENSMMUG000000061378		6.869468809	7.42E-06	0.004305617
ENSMMUG000000046495	transducin beta like 1 Y-linked [Source:NCBI gene;Acc:100270702]	8.49958099	4.58E-08	2.83E-05
ENSMMUG000000045017	lysine demethylase 5D [Source:NCBI gene;Acc:100270697]	8.973945749	4.12E-18	5.46E-15
ENSMMUG000000038331	ribosomal protein S4 Y-linked 1 [Source:NCBI gene;Acc:100270700]	10.32876473	1.50E-52	1.39E-48
ENSMMUG000000054467		10.8029957	1.22E-13	8.69E-11
ENSMMUG000000046378	zinc finger protein Y-linked [Source:NCBI gene;Acc:100270705]	10.99460396	7.93E-16	8.18E-13
ENSMMUG000000038182	ubiquitously transcribed tetratricopeptide repeat containing, Y-linked [Source:NCBI gene;Acc:100270704]	11.01699709	1.15E-26	2.66E-23
ENSMMUG000000049104	chromosome Y open reading frame 15A [Source:NCBI gene;Acc:100270688]	11.0911694	3.00E-14	2.32E-11
ENSMMUG000000038824	ribosomal protein S4, Y-linked 2 [Source:NCBI gene;Acc:100270701]	11.46762036	4.04E-15	3.75E-12
ENSMMUG000000045991	ubiquitin specific peptidase 9 Y-linked [Source:NCBI gene;Acc:100270703]	12.24304044	2.66E-19	4.94E-16
ENSMMUG000000043966	DEAD-box helicase 3 Y-linked [Source:NCBI gene;Acc:100270694]	13.04159924	3.45E-19	5.34E-16

SD 1

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000048382		12.72612268	5.91E-42	4.05E-38
ENSMMUG00000005663	TATA-box binding protein associated factor 1 [Source:NCBI gene;Acc:698800]	10.12731103	1.52E-26	4.16E-23
ENSMMUG000000052170		7.126708497	6.10E-10	5.98E-07
ENSMMUG000000055976	CD99 antigen [Source:NCBI gene;Acc:106995376] neuronal pentraxin 2 [Source:VGNC Symbol;Acc:VGNC:75392]	1.079554007	4.91E-06	0.003957156
ENSMMUG000000011970		1.082827576	7.82E-05	0.044727907
ENSMMUG000000063639		1.10979586	4.66E-05	0.030455269
ENSMMUG000000062784		1.422861322	7.83E-05	0.044727907
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	1.473638892	2.57E-05	0.018554447
ENSMMUG000000010647	inducible T cell costimulator ligand [Source:NCBI gene;Acc:722191]	1.508937615	7.23E-05	0.044727907
ENSMMUG000000061536		2.170144031	6.75E-06	0.00514005
ENSMMUG000000056331	cAMP-dependent protein kinase catalytic subunit PRKX [Source:NCBI gene;Acc:106992273]	3.201942881	4.14E-14	4.74E-11
ENSMMUG000000049458		5.556814465	3.37E-05	0.023080342
ENSMMUG000000061378		6.52454562	4.71E-07	0.000403565
ENSMMUG000000043715	eukaryotic translation initiation factor 1A, Y-linked [Source:NCBI gene;Acc:100270695]	6.540783183	1.82E-08	1.66E-05
ENSMMUG000000049104	chromosome Y open reading frame 15A [Source:NCBI gene;Acc:100270688]	9.224300224	3.40E-13	3.59E-10
ENSMMUG000000038824	ribosomal protein S4, Y-linked 2 [Source:NCBI gene;Acc:100270701]	10.4149722	2.89E-17	3.60E-14
ENSMMUG000000054467		10.45119843	2.55E-18	3.50E-15
ENSMMUG000000045991	ubiquitin specific peptidase 9 Y-linked [Source:NCBI gene;Acc:100270703]	10.78383632	3.53E-27	1.21E-23
ENSMMUG000000038182	ubiquitously transcribed tetratricopeptide repeat containing, Y-linked [Source:NCBI gene;Acc:100270704]	10.79383861	4.36E-36	1.99E-32
ENSMMUG000000038331	ribosomal protein S4 Y-linked 1 [Source:NCBI gene;Acc:100270700]	10.82864482	1.36E-44	1.86E-40
ENSMMUG000000045017	lysine demethylase 5D [Source:NCBI gene;Acc:100270697]	10.85105686	1.30E-19	1.99E-16
ENSMMUG000000046378	zinc finger protein Y-linked [Source:NCBI gene;Acc:100270705]	11.08371724	6.55E-24	1.28E-20
ENSMMUG000000046495	transducin beta like 1 Y-linked [Source:NCBI gene;Acc:100270702]	11.4173515	1.53E-20	2.63E-17
ENSMMUG000000043966	DEAD-box helicase 3 Y-linked [Source:NCBI gene;Acc:100270694]	12.23148136	2.76E-24	6.30E-21

SD 2

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000048382		11.73134815	1.34E-29	1.36E-26
ENSMMUG00000005663	TATA-box binding protein associated factor 1 [Source:NCBI gene;Acc:698800]	10.41796533	1.34E-23	6.79E-21
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	1.690594055	8.88E-05	0.00681255
ENSMMUG00000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	1.659145662	4.50E-06	0.000702787
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	1.402629288	4.07E-05	0.003671844
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	1.398134173	3.51E-05	0.003605558
ENSMMUG000000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	1.309298662	0.00023321	0.013539526
ENSMMUG000000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-1.26091157	2.25E-06	0.000422954
ENSMMUG000000054942		1.257318217	0.001314802	0.042062673
ENSMMUG000000059188		1.255538887	0.000133577	0.009359619
ENSMMUG000000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-1.22766829	6.15E-05	0.004902027
ENSMMUG000000049678		1.197169852	8.72E-06	0.001181862
ENSMMUG00000003042	VPS53 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:79522]	1.157008237	0.000931032	0.033190483
ENSMMUG000000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	1.154996711	0.001343273	0.042318293
ENSMMUG00000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.113424049	4.78E-05	0.004136455
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	1.041241187	0.001324809	0.042062673
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	1.036748234	0.000566337	0.024948991
ENSMMUG00000014508	potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]	1.014107024	0.000545635	0.02476755
ENSMMUG000000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	1.000135184	1.52E-05	0.001877533
ENSMMUG000000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]	0.969862718	0.001276243	0.042062673
ENSMMUG000000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	-0.9599185	9.83E-07	0.000199718
ENSMMUG000000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	0.955887406	0.00069232	0.027584197
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]	0.951913041	0.00141247	0.043486956
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	0.947282582	0.000244462	0.013992863
ENSMMUG000000049548		-0.94250456	0.001506802	0.044374236
ENSMMUG000000059182		0.930507413	0.000548494	0.02476755
ENSMMUG00000003317	lysine demethylase 6A [Source:VGNC Symbol;Acc:VGNC:73820]	0.925756819	1.34E-05	0.001706925
ENSMMUG000000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	0.913134161	0.000269465	0.014798712

ENSMMUG00000062863		-	0.894367063	0.001450398	0.04348889
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	-	0.888806613	0.000685564	0.027584197
ENSMMUG00000000695	transmembrane protein 245 [Source:VGNC Symbol;Acc:VGNC:78933]	-	0.886562539	0.000570929	0.024948991
ENSMMUG00000007366		-	0.882731137	0.000177769	0.011232376
ENSMMUG00000009038	titin [Source:NCBI gene;Acc:703527]	-	0.875850201	0.001061887	0.035962579
ENSMMUG00000019703	RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]	-	0.858835056	7.77E-07	0.000166258
ENSMMUG00000050608		-	0.845647822	0.00145929	0.04348889
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	-	0.835566367	0.000535739	0.024741393
ENSMMUG00000008338	Wnt family member 9A [Source:VGNC Symbol;Acc:VGNC:78796]	-	-0.82992511	0.000132466	0.009359619
ENSMMUG00000056840		-	0.816772139	0.001303617	0.042062673
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	-	0.801912897	2.53E-05	0.002936506
ENSMMUG00000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	-	0.793849892	0.000127854	0.009278534
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	-	0.790765904	2.47E-05	0.002936506
ENSMMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]	-	0.783647639	0.000673973	0.027584197
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	-	0.774608471	0.00088481	0.031821822
ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	-	0.769526708	0.000479447	0.022923194
ENSMMUG00000065025		-	0.759846363	0.000307176	0.016212522
ENSMMUG00000052586		-	0.754885073	4.54E-05	0.004009339
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	-	0.742224604	0.000775984	0.029205453
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	-	0.737858275	0.000413462	0.020744557
ENSMMUG00000055741		-	0.737077739	0.000631892	0.026204156
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	-	-0.7322892	0.001558803	0.045575349
ENSMMUG00000016361	apolipoprotein O [Source:NCBI gene;Acc:698137]	-	0.729953881	0.000684342	0.027584197
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	-	0.725219038	0.000776129	0.029205453
ENSMMUG00000060761		-	0.724121229	0.000397065	0.020170922
ENSMMUG00000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	-	0.724005944	0.001451656	0.04348889
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	-	-0.72211338	0.0001216	0.008985165
ENSMMUG00000018274	FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]	-	0.710363534	0.000498974	0.023579444

ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	-	0.703454447	5.40E-05	0.004568262
ENSMMUG00000016686	BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]	-	0.701789405	0.000824772	0.030751131
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	-	0.691326322	0.000999259	0.034415147
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	-	0.689682922	5.26E-06	0.000791338
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	-	0.688023512	2.78E-05	0.003056226
ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	-	0.670541742	0.001030125	0.035180072
ENSMMUG00000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	-	0.666688091	3.64E-05	0.003605558
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	-	0.663818417	0.000328437	0.017112431
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	-	0.659500873	3.90E-05	0.003605558
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	-	0.656767746	0.000283546	0.015162249
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	-	0.634309558	0.001466038	0.04348889
ENSMMUG00000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	-	0.630737435	0.001150021	0.038460931
ENSMMUG00000006182	bromodomain adjacent to zinc finger domain 2B [Source:NCBI gene;Acc:702780]	-	-0.62913637	3.32E-05	0.003555964
ENSMMUG00000022741	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]	-	0.608836171	9.47E-05	0.007128621
ENSMMUG00000015108	SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]	-	0.585580478	0.001733155	0.049954203
ENSMMUG00000014431	adaptor related protein complex 3 subunit mu 2 [Source:VGNC Symbol;Acc:VGNC:69971]	-	-0.57522291	0.000578156	0.024996037
ENSMMUG00000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	-	0.567343748	0.000253657	0.014121425
ENSMMUG00000019261	collagen type XII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71291]	-	0.562890586	0.00044646	0.02160017
ENSMMUG000000058187		-	0.557491529	0.000227378	0.013392261
ENSMMUG00000011061	ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]	-	0.526355996	0.001306838	0.042062673
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	-	0.525259105	6.37E-05	0.004980371
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	-	0.524168692	0.001408327	0.043486956
ENSMMUG00000010428	slit guidance ligand 1 [Source:VGNC Symbol;Acc:VGNC:77643]	-	0.448467481	0.000996451	0.034415147
ENSMMUG000000064147	lymphocyte antigen 6 family member L [Source:NCBI gene;Acc:106999990]	-	0.536461856	0.001400082	0.043486956
ENSMMUG00000017707	leucine rich repeat containing 8 VRAC subunit B [Source:VGNC Symbol;Acc:VGNC:81439]	-	0.556648649	0.000849004	0.031084272
ENSMMUG00000012020	nuclear receptor coactivator 3 [Source:VGNC Symbol;Acc:VGNC:75147]	-	0.568527452	0.000709394	0.027990055
ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	-	0.609518627	5.65E-05	0.00468291
ENSMMUG00000013747	secretory carrier membrane protein 4 [Source:VGNC Symbol;Acc:VGNC:77135]	-	0.646221301	0.001154585	0.038460931

ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]	0.673088142	0.000587464	0.025131079
ENSMMUG00000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]	0.673579018	0.000144715	0.009641365
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	0.751332124	0.000201633	0.012230373
ENSMMUG00000007551	ribosomal protein L13a [Source:NCBI gene;Acc:574314]	0.764179278	0.001462608	0.04348889
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	0.769313842	0.000422794	0.020954104
ENSMMUG00000019891	aldo-keto reductase family 1 member C15 [Source:NCBI gene;Acc:722485]	0.779237323	0.000433812	0.021241117
ENSMMUG00000011963	vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]	0.792572746	7.12E-06	0.001033858
ENSMMUG00000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	0.804637474	9.98E-06	0.001308629
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	0.810186869	0.000873391	0.031691607
ENSMMUG00000009615	IMP U3 small nucleolar ribonucleoprotein 4 [Source:VGNC Symbol;Acc:VGNC:73689]	0.816005368	0.000507124	0.023689123
ENSMMUG00000046141	defensin beta 123 [Source:NCBI gene;Acc:619504]	0.829245275	0.00075787	0.029205453
ENSMMUG00000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	0.837718717	3.83E-05	0.003605558
ENSMMUG00000058281	ITPRIP like 2 [Source:NCBI gene;Acc:694060]	0.897104656	0.000138698	0.009553689
ENSMMUG00000064395		0.898878794	0.00027825	0.015077464
ENSMMUG00000007570	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	0.916613344	0.000210857	0.012601807
ENSMMUG00000022973	gametogenetin [Source:VGNC Symbol;Acc:VGNC:72740]	0.921894235	2.46E-06	0.000434623
ENSMMUG00000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	0.928621656	3.86E-05	0.003605558
ENSMMUG00000012486	retinoic acid receptor alpha [Source:VGNC Symbol;Acc:VGNC:76662]	0.930461565	0.001695952	0.049231061
ENSMMUG00000023291	COPI coat complex subunit epsilon [Source:VGNC Symbol;Acc:VGNC:71314]	0.931191172	0.000595687	0.025217429
ENSMMUG00000061747		0.942734184	0.000248142	0.014006231
ENSMMUG00000012007	PH domain and leucine rich repeat protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:81494]	0.96532815	0.000350173	0.018013985
ENSMMUG00000004614	potassium voltage-gated channel subfamily C member 4 [Source:VGNC Symbol;Acc:VGNC:73974]	0.9879738	0.000765849	0.029205453
ENSMMUG00000031785		0.989846624	5.98E-05	0.004861153
ENSMMUG00000015414	family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]	1.056809399	0.001322065	0.042062673
ENSMMUG00000061935		1.057343572	0.000982387	0.034415147
ENSMMUG00000063639		1.064280232	0.000560375	0.024948991
ENSMMUG00000011413	acid sensing ion channel subunit 2 [Source:VGNC Symbol;Acc:VGNC:70241]	1.096925961	3.24E-07	7.32E-05
ENSMMUG00000019668	armadillo repeat containing 6 [Source:VGNC Symbol;Acc:VGNC:69899]	1.175119272	0.00014365	0.009641365
ENSMMUG00000017150	mitochondrial antiviral signaling protein [Source:VGNC Symbol;Acc:VGNC:74609]	1.218946813	0.000171038	0.011033314
ENSMMUG00000021022	deoxynucleotidyltransferase terminal interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:71845]	1.234091822	2.65E-05	0.002986415
ENSMMUG00000003238	pregnancy zone protein [Source:NCBI gene;Acc:100430319]	1.244818629	0.000161139	0.01056239
ENSMMUG00000051291	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.281062765	0.000626051	0.026204156
ENSMMUG00000051681	retrotransposon Gag like 6 [Source:NCBI gene;Acc:712760]	1.322918549	8.47E-06	0.001181862
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	1.414516416	2.94E-06	0.000498225

ENSMMUG00000010647	inducible T cell costimulator ligand [Source:NCBI gene;Acc:722191]	1.418964912	0.000833032	0.030776751
ENSMMUG00000039671	tetratricopeptide repeat domain 9C [Source:NCBI gene;Acc:718583]	1.436346887	1.03E-08	2.62E-06
ENSMMUG00000056220	follistatin like 3 [Source:NCBI gene;Acc:721100]	1.533212181	0.000183457	0.011296513
ENSMMUG00000064448		1.551175113	0.000179652	0.011232376
ENSMMUG00000002652	zinc finger MIZ-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79350]	1.571739231	0.00097006	0.034281074
ENSMMUG00000054447	T-box transcription factor 22 [Source:NCBI gene;Acc:708338]	1.611825936	3.76E-05	0.003605558
ENSMMUG00000052867		1.612217353	4.94E-08	1.18E-05
ENSMMUG00000053541		1.655420904	0.00075514	0.029205453
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	1.713215271	2.29E-06	0.000422954
ENSMMUG00000013098	aldo-keto reductase family 1 member B10 [Source:NCBI gene;Acc:713150]	1.771530793	4.38E-06	0.000702787
ENSMMUG00000000590	NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]	1.886115616	7.76E-11	2.10E-08
ENSMMUG00000056331	cAMP-dependent protein kinase catalytic subunit PRKX [Source:NCBI gene;Acc:106992273]	3.780075866	1.31E-29	1.36E-26
ENSMMUG00000043715	eukaryotic translation initiation factor 1A, Y-linked [Source:NCBI gene;Acc:100270695]	5.288162649	3.28E-22	1.48E-19
ENSMMUG00000038824	ribosomal protein S4, Y-linked 2 [Source:NCBI gene;Acc:100270701]	10.01837482	8.32E-18	2.82E-15
ENSMMUG00000038182	ubiquitously transcribed tetratricopeptide repeat containing, Y-linked [Source:NCBI gene;Acc:100270704]	10.18360717	8.06E-62	3.28E-58
ENSMMUG00000049104	chromosome Y open reading frame 15A [Source:NCBI gene;Acc:100270688]	10.25028893	1.10E-17	3.45E-15
ENSMMUG00000045017	lysine demethylase 5D [Source:NCBI gene;Acc:100270697]	10.40641836	1.83E-19	7.43E-17
ENSMMUG00000054467		10.67725419	4.53E-19	1.67E-16
ENSMMUG00000046495	transducin beta like 1 Y-linked [Source:NCBI gene;Acc:100270702]	10.75945441	1.30E-17	3.79E-15
ENSMMUG00000045991	ubiquitin specific peptidase 9 Y-linked [Source:NCBI gene;Acc:100270703]	10.89995319	9.04E-39	1.84E-35
ENSMMUG00000046378	zinc finger protein Y-linked [Source:NCBI gene;Acc:100270705]	11.57468486	7.21E-24	4.19E-21
ENSMMUG00000043966	DEAD-box helicase 3 Y-linked [Source:NCBI gene;Acc:100270694]	12.63365142	2.96E-26	2.00E-23
ENSMMUG00000038331	ribosomal protein S4 Y-linked 1 [Source:NCBI gene;Acc:100270700]	13.02149041	2.11E-29	1.71E-26

SD 3

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000048382		12.67716491	6.20E-35	4.55E-31
ENSMMUG00000005663	TATA-box binding protein associated factor 1 [Source:NCBI gene;Acc:698800]	10.13578971	8.33E-26	2.04E-22
ENSMMUG000000052170		7.080370226	6.05E-10	5.92E-07
ENSMMUG000000063913	endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]	2.937260013	4.43E-05	0.036117762
ENSMMUG000000063639		0.791761162	5.05E-05	0.037467781
ENSMMUG000000056331	cAMP-dependent protein kinase catalytic subunit PRKX [Source:NCBI gene;Acc:106992273]	3.432802738	5.35E-34	2.62E-30
ENSMMUG000000043715	eukaryotic translation initiation factor 1A, Y-linked [Source:NCBI gene;Acc:100270695]	4.947544777	1.77E-12	1.86E-09
ENSMMUG000000061238		5.184881491	5.10E-05	0.037467781
ENSMMUG000000049458		5.94431278	2.79E-05	0.024060449
ENSMMUG000000061378		6.630399362	5.12E-07	0.000469584
ENSMMUG000000046495	transducin beta like 1 Y-linked [Source:NCBI gene;Acc:100270702]	8.154191346	3.29E-17	4.40E-14
ENSMMUG000000049104	chromosome Y open reading frame 15A [Source:NCBI gene;Acc:100270688]	9.566927405	2.12E-15	2.40E-12
ENSMMUG000000038824	ribosomal protein S4, Y-linked 2 [Source:NCBI gene;Acc:100270701]	9.66619019	1.46E-15	1.79E-12
ENSMMUG000000054467		10.38457532	5.01E-18	7.35E-15
ENSMMUG000000038331	ribosomal protein S4 Y-linked 1 [Source:NCBI gene;Acc:100270700]	10.60935258	3.80E-46	5.58E-42
ENSMMUG000000046378	zinc finger protein Y-linked [Source:NCBI gene;Acc:100270705]	10.75695453	1.02E-29	3.00E-26
ENSMMUG000000045017	lysine demethylase 5D [Source:NCBI gene;Acc:100270697]	11.14527275	1.22E-20	2.00E-17
ENSMMUG000000038182	ubiquitously transcribed tetratricopeptide repeat containing, Y-linked [Source:NCBI gene;Acc:100270704]	11.34050983	2.85E-33	1.05E-29
ENSMMUG000000043966	DEAD-box helicase 3 Y-linked [Source:NCBI gene;Acc:100270694]	12.04650218	1.16E-23	2.13E-20
ENSMMUG000000045991	ubiquitin specific peptidase 9 Y-linked [Source:NCBI gene;Acc:100270703]	12.44357154	2.39E-25	5.01E-22

C. Survivor's group radiation effects

SD 1 vs Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000057073		7.043931359	2.82E-08	6.34E-07
ENSMMUG00000020926	syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]	6.785036445	5.77E-07	9.83E-06
ENSMMUG00000016331	glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]	5.866576356	6.12E-05	0.000598266
ENSMMUG00000058133		-5.49968977	6.07E-05	0.000595376
ENSMMUG00000055207		5.486997792	1.25E-05	0.000151044
ENSMMUG00000018565	ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]	5.326805841	9.76E-06	0.00012176
ENSMMUG00000005200	PC-esterase domain containing 1A [Source:VGNC Symbol;Acc:VGNC:75622]	5.306466191	0.002243594	0.012184722
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	5.304037014	1.43E-05	0.000168168
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]	5.303575845	0.000402467	0.002949885
ENSMMUG00000052440		5.243246791	0.00275874	0.01436109
ENSMMUG00000049720		5.226864134	0.001356067	0.008094601
ENSMMUG00000063570	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.154281405	0.006740285	0.029573719
ENSMMUG00000053550		5.119052893	0.001867675	0.010494107
ENSMMUG00000018739	sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]	5.067519356	0.000464924	0.003350978
ENSMMUG00000001245	zinc finger protein 532 [Source:NCBI gene;Acc:701146]	4.903047061	0.001011249	0.00634329
ENSMMUG00000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	4.896335417	3.23E-05	0.000343645
ENSMMUG00000052887		4.894702149	0.000798087	0.005266591
ENSMMUG00000038587	prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]	4.882762075	0.001170548	0.007143969
ENSMMUG00000013799	ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]	4.846850032	0.000115682	0.001031423
ENSMMUG00000021008	ankyrin repeat and SOCS box containing 14 [Source:VGNC Symbol;Acc:VGNC:84237]	4.801638521	0.001436452	0.008480156
ENSMMUG00000063228		-4.79913608	0.002035139	0.011254038
ENSMMUG00000010067	MINDY lysine 48 deubiquitinase 1 [Source:VGNC Symbol;Acc:VGNC:74828]	4.731481605	0.001696361	0.00972311
ENSMMUG00000008525	minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]	4.704602183	0.002049707	0.011317266
ENSMMUG00000007504	myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]	-4.64189733	0.002683193	0.014096521
ENSMMUG00000064344	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.608583332	0.001751794	0.009972244
ENSMMUG00000017628	pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]	4.544786946	0.00015344	0.001305743
ENSMMUG00000003123	adaptor related protein complex 4 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:84304]	4.508084785	0.005433214	0.024950408

ENSMMUG0000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	-	4.486252439	1.20E-05	0.000145981
ENSMMUG00000052929		-	4.382239706	1.10E-08	2.72E-07
ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	-	4.323522628	2.40E-25	1.62E-22
ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]	-	-4.27546277	4.91E-11	2.02E-09
ENSMMUG00000006547	ATPase H+ transporting V0 subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]	-	4.254464232	0.001077528	0.006677835
ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]	-	-4.24894124	4.86E-06	6.44E-05
ENSMMUG00000054953	leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]	-	4.212856178	0.004022328	0.019470007
ENSMMUG00000018163	caspase 9 [Source:NCBI gene;Acc:694544]	-	4.191630002	0.006641903	0.029213047
ENSMMUG00000016019	PDZ binding kinase [Source:VGNC Symbol;Acc:VGNC:75643]	-	4.154579671	0.003310201	0.016632379
ENSMMUG00000038319	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	4.150946597	0.003780008	0.018569005
ENSMMUG00000060346		-	4.093035323	3.98E-10	1.33E-08
ENSMMUG00000051100	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-4.07476891	0.003422625	0.017102075
ENSMMUG00000007187	haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]	-	4.052688955	0.003885849	0.018944826
ENSMMUG00000012473	proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]	-	4.004768833	0.000291615	0.002237302
ENSMMUG00000062017		-	3.972679421	0.002355118	0.01269935
ENSMMUG00000021049	ret finger protein-like 3 [Source:NCBI gene;Acc:705507]	-	3.963675535	0.000248019	0.001959733
ENSMMUG00000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	-	3.929878537	4.71E-06	6.27E-05
ENSMMUG00000061408		-	3.915396962	0.000818686	0.00537179
ENSMMUG00000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	-	3.895666728	0.000160929	0.001363049
ENSMMUG00000015202		-	3.892320158	0.001303465	0.007844684
ENSMMUG00000014809	heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]	-	3.875206018	0.007775568	0.032929136
ENSMMUG00000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	-	3.873447857	0.000246496	0.001954828
ENSMMUG00000027108	mml-mir-193b [Source:miRBase;Acc:MI0007656]	-	3.869802203	0.000780543	0.005173328
ENSMMUG00000033102	mml-mir-181b-2 [Source:miRBase;Acc:MI0007646]	-	3.851746192	0.007831824	0.033128525
ENSMMUG00000055028		-	3.848773137	0.010327777	0.041108091
ENSMMUG00000056790		-	-3.83357624	1.85E-08	4.42E-07
ENSMMUG00000012452	transglutaminase 1 [Source:NCBI gene;Acc:715854]	-	3.832203488	0.011706537	0.045051171
ENSMMUG00000023138	bromodomain containing 2 [Source:VGNC Symbol;Acc:VGNC:83422]	-	3.830189483	0.002674664	0.014062576
ENSMMUG00000057651	frizzled class receptor 5 [Source:NCBI gene;Acc:710796]	-	3.823426671	0.003293018	0.016569095
ENSMMUG00000051936		-	3.806021938	3.13E-05	0.000335909

ENSMMUG00000052605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.800746157	0.000101858	0.000924145
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	-	3.798793075	3.19E-10	1.09E-08
ENSMMUG00000057859		-	3.778651887	4.99E-07	8.75E-06
ENSMMUG00000051008		-	-3.77080511	0.010614403	0.04196563
ENSMMUG00000015041	CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]	-	3.759733009	0.001008189	0.006327759
ENSMMUG00000004985	arylsulfatase L [Source:VGNC Symbol;Acc:VGNC:81361]	-	3.749518938	0.003169915	0.016061597
ENSMMUG00000059406	RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]	-	3.727265339	0.001012363	0.006346604
ENSMMUG00000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.695129894	0.000712886	0.004820656
ENSMMUG00000052535		-	-3.69337642	0.000304708	0.002324576
ENSMMUG00000003231	coiled-coil domain containing 33 [Source:VGNC Symbol;Acc:VGNC:70876]	-	3.650721006	0.008649131	0.035885115
ENSMMUG00000060541		-	3.632323246	0.0047086	0.022129399
ENSMMUG00000017008	GTPase, IMAP family member 2 [Source:VGNC Symbol;Acc:VGNC:72980]	-	3.613640379	0.004925594	0.02297974
ENSMMUG00000015909	TEA domain transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:78303]	-	-3.59998002	0.002874591	0.01480763
ENSMMUG00000051169		-	3.580115246	0.007239789	0.031250057
ENSMMUG00000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	-	3.575152009	6.19E-13	3.77E-11
ENSMMUG00000049314	dual specificity phosphatase 2 [Source:NCBI gene;Acc:718442]	-	-3.55465173	0.001418463	0.008387668
ENSMMUG00000054168	mitotic arrest deficient 2 like 1 [Source:NCBI gene;Acc:708574]	-	3.533898691	0.004874001	0.022794243
ENSMMUG00000026876	mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]	-	-3.50664035	0.002458095	0.013111053
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	-	3.495315924	9.64E-12	4.66E-10
ENSMMUG00000055229		-	3.478748948	3.27E-12	1.76E-10
ENSMMUG00000041415	alpha and gamma adaptin binding protein [Source:NCBI gene;Acc:711436]	-	3.454718882	0.001558337	0.009066912
ENSMMUG00000052786		-	3.430820049	0.003257438	0.016428224
ENSMMUG00000011129	cilia and flagella associated protein 221 [Source:VGNC Symbol;Acc:VGNC:71153]	-	3.417040735	0.012640751	0.047747229
ENSMMUG00000039085	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1 [Source:NCBI gene;Acc:100425753]	-	3.398619008	0.001629106	0.009412323
ENSMMUG00000017206	SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]	-	3.396076196	0.002782471	0.014462072
ENSMMUG00000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	-	3.389728871	2.88E-14	2.35E-12
ENSMMUG00000064752	phospholipase A2 activating protein [Source:NCBI gene;Acc:707876]	-	3.377656443	0.000928088	0.005917585
ENSMMUG00000051271		-	3.352566629	7.81E-09	1.98E-07
ENSMMUG00000006768	coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]	-	3.318136243	2.61E-05	0.000286362
ENSMMUG00000060836		-	3.317059456	0.003042063	0.015544654

ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	3.316674372	1.87E-05	0.000211738
ENSMMUG00000057031		3.315456576	0.00064955	0.00445071
ENSMMUG00000011575	coiled-coil domain containing 167 [Source:VGNC Symbol;Acc:VGNC:70833]	3.310343577	0.002376227	0.012781363
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	3.302863381	8.02E-12	3.95E-10
ENSMMUG00000063268		3.284276534	8.03E-05	0.000750996
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	3.280341401	3.90E-06	5.30E-05
ENSMMUG00000031821	chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]	3.267802862	0.001829027	0.010325091
ENSMMUG00000060940	acidic residue methyltransferase 1 [Source:NCBI gene;Acc:704570]	-3.26579096	0.002352204	0.012696277
ENSMMUG00000006457	Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]	3.250967763	0.002203683	0.012004245
ENSMMUG00000038661		3.238779338	1.81E-11	8.26E-10
ENSMMUG00000006446	transmembrane protein 177 [Source:VGNC Symbol;Acc:VGNC:79686]	3.235839027	0.006639556	0.029213047
ENSMMUG00000027053	mml-mir-194-1 [Source:miRBase;Acc:MI0003024]	-3.20606527	0.003547618	0.017588716
ENSMMUG00000010295	URB1 ribosome biogenesis homolog [Source:VGNC Symbol;Acc:VGNC:79074]	3.204449718	0.00362293	0.017880273
ENSMMUG00000055117		3.204277314	0.000594785	0.004137232
ENSMMUG00000008228	unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]	3.198206798	0.000179516	0.001493626
ENSMMUG00000065019	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-3.19696834	0.000741316	0.004961182
ENSMMUG00000055864		3.191899905	0.005807349	0.026234784
ENSMMUG00000045446		3.182784183	0.001762533	0.010022844
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	3.171658153	0.002268801	0.012295106
ENSMMUG00000039033	nucleolar protein with MIF4G domain 1 [Source:VGNC Symbol;Acc:VGNC:81729]	3.163300662	0.0132929	0.049869761
ENSMMUG00000054357		3.161641379	0.008753761	0.036180656
ENSMMUG00000049396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.156438142	0.003580454	0.017710986
ENSMMUG00000052818	death associated protein like 1 [Source:NCBI gene;Acc:699071]	3.149958879	0.010196677	0.040685303
ENSMMUG00000017211	peter pan homolog (Drosophila) [Source:NCBI gene;Acc:100533472]	3.143403863	0.007660269	0.032609868
ENSMMUG00000022484	ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]	3.136753343	0.004639002	0.021906848
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	3.134012253	7.84E-17	1.02E-14
ENSMMUG00000020993	cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]	3.124841458	1.41E-07	2.73E-06
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	3.122326671	1.62E-09	4.86E-08
ENSMMUG00000059241		3.119232293	1.74E-05	0.000200041

ENSMMUG00000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	-	3.118279906	5.36E-15	5.14E-13
ENSMMUG00000053235		-	3.115399075	0.004239678	0.020313325
ENSMMUG00000061452		-	3.114598301	0.0002098	0.001699894
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	-	3.109082667	1.95E-11	8.77E-10
ENSMMUG00000061973		-	3.102607018	3.52E-17	5.04E-15
ENSMMUG00000018911	protein kinase C zeta [Source:VGNC Symbol;Acc:VGNC:82212]	-	3.100872206	0.004005521	0.019421581
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]	-	3.099539086	9.17E-05	0.000840732
ENSMMUG00000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	-	3.099399756	3.68E-11	1.56E-09
ENSMMUG00000012690	myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]	-	3.097148143	0.008123043	0.034120561
ENSMMUG00000051385		-	3.096633228	1.20E-06	1.86E-05
ENSMMUG00000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	-	3.095307143	1.29E-13	8.88E-12
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	-	3.091740072	2.72E-08	6.16E-07
ENSMMUG00000011469	germ cell nuclear acidic peptidase [Source:VGNC Symbol;Acc:VGNC:72724]	-	3.087501262	0.002501504	0.013296758
ENSMMUG00000065058		-	3.082671762	0.010751203	0.042336527
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	-	3.069138715	1.03E-09	3.23E-08
ENSMMUG00000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	-	3.067318098	1.35E-11	6.38E-10
ENSMMUG00000062791		-	3.057127892	0.000128521	0.001131929
ENSMMUG00000019854	transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]	-	3.052797576	2.23E-06	3.22E-05
ENSMMUG00000023791	SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]	-	3.052442621	0.001434639	0.008474073
ENSMMUG00000064177		-	-3.03884591	0.011172035	0.043409846
ENSMMUG00000058603		-	-3.0354446	0.000696962	0.004730698
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	-	3.029563244	7.13E-17	9.42E-15
ENSMMUG00000064975	zinc finger protein 221 [Source:NCBI gene;Acc:100423743]	-	3.025945296	6.29E-06	8.13E-05
ENSMMUG00000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	-	3.021378697	1.47E-05	0.00017267
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	-	3.014846171	1.80E-09	5.34E-08
ENSMMUG00000044417	CD6 molecule [Source:NCBI gene;Acc:695183]	-	3.013882786	0.006211882	0.027658576
ENSMMUG00000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	-	-3.01254889	4.72E-14	3.70E-12
ENSMMUG00000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-2.96764625	2.54E-08	5.86E-07
ENSMMUG00000055783		-	2.962465845	0.000380108	0.002804762
ENSMMUG00000002167	mannose receptor C type 2 [Source:VGNC Symbol;Acc:VGNC:74784]	-	2.959083633	0.010336696	0.041109891

ENSMMUG00000052609	ribosomal protein L34 [Source:NCBI gene;Acc:696636]	2.947383522	1.49E-05	0.000174339
ENSMMUG00000063345		-2.94651448	0.002832394	0.014652971
ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]	2.936307733	0.000136215	0.001189058
ENSMMUG00000059019		2.924315916	1.53E-08	3.72E-07
ENSMMUG00000065008		2.917175065	0.00016107	0.001363184
ENSMMUG00000012120	zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]	2.899304811	6.18E-08	1.29E-06
ENSMMUG00000037458	endoplasmic reticulum resident protein 29 [Source:NCBI gene;Acc:720396]	2.897568726	0.011243648	0.043578688
ENSMMUG00000001664	arylacetamide deacetylase [Source:VGNC Symbol;Acc:VGNC:81172]	2.895798646	0.005046708	0.023484099
ENSMMUG00000002250	beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]	2.895706978	0.009023309	0.036970314
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	2.873269214	8.87E-07	1.42E-05
ENSMMUG00000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	2.863628458	3.94E-06	5.34E-05
ENSMMUG00000012894	NHS actin remodeling regulator [Source:VGNC Symbol;Acc:VGNC:75348]	2.862829465	0.001281056	0.007735608
ENSMMUG000000051670		2.851607942	1.29E-05	0.000154455
ENSMMUG000000052682		-2.84531156	1.40E-05	0.000165248
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	2.840942941	6.81E-14	5.06E-12
ENSMMUG00000010744		-2.84015204	0.008424726	0.03506149
ENSMMUG000000050493	paired related homeobox 2 [Source:NCBI gene;Acc:716699]	2.838497481	0.010845056	0.042551427
ENSMMUG000000055272	putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]	2.836033983	2.28E-06	3.29E-05
ENSMMUG00000009702	mutS homolog 5 [Source:NCBI gene;Acc:715494]	2.834500499	0.004320495	0.020663985
ENSMMUG000000054315		2.831873606	0.001480346	0.008687207
ENSMMUG000000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	2.824026135	3.64E-11	1.56E-09
ENSMMUG000000059101		2.823783851	0.001291225	0.007792666
ENSMMUG000000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]	2.816234632	0.000265851	0.00206597
ENSMMUG000000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	2.815208572	9.26E-14	6.66E-12
ENSMMUG00000002561	NOP2/Sun RNA methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75466]	2.814743002	0.001874401	0.010520924
ENSMMUG00000015151	interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]	2.809803053	0.000172071	0.001437464
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	2.802922692	3.23E-12	1.74E-10
ENSMMUG00000006217	general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]	2.791192661	7.83E-05	0.000735594
ENSMMUG00000012480	REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]	2.788372106	5.46E-07	9.38E-06

ENSMMUG00000056303		-	2.781296508	0.011642397	0.044867339
ENSMMUG00000039317	cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]	-	2.775548469	3.16E-05	0.000338804
ENSMMUG00000057276		-	2.770397448	4.05E-05	0.000418372
ENSMMUG00000000807	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [Source:VGNC Symbol;Acc:VGNC:79500]	-	2.767089774	0.001342947	0.008033212
ENSMMUG00000052830		-	2.766537061	2.43E-06	3.48E-05
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	-	2.752374072	2.48E-14	2.07E-12
ENSMMUG00000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	-	2.751224227	0.000146023	0.001256446
ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]	-	2.741255567	0.000505648	0.003606112
ENSMMUG00000028925	HDGF like 2 [Source:NCBI gene;Acc:693476]	-	-2.72869278	0.00991028	0.039806476
ENSMMUG00000004208	serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]	-	2.721437046	0.004318615	0.020663985
ENSMMUG00000013029	surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]	-	2.719210293	1.93E-06	2.83E-05
ENSMMUG00000054116	T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]	-	2.714207118	4.85E-09	1.28E-07
ENSMMUG00000053577		-	2.707618251	8.24E-05	0.000766922
ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]	-	2.706535126	3.13E-14	2.53E-12
ENSMMUG00000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	-	2.701636052	9.91E-08	1.98E-06
ENSMMUG00000040803	sarcalumenin [Source:NCBI gene;Acc:704655]	-	2.700153701	0.001266769	0.007657871
ENSMMUG00000024186	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	-2.69872807	0.001945591	0.010825159
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]	-	2.696762636	9.98E-22	3.38E-19
ENSMMUG00000055809		-	2.695275374	6.73E-05	0.000648739
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	-	-2.69290516	3.81E-10	1.28E-08
ENSMMUG00000000669	gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]	-	2.689323368	0.009059452	0.03707633
ENSMMUG00000061590		-	2.685671032	0.004771455	0.022405364
ENSMMUG00000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]	-	2.684397498	1.32E-07	2.58E-06
ENSMMUG00000017374	G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]	-	2.674631244	0.007952748	0.03357448
ENSMMUG00000051768		-	2.673198979	0.000764972	0.00509026
ENSMMUG00000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	-	2.672222818	3.02E-07	5.54E-06
ENSMMUG00000057494	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]	-	2.665589905	8.67E-05	0.00079888
ENSMMUG00000003261	BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]	-	2.664374487	6.13E-19	1.23E-16
ENSMMUG00000060744		-	2.660642867	6.33E-07	1.06E-05

ENSMMUG00000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]	-	2.658762593	5.21E-08	1.12E-06
ENSMMUG00000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	-	2.652931048	8.44E-07	1.36E-05
ENSMMUG00000018510	sodium voltage-gated channel alpha subunit 9 [Source:VGNC Symbol;Acc:VGNC:76990]	-	2.649986169	0.008959561	0.036834508
ENSMMUG00000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	-	2.641966371	4.41E-07	7.85E-06
ENSMMUG00000004711	transmembrane protein 74B [Source:VGNC Symbol;Acc:VGNC:78990]	-	2.639569047	0.001280641	0.007735608
ENSMMUG00000000777	dystonin [Source:VGNC Symbol;Acc:VGNC:81061]	-	2.629934807	0.008695832	0.035982409
ENSMMUG00000009059	Fas associated factor family member 2 [Source:VGNC Symbol;Acc:VGNC:72332]	-	2.623113653	0.01062852	0.041975485
ENSMMUG00000012124	ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]	-	2.617391279	0.001359575	0.008110285
ENSMMUG000000054246		-	-2.61436474	0.005482553	0.025134363
ENSMMUG000000053384		-	2.599777396	2.91E-20	7.51E-18
ENSMMUG000000054213	parathyroid hormone [Source:NCBI gene;Acc:700195]	-	2.595669138	0.004126709	0.019886406
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]	-	-2.58730152	5.74E-09	1.50E-07
ENSMMUG000000057302		-	2.584524656	0.006625431	0.029164279
ENSMMUG000000055759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.582279124	4.74E-05	0.000480476
ENSMMUG000000055071	Y RNA [Source:RFAM;Acc:RF00019]	-	-2.58017266	0.002847665	0.01471362
ENSMMUG00000013261	CDP-diacylglycerol synthase 2 [Source:VGNC Symbol;Acc:VGNC:70995]	-	2.578605656	0.001126719	0.006923282
ENSMMUG00000012481	importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]	-	2.578278242	2.81E-09	7.88E-08
ENSMMUG00000021280	leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]	-	2.567350647	9.04E-07	1.44E-05
ENSMMUG00000008113	pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]	-	2.560143868	0.005785467	0.026179601
ENSMMUG00000021282	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]	-	2.559662424	1.78E-05	0.000203197
ENSMMUG00000006639	NGG1 interacting factor 3 like 1 [Source:VGNC Symbol;Acc:VGNC:75166]	-	2.558820198	0.009232539	0.037615525
ENSMMUG00000019815	transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]	-	2.549555046	3.36E-05	0.00035638
ENSMMUG00000009958	ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]	-	2.547676021	0.000640425	0.004399314
ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	-	2.547546767	2.39E-05	0.00026389
ENSMMUG00000007313	histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]	-	2.544387956	0.002456794	0.013110569
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	-	2.540601072	2.09E-07	3.92E-06
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]	-	2.532234304	1.12E-08	2.78E-07
ENSMMUG00000019831	neurobeachin [Source:NCBI gene;Acc:714386]	-	2.522627101	0.000184527	0.001528271
ENSMMUG00000012129	tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]	-	-2.52207563	2.98E-11	1.30E-09
ENSMMUG00000040361	ATPase H+ transporting V1 subunit C1 [Source:NCBI gene;Acc:693840]	-	2.515576128	0.012350054	0.046877411

ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	-	2.510670583	4.76E-17	6.44E-15
ENSMMUG00000052287		-	2.508698858	0.01329492	0.049869761
ENSMMUG00000016723	zinc finger protein 287 [Source:NCBI gene;Acc:695524]	-	2.503714287	0.004176646	0.020073474
ENSMMUG00000018346	coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]	-	2.483899379	0.002242691	0.012184722
ENSMMUG00000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]	-	2.479257439	1.06E-07	2.10E-06
ENSMMUG00000006187	angiotensin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]	-	2.477729617	2.76E-07	5.09E-06
ENSMMUG00000059575		-	2.472018712	1.10E-10	4.25E-09
ENSMMUG00000007325	Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]	-	2.469129466	0.00010713	0.000967118
ENSMMUG00000006731	CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]	-	2.462502443	6.77E-07	1.12E-05
ENSMMUG00000015143	F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]	-	2.460349206	3.58E-05	0.000375948
ENSMMUG00000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]	-	2.457253669	3.02E-08	6.73E-07
ENSMMUG00000040817	interferon regulatory factor 9 [Source:VGNC Symbol;Acc:VGNC:84361]	-	2.455267946	0.002010912	0.01113712
ENSMMUG00000060487	atypical chemokine receptor 3 [Source:NCBI gene;Acc:694428]	-	2.453114495	0.00058466	0.00408621
ENSMMUG00000012122	protein phosphatase 1 regulatory inhibitor subunit 11 [Source:VGNC Symbol;Acc:VGNC:82209]	-	2.440478636	0.002869545	0.014795708
ENSMMUG00000013937	RAB41, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81544]	-	-2.43454659	0.000812156	0.005332173
ENSMMUG00000008419	G protein nucleolar 2 [Source:VGNC Symbol;Acc:VGNC:73037]	-	2.434371945	0.000561022	0.003951597
ENSMMUG00000062793		-	2.432410194	2.99E-15	3.05E-13
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]	-	2.429079799	1.95E-05	0.000219931
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	-	2.416266677	2.68E-08	6.11E-07
ENSMMUG00000005949	olfactory receptor 2B11 [Source:NCBI gene;Acc:709256]	-	2.407756727	0.004864958	0.022765482
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	-	2.403354004	4.68E-05	0.000475105
ENSMMUG00000037625		-	2.400564878	0.002770955	0.014410828
ENSMMUG00000062974		-	2.398844059	6.16E-08	1.29E-06
ENSMMUG00000017246	lipoygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	-	2.395529302	1.96E-07	3.68E-06
ENSMMUG00000023235	SET domain bifurcated histone lysine methyltransferase 1 [Source:NCBI gene;Acc:716141]	-	2.395496925	0.012154488	0.046427914
ENSMMUG00000060278	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.386424528	0.001345258	0.008038233
ENSMMUG00000059677	melanocortin 2 receptor accessory protein [Source:NCBI gene;Acc:701330]	-	2.375831146	0.008424484	0.03506149
ENSMMUG00000047324	casein alpha s1 [Source:HGNC Symbol;Acc:HGNC:2445]	-	2.373721883	0.009778339	0.039384627
ENSMMUG00000056045		-	-2.36562446	1.59E-05	0.00018381

ENSMMUG00000050979	PILR alpha associated neural protein [Source:NCBI gene;Acc:713548]	-	2.364759587	0.011687503	0.045009144
ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	-	2.358159913	7.33E-08	1.50E-06
ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]	-	2.353474668	0.005392767	0.024817265
ENSMMUG00000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	-	2.346909528	1.55E-08	3.76E-07
ENSMMUG00000019672	autophagy related 13 [Source:VGNC Symbol;Acc:VGNC:70148]	-	2.333898918	0.008695336	0.035982409
ENSMMUG00000058580	tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]	-	-2.33382126	0.000257402	0.002020602
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	-	2.331304407	0.000896811	0.005758831
ENSMMUG00000015550	PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]	-	-2.33064876	0.002052629	0.011327627
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	-	2.327265273	7.19E-09	1.84E-07
ENSMMUG00000016004	acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]	-	2.325382337	0.000205799	0.001673737
ENSMMUG00000052791		-	-2.31545359	2.31E-06	3.32E-05
ENSMMUG00000011183	olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]	-	2.310390346	0.004180812	0.020084586
ENSMMUG00000057501		-	2.309270428	3.22E-06	4.47E-05
ENSMMUG00000051429		-	-2.3083737	0.009095736	0.03719672
ENSMMUG00000061268	PLAG1 zinc finger [Source:NCBI gene;Acc:696149]	-	2.303699932	5.57E-05	0.00055106
ENSMMUG00000063463		-	2.300776706	0.000168029	0.00140887
ENSMMUG00000011810	FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]	-	2.299989585	0.001096687	0.006777187
ENSMMUG00000055271		-	2.297936542	0.000264311	0.002058434
ENSMMUG00000055284		-	2.296797977	0.01172654	0.045111368
ENSMMUG00000055585		-	2.293740205	0.000583732	0.004082354
ENSMMUG00000013055	malic enzyme 3 [Source:VGNC Symbol;Acc:VGNC:74695]	-	2.290319755	0.00059334	0.004136201
ENSMMUG00000005204	VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]	-	-2.28950586	0.000136617	0.001191313
ENSMMUG00000049788		-	2.283582505	0.00269833	0.014151596
ENSMMUG00000029197	YY1 transcription factor [Source:NCBI gene;Acc:717370]	-	2.283408827	6.12E-07	1.03E-05
ENSMMUG00000064131		-	2.279247116	6.42E-06	8.27E-05
ENSMMUG00000022726	dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]	-	-2.2744497	0.010912015	0.042721309
ENSMMUG00000023679	tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]	-	2.273279279	4.46E-07	7.91E-06
ENSMMUG00000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	-	2.271798335	4.34E-10	1.45E-08
ENSMMUG00000060527		-	2.271090359	0.000547862	0.003876544
ENSMMUG00000017396	3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]	-	2.270125736	0.00032588	0.002466985
ENSMMUG00000017378	steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]	-	2.266534298	0.002746932	0.014320269

ENSMMUG00000029475	zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]	-	2.265719562	0.00094812	0.006013457
ENSMMUG00000015002	chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]	-	2.264835965	0.000772063	0.00513114
ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	-	2.255467274	4.15E-07	7.46E-06
ENSMMUG00000046464	coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]	-	2.254161252	9.50E-05	0.000868097
ENSMMUG00000010050	small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]	-	2.246868843	1.08E-05	0.000132936
ENSMMUG00000064066		-	2.239223405	0.007997638	0.033674926
ENSMMUG00000007620	transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]	-	2.235725281	4.36E-05	0.000445362
ENSMMUG00000058933		-	2.234464907	0.010995848	0.042909948
ENSMMUG00000051115		-	2.228906068	0.001441725	0.008506651
ENSMMUG00000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-2.2286912	7.77E-07	1.27E-05
ENSMMUG00000003631	cytoskeleton associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71368]	-	2.227799815	0.003113003	0.015810204
ENSMMUG00000056363		-	2.227614261	0.007919957	0.033462125
ENSMMUG00000063576	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.226683019	0.005999165	0.026921689
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	-	2.226391766	2.40E-05	0.000265522
ENSMMUG00000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	-	2.225542722	3.75E-10	1.27E-08
ENSMMUG00000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	-	2.215526759	0.005043546	0.023479471
ENSMMUG00000063555		-	-2.21111161	0.011751868	0.045192752
ENSMMUG00000060892		-	2.209599547	6.54E-12	3.30E-10
ENSMMUG00000050544		-	2.208513679	0.00354273	0.017572524
ENSMMUG00000053721		-	2.199329902	0.001334247	0.007998834
ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]	-	2.193865198	1.41E-08	3.44E-07
ENSMMUG00000004178	NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]	-	2.190466787	0.000227354	0.001824393
ENSMMUG00000053660	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.189281136	0.00090896	0.005809302
ENSMMUG00000001940	NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]	-	2.185445305	1.83E-06	2.71E-05
ENSMMUG00000059938		-	2.185184572	0.003634424	0.01791252
ENSMMUG00000057475		-	2.184462375	0.002055935	0.011340092
ENSMMUG00000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	-	2.183853069	0.006518568	0.028728905
ENSMMUG00000003394	cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]	-	2.182344406	2.79E-13	1.83E-11
ENSMMUG00000060167		-	2.181844447	3.35E-06	4.63E-05

ENSMMUG00000014955	nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]	-2.17267699	0.00380965	0.018665734
ENSMMUG00000023012	vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]	2.167820583	0.001984943	0.011004547
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	2.167768377	2.33E-08	5.43E-07
ENSMMUG00000058240		2.153156514	0.000657488	0.004493731
ENSMMUG00000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	2.151409924	9.44E-06	0.000117988
ENSMMUG00000049749		2.148398391	1.83E-08	4.39E-07
ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]	2.148391284	3.48E-06	4.79E-05
ENSMMUG00000053150	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.142613924	0.003125474	0.015843826
ENSMMUG00000004791	pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]	2.140785873	0.000106875	0.000965615
ENSMMUG00000008916	transferrin [Source:VGNC Symbol;Acc:VGNC:82716]	2.140133416	3.25E-09	8.96E-08
ENSMMUG00000062866		2.139341101	0.000525202	0.003726973
ENSMMUG00000018945	chloride nucleotide-sensitive channel 1A [Source:VGNC Symbol;Acc:VGNC:71261]	-2.13736032	0.00579006	0.026182304
ENSMMUG00000009669	cutaneous T cell lymphoma-associated antigen 1 [Source:NCBI gene;Acc:106994443]	2.135130661	0.005068038	0.023542907
ENSMMUG00000051482		2.133960627	7.98E-07	1.30E-05
ENSMMUG00000003120	HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]	2.133405853	0.00026158	0.002043306
ENSMMUG00000009695	BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]	2.130089117	0.000568078	0.003993502
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	2.129660257	6.35E-05	0.000616581
ENSMMUG00000005801	glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]	2.126233197	5.13E-07	8.94E-06
ENSMMUG00000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]	2.123813716	8.67E-10	2.75E-08
ENSMMUG00000061815		2.122667306	1.71E-09	5.11E-08
ENSMMUG00000062198	transmembrane protein 204 [Source:NCBI gene;Acc:701926]	2.117047486	0.009926031	0.039840197
ENSMMUG00000007766	suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]	2.110181027	5.41E-07	9.34E-06
ENSMMUG00000060841		2.109950608	0.008654849	0.03588763
ENSMMUG00000062110	TPD52 like 1 [Source:NCBI gene;Acc:716568]	2.108460867	0.003852291	0.01884908
ENSMMUG00000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	2.107911309	2.41E-07	4.48E-06
ENSMMUG00000051112	p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]	2.107150585	2.01E-05	0.000226098
ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	2.104396133	8.84E-07	1.42E-05
ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	2.103884988	9.75E-10	3.07E-08
ENSMMUG00000061892		2.102309714	3.93E-08	8.58E-07

ENSMMUG00000016610	CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]	-	2.099800346	0.000315467	0.002399897
ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]	-	2.099698463	2.69E-08	6.11E-07
ENSMMUG00000050177		-	-2.09741513	0.000358257	0.00267185
ENSMMUG00000051261		-	2.088191979	0.000662798	0.004524317
ENSMMUG00000008942	carosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]	-	2.079637426	0.007528569	0.032223229
ENSMMUG00000001121	zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]	-	2.076735512	0.000115251	0.001028434
ENSMMUG00000047994	CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]	-	2.075955368	0.00061602	0.00426412
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	-	2.074901802	2.50E-10	8.89E-09
ENSMMUG00000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]	-	2.073848668	4.02E-09	1.09E-07
ENSMMUG00000006682	chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]	-	2.073841427	0.003720331	0.018310925
ENSMMUG00000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	-	2.073471345	1.37E-06	2.10E-05
ENSMMUG00000052435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.072171182	0.000608207	0.004220823
ENSMMUG00000021377	SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]	-	2.071404001	3.70E-06	5.06E-05
ENSMMUG00000038935	zinc finger CCHC-type containing 3 [Source:NCBI gene;Acc:714477]	-	2.069160839	0.000633169	0.004355141
ENSMMUG00000023480	IKAROS family zinc finger 5 [Source:VGNC Symbol;Acc:VGNC:73590]	-	2.066883761	0.001110282	0.006845582
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	-	2.066322533	3.31E-08	7.34E-07
ENSMMUG00000007968	hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]	-	2.064538449	1.63E-05	0.000188509
ENSMMUG00000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]	-	2.062875025	0.009640069	0.038952208
ENSMMUG00000006775	proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]	-	2.061234019	1.58E-05	0.000182849
ENSMMUG00000018746	FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]	-	2.060201644	2.86E-05	0.000308805
ENSMMUG00000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]	-	2.057469433	4.96E-07	8.72E-06
ENSMMUG00000000667	zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]	-	2.057292513	0.001337697	0.008006227
ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	-	2.055884894	5.46E-05	0.000542536
ENSMMUG00000007215	X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]	-	2.050094744	1.47E-05	0.00017267
ENSMMUG00000001386	neurotrophic receptor tyrosine kinase 3 [Source:VGNC Symbol;Acc:VGNC:75542]	-	2.049179014	0.002360161	0.012720211
ENSMMUG00000017437	LysM domain containing 2 [Source:NCBI gene;Acc:694916]	-	2.049006911	0.009221284	0.037615525
ENSMMUG00000047542	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	2.047093724	0.004614885	0.021802466
ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	-	2.043161228	5.39E-07	9.33E-06
ENSMMUG00000043411	zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]	-	2.040727759	0.000678999	0.00462616

ENSMMUG00000054689		-	2.040643778	0.000898898	0.005768818
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	-	2.040069459	4.71E-06	6.27E-05
ENSMMUG00000000620	dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]	-	2.038959766	0.008265272	0.034557196
ENSMMUG00000064980		-	2.038768882	0.005289315	0.024434607
ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]	-	2.034433975	0.000724953	0.004883965
ENSMMUG00000055477		-	2.028309817	0.000131544	0.001153861
ENSMMUG00000023006	corepressor interacting with RBPJ, 1 [Source:VGNC Symbol;Acc:VGNC:71331]	-	2.022201425	0.001954694	0.010864646
ENSMMUG00000049997		-	2.015109816	0.000141256	0.001222224
ENSMMUG00000023076	diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]	-	2.011502494	0.000147094	0.001264659
ENSMMUG00000037908		-	2.004485288	0.00010082	0.000915491
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	-	1.998413976	9.83E-06	0.000122403
ENSMMUG00000051523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.997250738	0.001144757	0.007016918
ENSMMUG00000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]	-	1.996245915	0.00140941	0.008352376
ENSMMUG00000051641		-	1.992961604	7.12E-05	0.000677402
ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]	-	-1.99277703	1.65E-05	0.000190951
ENSMMUG00000053344	splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]	-	1.991945873	0.010861596	0.042585475
ENSMMUG00000062021		-	1.991239177	0.006412214	0.028372545
ENSMMUG00000017114	pleckstrin homology domain containing A6 [Source:VGNC Symbol;Acc:VGNC:76040]	-	1.990811444	0.004339015	0.020734253
ENSMMUG00000003260		-	1.990515507	6.53E-08	1.36E-06
ENSMMUG00000007277	GTP binding protein 1 [Source:VGNC Symbol;Acc:VGNC:73320]	-	1.987091607	0.006603037	0.02907752
ENSMMUG00000023583	calcium release activated channel regulator 2A [Source:NCBI gene;Acc:709929]	-	-1.98558955	0.002895314	0.014895197
ENSMMUG00000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	-	1.979560021	9.84E-06	0.000122407
ENSMMUG00000061117		-	1.979349811	7.36E-05	0.000698116
ENSMMUG00000022791	heat shock transcription factor 2 binding protein [Source:VGNC Symbol;Acc:VGNC:73532]	-	1.977034402	0.004008738	0.019421581
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	-	1.976573197	6.72E-05	0.000648403
ENSMMUG00000051552		-	-1.97589908	0.001878956	0.010539308
ENSMMUG00000014531	transmembrane protein 109 [Source:VGNC Symbol;Acc:VGNC:79740]	-	1.971638966	3.79E-05	0.000395133
ENSMMUG00000007765	Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]	-	1.971215523	2.42E-11	1.08E-09
ENSMMUG00000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]	-	1.964369158	7.12E-08	1.46E-06

ENSMMUG0000008119	telomere maintenance 2 [Source:NCBI gene;Acc:701679]	-	1.964091771	5.65E-06	7.37E-05
ENSMMUG00000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	-	1.963886489	3.77E-10	1.27E-08
ENSMMUG00000022648	beta-1,3-galactosyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70205]	-	1.963519572	0.001885161	0.010564897
ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	-	1.960833541	0.006052082	0.027090405
ENSMMUG00000021373	rhomboid domain containing 3 [Source:NCBI gene;Acc:714479]	-	1.958396442	6.88E-05	0.000660569
ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	-	-1.95328361	1.11E-05	0.000135214
ENSMMUG00000042798		-	1.953269063	2.10E-06	3.04E-05
ENSMMUG00000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]	-	1.950127324	7.70E-08	1.57E-06
ENSMMUG00000062861		-	1.944537302	6.87E-05	0.00065987
ENSMMUG00000059855	Smad nuclear interacting protein 1 [Source:NCBI gene;Acc:713733]	-	1.944533735	0.000295128	0.002261049
ENSMMUG00000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]	-	-1.94440746	0.003175829	0.016084035
ENSMMUG00000017355	remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]	-	-1.94037589	7.64E-05	0.000720595
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	-	1.938011721	4.97E-12	2.55E-10
ENSMMUG00000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	-	1.933822186	9.06E-11	3.54E-09
ENSMMUG00000050864		-	1.932639231	4.19E-05	0.000431301
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]	-	1.924300854	5.36E-17	7.17E-15
ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]	-	1.924007954	0.000124542	0.001100457
ENSMMUG00000022636	GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]	-	1.923709266	0.000247278	0.001959383
ENSMMUG00000022202	basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]	-	1.922871942	7.83E-06	9.91E-05
ENSMMUG00000026836	Y RNA [Source:RFAM;Acc:RF00019]	-	1.922548915	0.006227549	0.027694185
ENSMMUG00000051107		-	1.919832228	0.002405009	0.01289137
ENSMMUG00000054916	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.916672895	0.005633747	0.025653795
ENSMMUG0000008009	family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]	-	1.914788819	0.000834987	0.005455615
ENSMMUG00000013501	CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]	-	1.910749147	0.008457343	0.035170211
ENSMMUG00000058539		-	-1.90419406	0.004008099	0.019421581
ENSMMUG00000064804		-	1.893391325	0.000238008	0.001902832
ENSMMUG00000049437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.892828308	4.79E-05	0.000484858
ENSMMUG00000059208	aurora kinase A interacting protein 1 [Source:NCBI gene;Acc:706329]	-	1.892797322	0.005908654	0.026603677
ENSMMUG00000004617	glutathione peroxidase 6 [Source:VGNC Symbol;Acc:VGNC:73154]	-	1.889951541	0.010941032	0.042773076
ENSMMUG00000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	-	1.887983983	3.30E-07	6.00E-06

ENSMMUG00000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	-	1.886506911	0.000204448	0.001665255
ENSMMUG00000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	-	1.884585691	0.000334463	0.002519637
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	-	-1.88425417	2.35E-10	8.42E-09
ENSMMUG000000054719		-	1.883895822	2.63E-06	3.72E-05
ENSMMUG00000014810	short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]	-	1.878946634	8.11E-07	1.32E-05
ENSMMUG00000020910	nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]	-	1.878868683	0.000522353	0.003713027
ENSMMUG00000044473		-	1.877318434	1.28E-05	0.000153973
ENSMMUG00000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	-	1.875076815	1.56E-12	8.76E-11
ENSMMUG00000001551	SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]	-	1.873056718	2.75E-05	0.000298831
ENSMMUG00000010695	adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]	-	1.865409786	0.002848192	0.01471362
ENSMMUG00000010127	chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]	-	1.865074992	0.001207826	0.007342523
ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	-	1.857330292	2.67E-05	0.000292514
ENSMMUG00000010114	Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]	-	-1.85657369	3.58E-05	0.000375948
ENSMMUG00000065031		-	1.856321923	1.25E-11	5.99E-10
ENSMMUG00000007411	integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]	-	1.840401595	1.85E-09	5.47E-08
ENSMMUG00000012396	zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]	-	1.838322638	5.48E-05	0.00054325
ENSMMUG00000013848	fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]	-	1.837306787	0.000743004	0.004968493
ENSMMUG00000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	-	1.836924569	7.70E-15	7.01E-13
ENSMMUG00000055678	translocase of outer mitochondrial membrane 20 like [Source:NCBI gene;Acc:700628]	-	1.834772856	0.011155941	0.043393154
ENSMMUG00000020175	mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]	-	1.833331437	0.002135028	0.011693004
ENSMMUG00000019977	myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]	-	1.832940945	3.39E-05	0.000359504
ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]	-	1.828342212	0.000119414	0.001062948
ENSMMUG00000048805		-	1.826821099	8.09E-05	0.000754557
ENSMMUG00000062615		-	-1.8241498	0.001790405	0.010144068
ENSMMUG00000063659		-	1.823826067	0.00869217	0.035982409
ENSMMUG00000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	-	1.823524844	0.000280649	0.002168527
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]	-	1.822760149	3.34E-08	7.40E-07
ENSMMUG00000019045	estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]	-	1.822297402	0.001548212	0.009031654
ENSMMUG00000011214	solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]	-	-1.82110288	0.000906508	0.00579705
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	-	1.819728195	1.33E-06	2.04E-05

ENSMMUG0000002802	agmatinase [Source:NCBI gene;Acc:713190]	-	1.819456867	0.011198303	0.043465146
ENSMMUG00000064458		-	1.817928857	0.001645621	0.009502672
ENSMMUG00000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	-	1.815400739	2.57E-08	5.90E-07
ENSMMUG00000012110	smoothened, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	-	1.813672271	0.000342393	0.002572495
ENSMMUG00000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	-	1.813238972	0.000373612	0.002766467
ENSMMUG00000060408		-	1.809775433	0.003202603	0.01619692
ENSMMUG00000018679	glyceraldehyde-3-phosphate dehydrogenase [Source:NCBI gene;Acc:574353]	-	1.799717816	0.005126277	0.023779053
ENSMMUG00000021691	spastin [Source:VGNC Symbol;Acc:VGNC:77857]	-	1.776047592	0.002866685	0.014788001
ENSMMUG00000061068		-	1.775057913	0.001193291	0.007258236
ENSMMUG00000008738	COMM domain containing 10 [Source:VGNC Symbol;Acc:VGNC:71374]	-	1.771519119	0.009380602	0.038074209
ENSMMUG00000049295	GTPase, IMAP family member 5 [Source:NCBI gene;Acc:713835]	-	1.770217002	6.06E-05	0.000595376
ENSMMUG00000016052	seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]	-	1.767370447	0.000213266	0.001722826
ENSMMUG00000016911	DEAD-box helicase 41 [Source:VGNC Symbol;Acc:VGNC:71660]	-	1.763951529	0.000134111	0.001172581
ENSMMUG00000040771		-	1.761883782	0.000945735	0.006001846
ENSMMUG00000016893	solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]	-	1.760419353	0.000135305	0.001182065
ENSMMUG00000065099		-	1.760333848	0.000163969	0.001381238
ENSMMUG00000000690	catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]	-	1.759979884	0.00284176	0.014694407
ENSMMUG00000046218	X antigen family member 5 [Source:NCBI gene;Acc:114669729]	-	1.759184511	0.000407957	0.002988098
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	-	-1.75508828	4.10E-06	5.53E-05
ENSMMUG00000002894	dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]	-	1.751859439	1.06E-05	0.000130425
ENSMMUG00000002657	olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]	-	1.750436129	0.005922234	0.026642674
ENSMMUG00000020435	amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]	-	1.749935581	5.00E-06	6.59E-05
ENSMMUG00000000684	acyl-CoA dehydrogenase short/branched chain [Source:VGNC Symbol;Acc:VGNC:81343]	-	1.748268788	0.003226833	0.016289041
ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]	-	1.742399894	0.000350006	0.002620327
ENSMMUG00000021308	chromosome 9 C10orf71 homolog [Source:NCBI gene;Acc:710332]	-	1.741267622	0.001313657	0.007888497
ENSMMUG00000019145	TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]	-	1.740626711	8.10E-05	0.000754743
ENSMMUG00000022680	alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]	-	1.739439078	8.38E-05	0.000776544
ENSMMUG00000060932	zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]	-	1.739376533	0.002758056	0.01436109
ENSMMUG00000012224	family with sequence similarity 126 member B [Source:VGNC Symbol;Acc:VGNC:72393]	-	1.739077576	0.008978024	0.036895861

ENSMMUG00000022927	RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]	-	1.739046926	0.00014172	0.001225263
ENSMMUG00000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	-	1.735897175	1.03E-06	1.63E-05
ENSMMUG00000063598	leucine rich repeat containing 26 [Source:NCBI gene;Acc:706616]	-	1.734741787	0.001173043	0.007155167
ENSMMUG00000056737		-	1.734666525	0.010901515	0.042695629
ENSMMUG00000060600		-	-1.73289409	0.005645988	0.025677156
ENSMMUG00000018081	ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]	-	1.731262238	0.000282919	0.002179844
ENSMMUG00000001942	mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]	-	1.731046932	6.35E-05	0.000616581
ENSMMUG00000020540	NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]	-	1.728733076	0.00102719	0.00642468
ENSMMUG00000022631	ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]	-	1.726449544	0.008406691	0.035026802
ENSMMUG00000001640	SIX homeobox 4 [Source:NCBI gene;Acc:703798]	-	1.726012012	0.006797375	0.029800068
ENSMMUG00000021374	EWS RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72446]	-	1.720953684	0.000126741	0.001117155
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	-	1.718969762	8.89E-07	1.42E-05
ENSMMUG00000018058	ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]	-	1.718843678	0.000365678	0.002722601
ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	-	1.713458673	1.24E-05	0.000149229
ENSMMUG00000018493	FH2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72598]	-	1.712967186	0.008950759	0.036834508
ENSMMUG00000018031	solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]	-	1.712062502	0.006189404	0.027569823
ENSMMUG00000005067	elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]	-	1.711171773	0.005303132	0.02448799
ENSMMUG00000021186	anillin actin binding protein [Source:VGNC Symbol;Acc:VGNC:69610]	-	1.711014236	1.00E-05	0.000124271
ENSMMUG00000010323	zinc finger CCCH-type containing 12A [Source:VGNC Symbol;Acc:VGNC:79595]	-	1.709515383	0.00219377	0.011960298
ENSMMUG00000005923	failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]	-	1.705359721	0.002318994	0.012542019
ENSMMUG00000023443	SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]	-	1.704472967	0.000151558	0.001293281
ENSMMUG00000023558	exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]	-	1.700350098	0.004830013	0.022641079
ENSMMUG00000032427	neuroligin 3 [Source:NCBI gene;Acc:574216]	-	1.697542878	5.47E-05	0.00054325
ENSMMUG00000053036		-	1.696012182	6.80E-05	0.00065462
ENSMMUG00000008919	RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]	-	-1.69255112	0.000447723	0.003237776
ENSMMUG00000013035	teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]	-	1.692548843	0.004150909	0.019976365
ENSMMUG00000013045	coiled-coil domain containing 81 [Source:VGNC Symbol;Acc:VGNC:70868]	-	1.690580653	0.010937331	0.042773076
ENSMMUG00000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]	-	1.690460989	0.000242157	0.00192747
ENSMMUG00000000117	HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]	-	1.687369431	0.000951332	0.00602831

ENSMMUG00000045105	phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]	-	1.685197099	0.006844657	0.029970964
ENSMMUG00000012463	DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]	-	1.684685714	2.33E-10	8.37E-09
ENSMMUG00000021775	beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]	-	-1.68156889	0.002171905	0.011858994
ENSMMUG00000057697		-	1.679304816	0.002672987	0.014062576
ENSMMUG00000061295	PDZ domain containing 11 [Source:NCBI gene;Acc:695458]	-	1.677620257	0.001293063	0.007799417
ENSMMUG00000009493	family with sequence similarity 120A [Source:NCBI gene;Acc:717459]	-	-1.67605633	0.004559709	0.021588865
ENSMMUG00000032244	DnaJ heat shock protein family (Hsp40) member C16 [Source:NCBI gene;Acc:700894]	-	-1.67573742	0.003927204	0.019094884
ENSMMUG00000002821	origin recognition complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:75715]	-	-1.67216375	0.000932754	0.005936856
ENSMMUG00000007775	survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]	-	1.671762435	0.00345589	0.017229946
ENSMMUG00000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]	-	1.667203378	2.01E-05	0.000225887
ENSMMUG00000059773	methyltransferase like 11B [Source:NCBI gene;Acc:705503]	-	1.663885161	0.002863669	0.014779478
ENSMMUG00000014080	kelch like family member 8 [Source:VGNC Symbol;Acc:VGNC:74076]	-	-1.66252331	0.007117014	0.030864136
ENSMMUG00000021388	circadian associated repressor of transcription [Source:VGNC Symbol;Acc:VGNC:71345]	-	1.662019233	0.000879279	0.005669776
ENSMMUG00000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]	-	1.661425089	7.53E-05	0.000710635
ENSMMUG00000049859		-	1.657171077	3.64E-05	0.000381405
ENSMMUG00000013718	translocation associated membrane protein 2 [Source:VGNC Symbol;Acc:VGNC:83515]	-	1.649669575	1.27E-09	3.92E-08
ENSMMUG00000022118	regulatory factor X4 [Source:VGNC Symbol;Acc:VGNC:76909]	-	1.649134668	0.006318548	0.028052799
ENSMMUG00000051020	zinc finger protein 467 [Source:NCBI gene;Acc:712106]	-	1.648587973	0.000358368	0.00267185
ENSMMUG00000023083	A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]	-	1.648230123	0.002104725	0.011569822
ENSMMUG00000065344	homeobox D1 [Source:NCBI gene;Acc:701064]	-	1.643158929	0.000841993	0.005494768
ENSMMUG00000015371	microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]	-	1.641011417	6.14E-05	0.000600233
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]	-	1.640791958	0.00887316	0.036590387
ENSMMUG00000049563		-	-1.64011908	0.001312442	0.007888497
ENSMMUG00000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	-	1.637329514	5.82E-11	2.35E-09
ENSMMUG00000062538	adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]	-	1.636262469	0.002915154	0.014980962
ENSMMUG00000051286		-	1.636030522	3.58E-06	4.91E-05
ENSMMUG00000022632	ubiquitin-fold modifier conjugating enzyme 1 [Source:VGNC Symbol;Acc:VGNC:79643]	-	1.635562626	0.000239781	0.00191418
ENSMMUG00000055889		-	1.635443996	0.009406518	0.038150809
ENSMMUG00000020122	RAN binding protein 9 [Source:VGNC Symbol;Acc:VGNC:76475]	-	-1.62579069	1.05E-05	0.000129646
ENSMMUG00000011573	cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]	-	1.625502071	0.006175567	0.027519507
ENSMMUG00000006553	dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]	-	1.623324473	0.003362901	0.016858078

ENSMMUG00000020348	BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]	-	1.620686636	0.009590075	0.03879361
ENSMMUG00000054176	methyltransferase like 8 [Source:NCBI gene;Acc:695361]	-	1.618236844	0.002505829	0.013313216
ENSMMUG00000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]	-	1.617928916	6.42E-05	0.000621758
ENSMMUG00000007561	zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]	-	1.617529565	0.000254697	0.002003724
ENSMMUG00000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	-	1.615709551	6.08E-05	0.000595376
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	-	1.614915025	0.000108179	0.000974152
ENSMMUG00000058765		-	1.614361139	0.012117128	0.04631787
ENSMMUG00000015640	AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]	-	1.611907173	0.003595429	0.017762833
ENSMMUG00000005170	unc-45 myosin chaperone B [Source:VGNC Symbol;Acc:VGNC:78954]	-	-1.61183355	0.00218449	0.011915698
ENSMMUG00000006950	cornichon family AMPA receptor auxiliary protein 2 [Source:VGNC Symbol;Acc:VGNC:71366]	-	1.610288289	0.011383662	0.043979746
ENSMMUG00000009520	gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]	-	1.609569757	0.0103292	0.041108091
ENSMMUG00000058142		-	1.606165318	0.00016462	0.001385647
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	-	1.604946076	7.45E-06	9.49E-05
ENSMMUG00000011702	tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]	-	1.604723038	0.001649205	0.009518292
ENSMMUG00000009087	HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]	-	1.604639663	5.17E-05	0.00051784
ENSMMUG00000049699	thioredoxin like 4B [Source:NCBI gene;Acc:706840]	-	1.604413736	0.004968625	0.023160548
ENSMMUG00000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	-	1.603768509	0.000376601	0.002784223
ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]	-	1.603337183	4.72E-06	6.27E-05
ENSMMUG00000020036	Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]	-	1.600444602	0.000538751	0.003814566
ENSMMUG00000002517	protein tyrosine phosphatase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76567]	-	-1.59708327	0.004147022	0.019966526
ENSMMUG00000059525		-	1.595222722	0.007717695	0.032735236
ENSMMUG00000004709	proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]	-	1.594924871	0.000161698	0.001366169
ENSMMUG00000062664		-	1.593371281	0.009981428	0.040003258
ENSMMUG00000054532		-	-1.59325152	0.001558441	0.009066912
ENSMMUG00000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]	-	1.592604633	0.001146182	0.007018988
ENSMMUG00000000962	H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]	-	1.591613694	0.000780878	0.005173328
ENSMMUG00000052676		-	1.590072168	1.07E-06	1.68E-05
ENSMMUG00000023137	zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]	-	1.589783596	0.000261614	0.002043306
ENSMMUG00000008486	endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]	-	1.589320852	5.49E-05	0.000543655

ENSMMUG00000053778		-	1.587948661	0.004596811	0.02172655
ENSMMUG00000008578	hyaluronan and proteoglycan link protein 4 [Source:VGNC Symbol;Acc:VGNC:73261]	-	1.587393877	0.004530113	0.021486302
ENSMMUG00000050975		-	1.585120832	0.001978821	0.010976227
ENSMMUG00000007256	splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]	-	1.582208007	6.94E-05	0.000663864
ENSMMUG00000032281	zinc finger and BTB domain containing 48 [Source:VGNC Symbol;Acc:VGNC:79959]	-	1.581672514	0.000278466	0.002153195
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]	-	1.579165914	0.009363614	0.038019503
ENSMMUG00000044759		-	1.573232576	2.68E-05	0.000292956
ENSMMUG00000052574		-	1.572941376	1.96E-08	4.63E-07
ENSMMUG00000049575	T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]	-	1.570274928	0.000215314	0.001735489
ENSMMUG00000004849	casein beta [Source:VGNC Symbol;Acc:VGNC:71523]	-	1.569313586	1.31E-05	0.000156562
ENSMMUG00000016354	IQ motif containing N [Source:VGNC Symbol;Acc:VGNC:73683]	-	1.568660971	2.41E-07	4.48E-06
ENSMMUG00000022548	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:VGNC Symbol;Acc:VGNC:75992]	-	1.567088112	0.000876752	0.005662524
ENSMMUG00000009319	transmembrane protein 161B [Source:VGNC Symbol;Acc:VGNC:84508]	-	1.565588715	0.008699515	0.035983903
ENSMMUG00000017486	minichromosome maintenance complex component 6 [Source:VGNC Symbol;Acc:VGNC:74685]	-	1.565062482	0.000632391	0.004355141
ENSMMUG00000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	-	1.562649074	0.001710508	0.009778329
ENSMMUG00000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	-	1.559261729	8.17E-07	1.32E-05
ENSMMUG00000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	-	1.558814551	1.81E-07	3.45E-06
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	-	1.558165229	0.00153933	0.008994369
ENSMMUG00000052442		-	-1.55389549	0.000333665	0.00251587
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	-	-1.55345761	1.57E-06	2.37E-05
ENSMMUG00000009303	coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]	-	1.552626072	0.003538826	0.0175612
ENSMMUG00000053008		-	1.549870878	0.010757131	0.042344477
ENSMMUG00000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]	-	1.549809439	0.000500143	0.003576268
ENSMMUG00000059327	NUS1 dehydrololichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]	-	1.548981704	2.70E-05	0.000294686
ENSMMUG00000012467	family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]	-	1.548415116	0.004347082	0.020763643
ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	-	-1.54741373	4.93E-06	6.52E-05
ENSMMUG00000020418	diacylglycerol kinase beta [Source:VGNC Symbol;Acc:VGNC:71782]	-	1.544332925	0.006069441	0.027147089
ENSMMUG00000016543	CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]	-	1.542298335	0.005748151	0.026065184
ENSMMUG00000000797	exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]	-	1.541673734	0.00059774	0.004150845

ENSMMUG00000012101	synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]	-	1.541135007	0.002438826	0.013031027
ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]	-	1.539391643	0.000736744	0.004938826
ENSMMUG000000062642		-	1.538657563	0.00030315	0.002315954
ENSMMUG00000007424	nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]	-	1.535248705	6.00E-08	1.26E-06
ENSMMUG00000023125	XPC complex subunit, DNA damage recognition and repair factor [Source:VGNC Symbol;Acc:VGNC:78809]	-	1.534386996	0.004997412	0.023284714
ENSMMUG00000047162	fibroblast growth factor 10 [Source:VGNC Symbol;Acc:VGNC:84378]	-	1.533390242	0.001335759	0.007999393
ENSMMUG000000061433		-	1.530733372	0.000741452	0.004961182
ENSMMUG00000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-	1.529187593	7.42E-07	1.22E-05
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	-	1.528873978	1.21E-05	0.000146044
ENSMMUG00000000663	guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]	-	1.526368424	0.000445166	0.003227589
ENSMMUG00000038371	JunD proto-oncogene, AP-1 transcription factor subunit [Source:NCBI gene;Acc:720182]	-	1.525213174	0.00145265	0.008558636
ENSMMUG000000055392		-	1.524413984	0.002705446	0.014172193
ENSMMUG00000003979	WD repeat containing planar cell polarity effector [Source:VGNC Symbol;Acc:VGNC:79677]	-	1.523078663	0.005765179	0.026109607
ENSMMUG00000021409	developmentally regulated GTP binding protein 2 [Source:VGNC Symbol;Acc:VGNC:71993]	-	1.523044926	0.003733105	0.01835133
ENSMMUG00000016316	testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]	-	1.522487118	0.007486028	0.032073807
ENSMMUG00000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]	-	1.522232623	3.71E-05	0.000387819
ENSMMUG00000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	-	1.521315616	1.80E-05	0.000205967
ENSMMUG00000020898	cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]	-	1.520987252	0.004368649	0.02084827
ENSMMUG00000000618	gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]	-	1.519753101	0.002032129	0.011243132
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]	-	1.518421736	8.33E-05	0.000772692
ENSMMUG000000056147		-	1.518055083	0.001379503	0.008206568
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	-	1.514018271	1.76E-07	3.37E-06
ENSMMUG000000063655	sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]	-	1.510540697	0.000197688	0.001617486
ENSMMUG000000058016	bMERB domain containing 1 [Source:NCBI gene;Acc:713757]	-	-1.51003284	0.000767646	0.005104915
ENSMMUG00000007398	potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]	-	1.509999285	0.001430336	0.008453264
ENSMMUG000000053250		-	1.509481498	0.011790766	0.045294101
ENSMMUG000000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	-	1.505605648	1.32E-06	2.03E-05
ENSMMUG00000018976	adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]	-	1.504852139	0.012263253	0.046694167
ENSMMUG00000018939	leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]	-	1.504728442	0.000372865	0.002762822

ENSMMUG00000057600	V-set and immunoglobulin domain containing 2 [Source:NCBI gene;Acc:712047]	-	1.504629868	0.007975008	0.033642234
ENSMMUG00000001531	leucine rich repeats and immunoglobulin like domains 1 [Source:VGNC Symbol;Acc:VGNC:84156]	-	1.501377611	1.28E-05	0.000153973
ENSMMUG000000053541		-	1.499225633	0.010477945	0.041547428
ENSMMUG00000022880	eukaryotic translation initiation factor 5A2 [Source:VGNC Symbol;Acc:VGNC:72198]	-	1.495021877	0.001891263	0.010582541
ENSMMUG00000046663	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.493410743	0.001665039	0.009584147
ENSMMUG000000056116		-	1.493365233	0.0010677	0.006620719
ENSMMUG00000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	-	1.492928189	1.34E-05	0.000159315
ENSMMUG00000048232	MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]	-	1.492128782	5.07E-05	0.000510326
ENSMMUG00000019148	vitronectin [Source:NCBI gene;Acc:708499]	-	1.489665955	0.002085184	0.01149125
ENSMMUG00000005578	solute carrier family 35 member E2 [Source:VGNC Symbol;Acc:VGNC:77590]	-	1.489190149	0.004643667	0.021919321
ENSMMUG00000021173	nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]	-	-1.48838566	1.62E-07	3.11E-06
ENSMMUG00000026981	EGF like domain multiple 7 [Source:VGNC Symbol;Acc:VGNC:72079]	-	1.488234753	0.000112028	0.001002978
ENSMMUG00000006268	junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]	-	1.487708589	3.01E-06	4.22E-05
ENSMMUG00000018057	uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]	-	-1.48750961	0.001214458	0.007366305
ENSMMUG00000023312	haptoglobin [Source:NCBI gene;Acc:706640]	-	1.486455685	0.007801036	0.033024082
ENSMMUG00000042668	cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]	-	1.486239085	0.0049998	0.023285829
ENSMMUG00000019250	solute carrier family 25 member 27 [Source:VGNC Symbol;Acc:VGNC:77543]	-	1.485181796	2.53E-06	3.60E-05
ENSMMUG00000002678	integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]	-	1.484214459	0.005345253	0.024640479
ENSMMUG00000015414	family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]	-	-1.48101821	0.000417182	0.003049484
ENSMMUG00000011894	CBY1 interacting BAR domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72335]	-	1.479760287	0.000977298	0.006166027
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	-	1.479447628	0.00015874	0.001347672
ENSMMUG00000012209	CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]	-	1.479059272	0.000743575	0.004969243
ENSMMUG00000022532	EPM2A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84184]	-	1.478620721	0.005443042	0.024984946
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	-	1.474651743	9.24E-07	1.47E-05
ENSMMUG00000001529	solute carrier family 25 member 26 [Source:VGNC Symbol;Acc:VGNC:77530]	-	1.473424182	2.70E-05	0.000295085
ENSMMUG000000063312		-	1.472237315	0.003019781	0.015447277
ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]	-	1.470425887	1.19E-12	6.86E-11
ENSMMUG000000053794		-	1.469009901	0.002720566	0.014230753
ENSMMUG000000062623	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.467217186	0.000830908	0.005435522

ENSMMUG0000000443	arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]	-	1.464149319	1.09E-06	1.70E-05
ENSMMUG00000061305		-	1.464105589	0.009004413	0.036943266
ENSMMUG00000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	-	1.459853434	7.70E-06	9.78E-05
ENSMMUG00000007920	myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]	-	1.459286869	0.011706734	0.045051171
ENSMMUG00000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	-	1.458544991	0.000760045	0.00506993
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	-	1.456645689	3.28E-06	4.54E-05
ENSMMUG00000063298		-	1.455999263	0.010090628	0.0403067
ENSMMUG00000014176	cytohesin 1 interacting protein [Source:VGNC Symbol;Acc:VGNC:71831]	-	1.454808807	0.010493246	0.041592876
ENSMMUG00000002183	oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]	-	1.453043406	0.000297367	0.002276594
ENSMMUG00000010627	apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]	-	1.452467627	5.07E-05	0.000510171
ENSMMUG00000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]	-	1.450116814	0.000264234	0.002058434
ENSMMUG00000023401	adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]	-	1.449291895	3.85E-05	0.000399883
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]	-	1.442136678	3.72E-05	0.000387888
ENSMMUG00000018332	family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]	-	1.441736287	0.001372298	0.008168188
ENSMMUG00000013053	sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]	-	1.441190503	0.000824544	0.005406951
ENSMMUG00000012029	sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]	-	1.441169768	0.00227175	0.012304936
ENSMMUG00000023814	mitogen-activated protein kinase kinase kinase 13 [Source:VGNC Symbol;Acc:VGNC:74494]	-	1.440315166	0.012768115	0.048101925
ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	-	1.439492073	4.54E-06	6.07E-05
ENSMMUG00000013513	sex hormone binding globulin [Source:VGNC Symbol;Acc:VGNC:77208]	-	1.438754002	0.000201929	0.001648455
ENSMMUG00000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]	-	1.433523113	0.005053359	0.023492918
ENSMMUG00000062676		-	1.433307411	0.000533907	0.003782746
ENSMMUG00000065091	myelin protein zero like 2 [Source:NCBI gene;Acc:699330]	-	1.432363984	1.04E-05	0.000128309
ENSMMUG00000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	-	1.429054867	0.000579117	0.004052699
ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]	-	1.428603716	2.34E-05	0.000259865
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	-	-1.42625129	2.80E-06	3.95E-05
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	-	1.422252806	9.17E-06	0.000114801
ENSMMUG00000053648	actin binding transcription modulator [Source:NCBI gene;Acc:710486]	-	1.420190566	0.001687968	0.009685253
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]	-	1.416507406	0.000895296	0.00575593
ENSMMUG00000002533	progesterone immunomodulatory binding factor 1 [Source:NCBI gene;Acc:694190]	-	1.416276513	0.004241936	0.020315158

ENSMMUG00000054107		-	1.414024704	0.002783478	0.014462072
ENSMMUG00000001294	FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]	-	1.413973629	0.009354409	0.037996366
ENSMMUG00000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	-	1.412750778	0.000230268	0.001846404
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	-	1.410328158	2.93E-06	4.12E-05
ENSMMUG00000020005	solute carrier family 23 member 2 [Source:NCBI gene;Acc:717939]	-	1.410195418	0.001600098	0.009266769
ENSMMUG00000057282	Y RNA [Source:RFAM;Acc:RF00019]	-	1.409952197	0.007025628	0.030553445
ENSMMUG00000016695	CD320 molecule [Source:VGNC Symbol;Acc:VGNC:70763]	-	1.407631701	0.008417264	0.035057369
ENSMMUG00000054412		-	1.407085983	0.003027831	0.015479235
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	-	1.406537667	0.000923992	0.005894941
ENSMMUG00000019267	interleukin 17 receptor B [Source:VGNC Symbol;Acc:VGNC:73618]	-	1.404605185	0.003396804	0.017004425
ENSMMUG00000021393	calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]	-	1.402422409	0.006903469	0.030143201
ENSMMUG00000052091	dishevelled segment polarity protein 2 [Source:NCBI gene;Acc:714381]	-	1.401862085	0.003569816	0.017667606
ENSMMUG00000022647	cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]	-	1.401457217	0.001493092	0.008743063
ENSMMUG00000005895	nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]	-	1.397563977	0.008995287	0.036939325
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	-	1.397380786	0.000470209	0.003386821
ENSMMUG00000054711		-	1.396282338	0.002157072	0.0118018
ENSMMUG00000062443		-	-1.39616589	0.001388671	0.00825204
ENSMMUG00000063262		-	1.393574391	0.001888802	0.01057983
ENSMMUG00000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	-	-1.39263531	0.000120093	0.001067445
ENSMMUG00000051843		-	1.389440213	0.000708494	0.004793951
ENSMMUG00000005442	5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]	-	1.387518086	0.004883705	0.022823631
ENSMMUG00000060822		-	-1.38665508	2.19E-06	3.17E-05
ENSMMUG00000050065		-	1.386563963	0.005496613	0.025188162
ENSMMUG00000006215	serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]	-	1.386275771	0.010337242	0.041109891
ENSMMUG00000011893	KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]	-	1.385354316	0.000354435	0.002649825
ENSMMUG00000046237	4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]	-	1.383972624	1.49E-05	0.000173986
ENSMMUG00000000546	KIAA0040 ortholog [Source:NCBI gene;Acc:100423509]	-	1.383854293	0.006837788	0.029954386
ENSMMUG00000064806		-	1.383690078	0.005833078	0.026307131
ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]	-	1.382142263	6.03E-06	7.82E-05

ENSMMUG00000044958	adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]	-	1.381837522	0.007099244	0.030799404
ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]	-	1.380573874	8.98E-06	0.000112828
ENSMMUG00000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]	-	-1.38037409	0.002230475	0.012135978
ENSMMUG00000021169	translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]	-	1.373024512	0.000978895	0.00617251
ENSMMUG00000009922	mitochondrial calcium uniporter regulator 1 [Source:VGNC Symbol;Acc:VGNC:81471]	-	1.369256059	5.95E-06	7.74E-05
ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]	-	1.368769348	0.000495042	0.003546821
ENSMMUG00000019254	phospholipase A2 group VII [Source:VGNC Symbol;Acc:VGNC:76158]	-	1.365304781	0.000397321	0.002916109
ENSMMUG00000056257		-	1.364736458	0.000851948	0.005546369
ENSMMUG00000064642		-	1.364089884	0.002085461	0.01149125
ENSMMUG00000050907		-	1.362903329	4.22E-05	0.00043306
ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]	-	1.362814892	3.18E-05	0.000339884
ENSMMUG00000022840	zonadhesin [Source:VGNC Symbol;Acc:VGNC:81797]	-	1.362230422	0.008091386	0.034009568
ENSMMUG00000016857	prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]	-	1.361429479	0.004378796	0.020887493
ENSMMUG00000021670	solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]	-	1.360110158	0.001579389	0.009164181
ENSMMUG00000062140		-	1.358424307	0.007579098	0.032413886
ENSMMUG00000052977	putative protein FAM106C [Source:NCBI gene;Acc:106994084]	-	1.358094548	0.001225078	0.007422412
ENSMMUG00000005225	gap junction protein alpha 1 [Source:VGNC Symbol;Acc:VGNC:73055]	-	1.356540487	0.000186148	0.00153817
ENSMMUG00000012338	G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]	-	1.353242032	3.25E-05	0.000345478
ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]	-	-1.35321336	0.000108454	0.000975815
ENSMMUG00000057021	CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]	-	-1.3517295	0.004900549	0.022882606
ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]	-	1.350572914	5.30E-05	0.000528971
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	-	1.350412956	1.21E-05	0.000146525
ENSMMUG00000022601	cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]	-	1.349642546	0.001771029	0.010060594
ENSMMUG00000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	-	1.348884703	0.000161801	0.001366169
ENSMMUG00000052070	caudal type homeobox 2 [Source:NCBI gene;Acc:711094]	-	1.348786429	0.00736656	0.031692593
ENSMMUG00000011359	eukaryotic translation initiation factor 3 subunit E [Source:VGNC Symbol;Acc:VGNC:83997]	-	-1.34811867	0.00387293	0.018891677
ENSMMUG00000006703	solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]	-	1.347478591	0.008609686	0.03574884
ENSMMUG00000002809	unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]	-	1.345838421	0.005715859	0.025962221
ENSMMUG00000059617		-	1.345784343	5.12E-05	0.000514608
ENSMMUG00000040764	alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]	-	1.341605672	0.001801531	0.010196442

ENSMMUG00000051911		-	1.341463884	0.000390087	0.002864956
ENSMMUG00000000511	cysteinyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:70540]	-	1.341274128	0.005583429	0.025499698
ENSMMUG00000012332	UBA domain containing 2 [Source:NCBI gene;Acc:703484]	-	1.339695957	1.93E-06	2.83E-05
ENSMMUG00000029263	polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]	-	1.337466951	2.76E-05	0.000300016
ENSMMUG00000052651	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.336072136	0.003045392	0.01555433
ENSMMUG00000031224	casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]	-	1.335754696	0.001860967	0.010467215
ENSMMUG00000006755	tubulin tyrosine ligase like 4 [Source:VGNC Symbol;Acc:VGNC:79758]	-	1.333539501	0.002932636	0.015056513
ENSMMUG00000013138	Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]	-	-1.33038903	0.000196823	0.001615294
ENSMMUG00000004019	izumo sperm-egg fusion 1 [Source:VGNC Symbol;Acc:VGNC:73670]	-	-1.33011919	0.007393463	0.031783089
ENSMMUG00000008237	phosphatidylglycerophosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:75890]	-	1.329508286	0.005155369	0.02388713
ENSMMUG00000016135	neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]	-	1.329369196	0.002715207	0.014209583
ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]	-	-1.32766347	0.000798278	0.005266591
ENSMMUG00000022602	methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]	-	1.326849039	0.012235768	0.046606918
ENSMMUG00000013049	formyl peptide receptor 1 [Source:NCBI gene;Acc:719782]	-	-1.32619842	0.008981297	0.036895861
ENSMMUG00000019836	myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]	-	1.326159422	0.002584815	0.013679188
ENSMMUG00000057768		-	1.324538887	1.32E-06	2.03E-05
ENSMMUG00000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]	-	1.324100328	6.80E-05	0.00065462
ENSMMUG00000058966		-	1.323640868	0.00088908	0.00572276
ENSMMUG00000049948		-	1.323150697	0.000722479	0.004870327
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	-	1.322042339	0.000588802	0.00410985
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	-	1.321158329	0.001628462	0.009412323
ENSMMUG00000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]	-	1.320333738	1.57E-06	2.38E-05
ENSMMUG00000002009	nitrilase 1 [Source:VGNC Symbol;Acc:VGNC:75351]	-	1.317531553	0.002742398	0.014310406
ENSMMUG00000022641	ubiquitin C-terminal hydrolase L5 [Source:VGNC Symbol;Acc:VGNC:79197]	-	1.316852808	0.012296196	0.046738486
ENSMMUG00000056306		-	1.316119593	0.000282562	0.002178646
ENSMMUG00000008918	SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]	-	1.314510493	0.000442081	0.003213039
ENSMMUG00000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	-	1.313005573	5.99E-06	7.78E-05
ENSMMUG00000021760	zinc finger protein 79 [Source:NCBI gene;Acc:700961]	-	1.311922185	0.000530349	0.003759994
ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]	-	1.310739707	0.005408249	0.024867388
ENSMMUG00000056553		-	1.310568972	0.011756661	0.045195141

ENSMMUG00000006491	mediator complex subunit 9 [Source:VGNC Symbol;Acc:VGNC:74577]	-	1.309781364	0.000260951	0.002041068
ENSMMUG00000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	-	1.307767636	2.61E-06	3.70E-05
ENSMMUG00000018073	ligand dependent nuclear receptor corepressor like [Source:NCBI gene;Acc:715285]	-	1.307172963	0.000502831	0.003590751
ENSMMUG00000003726	protein tyrosine phosphatase non-receptor type 13 [Source:VGNC Symbol;Acc:VGNC:76599]	-	1.306654812	0.001800017	0.010193194
ENSMMUG000000052282		-	1.302075732	0.000901992	0.005778404
ENSMMUG00000017819	putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]	-	1.299158356	0.000342429	0.002572495
ENSMMUG00000008974	Fc receptor like 5 [Source:NCBI gene;Acc:718771]	-	1.298530509	0.003733622	0.01835133
ENSMMUG000000055590		-	1.298529237	0.000181105	0.001501076
ENSMMUG00000007293	RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]	-	-1.29847328	0.002252422	0.012224693
ENSMMUG00000022120	transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]	-	1.297708781	1.99E-05	0.000223956
ENSMMUG00000019838	phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]	-	1.294336784	9.87E-05	0.000898485
ENSMMUG000000050923		-	1.292464352	0.004825689	0.022630599
ENSMMUG00000012238	polypeptide N-acetylgalactosaminyltransferase 11 [Source:VGNC Symbol;Acc:VGNC:72749]	-	1.289455512	0.012025109	0.046014837
ENSMMUG00000020804	transmembrane protein 132B [Source:NCBI gene;Acc:707118]	-	1.287584703	0.008622054	0.035786479
ENSMMUG000000061260	Spi-C transcription factor [Source:NCBI gene;Acc:695809]	-	1.286724964	0.000700651	0.004749785
ENSMMUG000000053675		-	1.286343592	0.000333731	0.00251587
ENSMMUG00000019146	DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]	-	-1.28613099	0.011170314	0.043409846
ENSMMUG00000006531	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 [Source:VGNC Symbol;Acc:VGNC:77653]	-	1.285775114	0.003329851	0.016707863
ENSMMUG000000043161	endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]	-	1.284368639	0.010013266	0.040086368
ENSMMUG000000043809	caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]	-	1.284331386	0.000240155	0.001915755
ENSMMUG00000012677	lysine demethylase 4B [Source:VGNC Symbol;Acc:VGNC:73930]	-	1.283271704	0.000869599	0.00563419
ENSMMUG00000022520	kinesin light chain 2 [Source:VGNC Symbol;Acc:VGNC:73869]	-	1.282901483	0.00392672	0.019094884
ENSMMUG000000061834		-	-1.28197394	0.000140896	0.001220087
ENSMMUG000000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]	-	1.278322287	1.09E-06	1.71E-05
ENSMMUG00000009038	titin [Source:NCBI gene;Acc:703527]	-	1.278151013	0.002996829	0.015349713
ENSMMUG000000057143	transmembrane protein 127 [Source:NCBI gene;Acc:705069]	-	-1.27622378	0.007679944	0.032664637
ENSMMUG000000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	-	1.274113149	1.01E-06	1.61E-05
ENSMMUG00000019252	tudor domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79319]	-	1.273420896	0.000243146	0.001932505
ENSMMUG00000012408	dispatched RND transporter family member 2 [Source:VGNC Symbol;Acc:VGNC:71676]	-	1.273273711	0.000187571	0.001546392
ENSMMUG00000005048	MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]	-	1.272897535	5.04E-05	0.000507922

ENSMMUG0000003483	cyclin dependent kinase 2 interacting protein [Source:VGNC Symbol;Acc:VGNC:71326]	-	1.272480752	0.001709868	0.009778329
ENSMMUG0000004892	SCO-spondin [Source:VGNC Symbol;Acc:VGNC:81765]	-	1.271275091	0.001102421	0.006804858
ENSMMUG00000020436	potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]	-	1.270067821	0.00110463	0.006814613
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	-	1.268410413	0.008656363	0.03588763
ENSMMUG00000022123	tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]	-	1.267503164	0.002590291	0.013701477
ENSMMUG00000008733	ubiquitin protein ligase E3C [Source:VGNC Symbol;Acc:VGNC:79049]	-	1.265920598	0.002655555	0.013992038
ENSMMUG00000063267	aldo-keto reductase family 1 member C15 [Source:NCBI gene;Acc:722496]	-	1.265244748	0.009006477	0.036943266
ENSMMUG00000003850	collagen type XI alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71290]	-	-1.26447076	0.003120451	0.015833184
ENSMMUG00000002010	death effector domain containing [Source:VGNC Symbol;Acc:VGNC:71768]	-	1.264464765	0.00032297	0.002450098
ENSMMUG00000009519	WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]	-	1.260865468	0.003020154	0.015447277
ENSMMUG00000008792	G-patch domain containing 2 like [Source:VGNC Symbol;Acc:VGNC:72973]	-	1.260046234	0.012866839	0.048448545
ENSMMUG00000004362	Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]	-	1.259194336	0.002644129	0.013947942
ENSMMUG00000023398	collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]	-	1.257386493	8.31E-05	0.000771837
ENSMMUG00000018791	molybdenum cofactor sulfurase [Source:VGNC Symbol;Acc:VGNC:74792]	-	1.256986426	0.006957147	0.030316483
ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]	-	1.256460813	0.001926536	0.010735684
ENSMMUG00000004329	solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]	-	1.254717306	0.00210506	0.011569822
ENSMMUG00000004754	intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]	-	1.254394307	0.001857814	0.010460344
ENSMMUG00000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.252720477	0.002353999	0.01269935
ENSMMUG00000004954	apoptosis inducing factor mitochondria associated 1 [Source:VGNC Symbol;Acc:VGNC:69820]	-	1.251943685	0.001462856	0.008607886
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]	-	1.248908225	2.38E-05	0.000263516
ENSMMUG00000013032	phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]	-	1.245712092	0.003124237	0.015843826
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	-	1.245289587	0.003425234	0.017107221
ENSMMUG00000048823		-	1.242851827	0.000759708	0.00506993
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	-	1.241338016	0.000853488	0.00554972
ENSMMUG00000020377	collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]	-	-1.23824423	0.000346038	0.002594204
ENSMMUG00000053789		-	1.237506971	0.007272918	0.031369001
ENSMMUG00000005042	RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]	-	1.236217915	0.004218922	0.020240736
ENSMMUG00000000350	basic, immunoglobulin-like variable motif containing [Source:NCBI gene;Acc:100426213]	-	1.235911642	0.004119636	0.019861154
ENSMMUG00000007250	RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]	-	1.234149111	0.006324682	0.028068528

ENSMMUG00000007244	OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]	-	1.233587258	0.00096987	0.006122728
ENSMMUG00000002497	zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]	-	1.232567005	0.009924685	0.039840197
ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]	-	1.230613208	0.007047968	0.030601459
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	-	-1.22999081	8.14E-05	0.000757929
ENSMMUG00000005610	protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]	-	1.229723114	0.010544876	0.041736442
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	-	1.228233644	3.28E-05	0.000348438
ENSMMUG00000007421	zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]	-	-1.22808371	5.07E-07	8.86E-06
ENSMMUG00000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]	-	-1.2277423	0.007345264	0.031629081
ENSMMUG00000008541	BRCA2 and CDKN1A interacting protein [Source:NCBI gene;Acc:699437]	-	1.222572546	0.000699001	0.004741562
ENSMMUG00000011189	tousled like kinase 1 [Source:VGNC Symbol;Acc:VGNC:78367]	-	1.220287873	0.004700775	0.022102211
ENSMMUG00000059663		-	1.216810869	0.002439256	0.013031027
ENSMMUG00000054064		-	1.214707846	1.22E-05	0.000147593
ENSMMUG00000011675	zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]	-	1.214309919	0.000761637	0.005073654
ENSMMUG00000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	-	1.214235947	0.000621846	0.00429621
ENSMMUG00000012961	mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]	-	1.213750531	0.002243932	0.012184722
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	-	1.213583477	0.000235578	0.001884795
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	-	1.211655359	0.000309946	0.00236121
ENSMMUG00000014727	NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]	-	1.205891894	0.00139116	0.008262298
ENSMMUG00000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	-	1.203438591	1.99E-09	5.80E-08
ENSMMUG00000056515		-	1.201098626	0.002487337	0.013234443
ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	-	-1.1987432	0.000139412	0.001208197
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	-	1.198672556	0.000130594	0.001146451
ENSMMUG00000002244	early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]	-	1.195478845	0.002701715	0.014159498
ENSMMUG00000022044	scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]	-	1.189919736	5.79E-05	0.000571595
ENSMMUG00000064529		-	1.189447514	0.010166046	0.040578029
ENSMMUG00000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]	-	1.187800871	0.00060992	0.004230002
ENSMMUG00000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]	-	1.186833815	5.91E-05	0.000582347
ENSMMUG00000001888	mahogunin ring finger 1 [Source:VGNC Symbol;Acc:VGNC:74542]	-	1.186590954	0.012267926	0.046694167
ENSMMUG00000001986	WD repeat domain 24 [Source:VGNC Symbol;Acc:VGNC:79289]	-	1.184771717	0.009147098	0.037350364
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]	-	1.183707341	1.87E-07	3.53E-06

ENSMMUG00000023005	Sp9 transcription factor [Source:VGNC Symbol;Acc:VGNC:78027]	1.179649088	7.79E-05	0.000733092
ENSMMUG00000008539	uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]	-1.17877254	0.001082471	0.006700806
ENSMMUG00000058836	transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]	1.177423262	0.000522764	0.00371351
ENSMMUG00000063668	cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]	1.177280108	0.012277142	0.046698833
ENSMMUG00000021216	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]	1.176606931	0.001085139	0.006713483
ENSMMUG00000023676	espin [Source:NCBI gene;Acc:722532]	1.176471488	2.56E-05	0.000281649
ENSMMUG00000004579	RAD51 recombinase [Source:VGNC Symbol;Acc:VGNC:76645]	-1.17544595	0.001930923	0.010754593
ENSMMUG00000023226	RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]	1.173588268	0.000149533	0.001280549
ENSMMUG00000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	1.173518459	3.57E-05	0.000375712
ENSMMUG00000021171	apolipoprotein B mRNA editing enzyme catalytic subunit 2 [Source:VGNC Symbol;Acc:VGNC:69986]	1.172281042	0.002578617	0.013653058
ENSMMUG00000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]	1.171715694	0.000576071	0.004036597
ENSMMUG00000014677	dynamain 2 [Source:VGNC Symbol;Acc:VGNC:71957]	1.167056592	0.007690824	0.032685249
ENSMMUG00000006018	sperm associated antigen 5 [Source:NCBI gene;Acc:709400]	-1.16590565	0.007219443	0.031233318
ENSMMUG00000062527		1.162329375	0.000206528	0.001678406
ENSMMUG00000031296	caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]	1.162073993	0.001345271	0.008038233
ENSMMUG00000007998	HIVEP zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:83427]	1.161111067	0.000475356	0.003417344
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	-1.1588294	5.27E-05	0.000526166
ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]	1.156950833	0.006401846	0.028341315
ENSMMUG00000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	1.156352264	0.000286004	0.002200484
ENSMMUG00000014350	MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]	1.155722105	0.000808646	0.005318282
ENSMMUG00000020691	AAR2 splicing factor [Source:VGNC Symbol;Acc:VGNC:69412]	1.155073111	0.013195231	0.049598866
ENSMMUG00000064337	nectin cell adhesion molecule 4 [Source:NCBI gene;Acc:719843]	-1.15178815	0.00102337	0.006404485
ENSMMUG00000021372	EMI domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72063]	1.151556605	0.012571411	0.047584242
ENSMMUG00000064237		1.150706488	0.005814657	0.026256847
ENSMMUG00000059986		1.149098395	1.37E-05	0.000162317
ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]	1.148319966	0.000439749	0.003199326
ENSMMUG00000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]	1.147100427	0.012271605	0.046694167
ENSMMUG00000007257	synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]	1.146818293	0.00034151	0.002569151
ENSMMUG00000014438	piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]	1.145101907	7.53E-05	0.000710635
ENSMMUG00000050239		1.143808655	0.00754271	0.032271003

ENSMMUG0000005233	PRAME family member 17-like [Source:NCBI gene;Acc:100427847]	-	1.142969762	0.002821984	0.014613077
ENSMMUG00000057808		-	1.140575879	0.01299483	0.04891348
ENSMMUG00000020690	erythrocyte membrane protein band 4.1 like 1 [Source:VGNC Symbol;Acc:VGNC:72231]	-	1.138514402	0.000255511	0.002008676
ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	-	1.135930816	1.16E-05	0.000140833
ENSMMUG00000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]	-	1.133409581	0.000401801	0.002946994
ENSMMUG00000009226	mitogen-activated protein kinase kinase kinase 21 [Source:NCBI gene;Acc:712755]	-	1.132439223	0.001120821	0.006890953
ENSMMUG00000005761	UBX domain protein 1 [Source:VGNC Symbol;Acc:VGNC:79135]	-	1.131888745	0.009564145	0.038713876
ENSMMUG00000008004	transmembrane immune signaling adaptor TYROBP [Source:NCBI gene;Acc:574207]	-	1.130965331	0.000282033	0.002177668
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	-	1.129208344	1.55E-06	2.35E-05
ENSMMUG00000021808	cryptochrome circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:71499]	-	1.128680787	0.001118749	0.006882115
ENSMMUG00000013183	F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]	-	1.128063159	0.00087026	0.005635099
ENSMMUG00000002093	testis expressed 261 [Source:NCBI gene;Acc:703863]	-	1.127175614	0.000921432	0.005882071
ENSMMUG00000013707	heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]	-	1.124383573	1.81E-05	0.000206259
ENSMMUG00000002589	sulfotransferase 1C3-like [Source:NCBI gene;Acc:114671897]	-	1.124031251	0.007135454	0.03091935
ENSMMUG00000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	-	1.123578541	0.000259578	0.002031796
ENSMMUG000000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]	-	1.123491776	0.00174497	0.009938625
ENSMMUG00000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]	-	1.119631258	0.000163454	0.001377977
ENSMMUG000000043922	spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]	-	1.118272005	0.000679811	0.004628779
ENSMMUG00000012769	limb development membrane protein 1 like [Source:VGNC Symbol;Acc:VGNC:74310]	-	1.117030619	0.004774055	0.022407861
ENSMMUG000000063288		-	1.116382636	0.000624415	0.004311211
ENSMMUG00000018285	cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]	-	1.113898861	0.001041825	0.00649522
ENSMMUG00000017379	myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]	-	1.113734969	0.002979476	0.015268054
ENSMMUG000000063972		-	1.109707486	0.010534085	0.041724222
ENSMMUG00000018468	senataxin [Source:VGNC Symbol;Acc:VGNC:77356]	-	1.109132834	0.000783013	0.005178497
ENSMMUG000000051743	TLC domain containing 1 [Source:NCBI gene;Acc:710391]	-	1.107705172	0.012705794	0.047942135
ENSMMUG000000044047	killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]	-	1.107689635	0.008085071	0.03400061
ENSMMUG000000046282		-	1.105154656	0.000211227	0.0017089
ENSMMUG00000017886	F-box protein 10 [Source:NCBI gene;Acc:718443]	-	1.105151526	0.003868952	0.01888795

ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]	-	1.104639423	0.006414668	0.028372545
ENSMMUG00000002638	WD repeat domain 18 [Source:VGNC Symbol;Acc:VGNC:79103]	-	1.104569854	0.00542102	0.024910983
ENSMMUG00000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	-	1.104098731	4.90E-06	6.49E-05
ENSMMUG00000021112	epithelial splicing regulatory protein 1 [Source:VGNC Symbol;Acc:VGNC:72358]	-	1.103310375	0.0009612	0.006075078
ENSMMUG00000064473	MRT4 homolog, ribosome maturation factor [Source:NCBI gene;Acc:702926]	-	1.102641606	0.012613125	0.047708791
ENSMMUG00000014451	ASXL transcriptional regulator 3 [Source:VGNC Symbol;Acc:VGNC:70152]	-	1.102509424	0.004526466	0.021478406
ENSMMUG00000013376	POU class 2 homeobox 2 [Source:NCBI gene;Acc:706835]	-	1.101575612	0.001216267	0.007373149
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	-	1.098759184	2.82E-05	0.000304764
ENSMMUG00000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]	-	1.098115339	0.003422491	0.017102075
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	-	1.097968651	4.22E-05	0.00043306
ENSMMUG00000057655		-	1.097491003	0.000174208	0.001452802
ENSMMUG00000022056	DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]	-	1.096773251	0.006292736	0.02796112
ENSMMUG00000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.096682766	0.004021346	0.019470007
ENSMMUG00000060798		-	1.096175677	0.012175033	0.046476551
ENSMMUG00000015198	glutamate decarboxylase 1 [Source:VGNC Symbol;Acc:VGNC:72862]	-	1.093794013	0.007699117	0.03268984
ENSMMUG00000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.088208777	0.002890997	0.014885064
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]	-	-1.08798707	0.000137261	0.001192418
ENSMMUG00000050862		-	1.086201793	0.004549589	0.021569233
ENSMMUG00000050991		-	1.082562516	0.000372042	0.002758613
ENSMMUG00000038447		-	-1.08141794	0.004430782	0.021098312
ENSMMUG00000047067	SERTA domain containing 2 [Source:NCBI gene;Acc:696216]	-	1.079651492	0.004552334	0.021572805
ENSMMUG00000011963	vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]	-	1.079406314	1.02E-06	1.61E-05
ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	-	-1.07495413	0.001738667	0.009923596
ENSMMUG00000031202	RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]	-	1.074433565	0.011862807	0.045538549
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]	-	1.070783901	0.000129915	0.001143124
ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	-	1.069817657	0.002698901	0.014151596
ENSMMUG00000009126	solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]	-	1.067561079	0.000137243	0.001192418
ENSMMUG00000020813	NADH:ubiquinone oxidoreductase subunit A9 [Source:VGNC Symbol;Acc:VGNC:81480]	-	1.065851269	0.012640917	0.047747229
ENSMMUG00000056280	G protein subunit alpha i2 [Source:NCBI gene;Acc:703780]	-	1.064659758	0.007230773	0.031248597

ENSMMUG00000015619	ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]	-	1.060924199	0.004359891	0.020815645
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]	-	1.053066813	0.000290306	0.002228834
ENSMMUG00000021914	spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]	-	1.049558797	0.00422511	0.020261451
ENSMMUG00000000983	aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]	-	1.046014008	0.006053447	0.027090405
ENSMMUG00000008917	S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]	-	1.045261448	0.010264834	0.040897003
ENSMMUG00000005463	bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]	-	1.043137299	0.00385934	0.018866532
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	-	1.040639904	8.52E-05	0.000787383
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	-	1.040442925	4.50E-05	0.000459119
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]	-	1.039072281	0.000197458	0.00161683
ENSMMUG000000058044		-	1.038797816	0.001896277	0.010597215
ENSMMUG000000044214		-	1.037031922	0.000261821	0.002043446
ENSMMUG00000013601	chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]	-	1.036273542	0.002917736	0.014987121
ENSMMUG00000007246	myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]	-	1.036035475	0.008957718	0.036834508
ENSMMUG000000031856	talin 1 [Source:VGNC Symbol;Acc:VGNC:78371]	-	1.035922372	0.001058598	0.006571801
ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]	-	1.035374292	0.001452906	0.008558636
ENSMMUG000000049939		-	1.030375238	9.03E-05	0.000830821
ENSMMUG000000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]	-	1.027450908	0.009481075	0.038424426
ENSMMUG00000023810	methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]	-	1.026359098	0.008316307	0.034729596
ENSMMUG000000048077	ataxin 1 like [Source:NCBI gene;Acc:709805]	-	1.017668925	0.007989343	0.033674926
ENSMMUG000000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	-	1.016154168	0.004257448	0.020380437
ENSMMUG00000003288	glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]	-	1.014920148	0.007240621	0.031250057
ENSMMUG00000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	-	1.008587847	0.000107316	0.000967814
ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]	-	1.005175137	0.012235122	0.046606918
ENSMMUG00000001008	spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]	-	1.003705146	0.003530271	0.017526778
ENSMMUG00000019841	leucine rich pentatricopeptide repeat containing [Source:VGNC Symbol;Acc:VGNC:82177]	-	1.003254793	0.006868742	0.030052135
ENSMMUG000000053389		-	1.002394841	0.006880285	0.030081467
ENSMMUG00000008781	BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]	-	1.000641666	0.008329739	0.034759652
ENSMMUG00000020004	Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]	-	-1.00036957	0.004096576	0.019767574
ENSMMUG00000000681	calmin [Source:VGNC Symbol;Acc:VGNC:71232]	-	0.999297153	0.001860576	0.010467215

ENSMMUG00000022624	putative speedy protein E16 [Source:NCBI gene;Acc:718058]	-	0.998263502	0.007384548	0.031757368
ENSMMUG00000044163	zinc finger CCCH-type containing 8 [Source:NCBI gene;Acc:698828]	-	0.996463321	0.007360119	0.031677463
ENSMMUG00000000718	ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]	-	0.996265658	0.001741941	0.009931325
ENSMMUG00000006754	tetratricopeptide repeat domain 4 [Source:VGNC Symbol;Acc:VGNC:78668]	-	0.995882592	0.003630778	0.017910846
ENSMMUG00000004648	KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]	-	0.994475185	0.001693782	0.00971347
ENSMMUG00000010171	proline-serine-threonine phosphatase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:76459]	-	0.993432398	0.002669822	0.01405354
ENSMMUG00000004113	major facilitator superfamily domain containing 4A [Source:VGNC Symbol;Acc:VGNC:74575]	-	0.989597463	0.003491425	0.017381711
ENSMMUG00000023000	mepirin A subunit alpha [Source:VGNC Symbol;Acc:VGNC:74704]	-	0.989015141	0.011159727	0.043393154
ENSMMUG00000003051	COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]	-	0.988862491	0.000180911	0.001500615
ENSMMUG00000003081	G protein signaling modulator 1 [Source:VGNC Symbol;Acc:VGNC:72960]	-	0.987397178	0.002744875	0.014316431
ENSMMUG00000002429	catalase [Source:VGNC Symbol;Acc:VGNC:70552]	-	0.986933903	0.001618709	0.00936224
ENSMMUG00000023397	penta-EF-hand domain containing 1 [Source:NCBI gene;Acc:706038]	-	0.986192776	0.005639974	0.025660577
ENSMMUG00000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]	-	0.983246792	1.48E-05	0.000173172
ENSMMUG00000061186		-	0.983085765	0.010808897	0.042486496
ENSMMUG00000016475	M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]	-	0.982680937	0.003610351	0.017826311
ENSMMUG00000058740		-	0.978803214	0.002498427	0.013286923
ENSMMUG00000002879	GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]	-	-0.97525296	0.004211754	0.0202153
ENSMMUG00000055128	phosphoglycolate phosphatase [Source:NCBI gene;Acc:695591]	-	0.972319514	0.006511327	0.028708672
ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]	-	0.971336344	0.012307032	0.046754789
ENSMMUG00000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]	-	0.969355085	0.00011003	0.000986719
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	-	0.965897405	0.00831933	0.034729596
ENSMMUG00000006515	C-type lectin domain containing 16A [Source:VGNC Symbol;Acc:VGNC:71369]	-	0.963272263	0.00719102	0.031135218
ENSMMUG00000032295	zinc finger protein 595 [Source:VGNC Symbol;Acc:VGNC:79655]	-	0.962744683	0.010982385	0.042872857
ENSMMUG00000010978	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]	-	0.959782006	0.009897053	0.039768091
ENSMMUG00000000662	guanylate-binding protein 1 [Source:NCBI gene;Acc:694538]	-	-0.95740065	0.000953729	0.006034898
ENSMMUG00000007692	apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]	-	0.955874431	0.003873204	0.018891677
ENSMMUG00000012091	thioredoxin reductase 1 [Source:VGNC Symbol;Acc:VGNC:78679]	-	0.951609116	0.001166434	0.00712689
ENSMMUG00000040958	lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]	-	0.951086725	0.001037276	0.006478922
ENSMMUG00000005334	phospholipase C gamma 2 [Source:VGNC Symbol;Acc:VGNC:76170]	-	0.947213522	6.09E-05	0.000595836

ENSMMUG00000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	-0.94539914	0.000719275	0.004857797
ENSMMUG00000008396	methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]	0.944980414	0.00211864	0.011614994
ENSMMUG00000019266	choline dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71086]	0.943759545	0.010787173	0.042431897
ENSMMUG00000011335	Fc receptor like 6 [Source:VGNC Symbol;Acc:VGNC:72602]	-0.93879102	0.001049	0.006527179
ENSMMUG00000005466	SPOC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77997]	-0.93755052	0.011136086	0.043332333
ENSMMUG00000054462		0.934377922	0.003297299	0.016582934
ENSMMUG00000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	0.934167172	0.001063232	0.006596786
ENSMMUG00000059753		0.933830765	0.005963281	0.026782847
ENSMMUG00000013031	bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]	0.931218349	0.008905174	0.036694467
ENSMMUG00000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]	0.930162397	0.000826511	0.005410025
ENSMMUG00000006048	adaptor related protein complex 2 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69964]	0.928919358	0.009053654	0.037066605
ENSMMUG00000033738	RNA, U6atac small nuclear 6, pseudogene [Source:HGNC Symbol;Acc:HGNC:46905]	0.926645446	0.007664056	0.032609868
ENSMMUG00000002777	protein tyrosine phosphatase 4A1 [Source:VGNC Symbol;Acc:VGNC:83452]	0.922628894	0.000708143	0.004793951
ENSMMUG00000004223	ring finger protein 10 [Source:VGNC Symbol;Acc:VGNC:76702]	0.919399937	0.002166368	0.011834726
ENSMMUG000000043504		0.919152547	0.006050772	0.027090405
ENSMMUG00000004624	synaptojanin 1 [Source:VGNC Symbol;Acc:VGNC:78071]	0.918363577	0.008141695	0.034172407
ENSMMUG00000006163	malate dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:74690]	0.913802416	0.005271647	0.024373773
ENSMMUG000000061846		0.911327887	0.002115772	0.011610742
ENSMMUG00000005136	TRPM8 channel associated factor 1 [Source:VGNC Symbol;Acc:VGNC:79346]	0.911073196	0.001953152	0.010861653
ENSMMUG00000018051	FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]	0.910150802	5.06E-05	0.000510171
ENSMMUG00000000044	intraflagellar transport 140 [Source:VGNC Symbol;Acc:VGNC:73456]	0.909912684	0.008676122	0.035955788
ENSMMUG000000054737		-0.90916523	0.000120116	0.001067445
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	0.908505493	0.006298956	0.027977283
ENSMMUG00000011417	glyoxalase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72939]	0.905392341	0.006916508	0.030160865
ENSMMUG00000001432	t-SNARE domain containing 1 [Source:NCBI gene;Acc:701269]	0.903590012	0.000578382	0.004050167
ENSMMUG000000063348		0.903038332	0.003912366	0.019039832
ENSMMUG00000015737	phosphatidylinositol glycan anchor biosynthesis class A [Source:VGNC Symbol;Acc:VGNC:75984]	0.902838786	0.008155698	0.03419544
ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	0.902506278	3.42E-05	0.000361541
ENSMMUG00000017478	tescalcin [Source:VGNC Symbol;Acc:VGNC:79571]	0.901418308	0.00809348	0.034009568
ENSMMUG000000052496		0.894366354	0.001676483	0.009634666

ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]	-	0.891294496	0.002595879	0.01372433
ENSMMUG00000057209		-	0.891043465	0.008049761	0.033878424
ENSMMUG00000003325	pyridoxamine 5'-phosphate oxidase [Source:VGNC Symbol;Acc:VGNC:76141]	-	0.890582035	0.010698715	0.042160485
ENSMMUG00000018282	interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]	-	0.888341835	0.003117638	0.015826321
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	-	0.887736805	0.009622669	0.03889641
ENSMMUG00000022251	transglutaminase 7 [Source:VGNC Symbol;Acc:VGNC:79880]	-	0.886776418	0.001018283	0.006376337
ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	-	0.884837547	0.003196016	0.016171155
ENSMMUG00000063864		-	-0.88257876	0.004570521	0.021621159
ENSMMUG00000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]	-	0.877798733	0.006395377	0.028335838
ENSMMUG00000009775	caveolae associated protein 4 [Source:NCBI gene;Acc:714379]	-	0.872102629	0.001727067	0.009862583
ENSMMUG00000001978	adenosine monophosphate deaminase 1 [Source:VGNC Symbol;Acc:VGNC:69806]	-	0.867880079	0.003781337	0.018569005
ENSMMUG00000062591	insulin induced gene 1 [Source:NCBI gene;Acc:718513]	-	0.863035288	0.003786234	0.018584627
ENSMMUG00000018785	elongator acetyltransferase complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72069]	-	0.862913259	0.003282262	0.01652265
ENSMMUG00000012601	RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]	-	0.861152819	0.002644611	0.013947942
ENSMMUG00000007570	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	-	-0.85973448	0.001779109	0.010095906
ENSMMUG00000061176		-	0.854239592	0.000132404	0.001160466
ENSMMUG00000018186	sosondowah ankyrin repeat domain family member B [Source:VGNC Symbol;Acc:VGNC:78033]	-	0.852849539	0.001047669	0.006524984
ENSMMUG00000056693		-	0.851888651	0.000109717	0.00098473
ENSMMUG00000019470	pecanex 1 [Source:VGNC Symbol;Acc:VGNC:75655]	-	0.851870002	0.007986369	0.033674926
ENSMMUG00000006340	solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]	-	0.849271474	0.000781276	0.005173328
ENSMMUG00000018784	solute carrier family 39 member 6 [Source:VGNC Symbol;Acc:VGNC:77508]	-	0.848302434	0.000555145	0.003920392
ENSMMUG00000018542	leucyl and cystinyl aminopeptidase [Source:VGNC Symbol;Acc:VGNC:74438]	-	0.846435543	0.003947521	0.019176456
ENSMMUG00000018929	ankyrin repeat domain 10 [Source:VGNC Symbol;Acc:VGNC:69646]	-	0.844300415	0.00087415	0.005650159
ENSMMUG00000013625	ATPase phospholipid transporting 11A [Source:VGNC Symbol;Acc:VGNC:70064]	-	-0.84200026	0.004660836	0.021970904
ENSMMUG00000008313	zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]	-	0.840952271	0.001396757	0.008290998
ENSMMUG00000042154	ankyrin repeat domain 66 [Source:VGNC Symbol;Acc:VGNC:81024]	-	0.837962548	0.00615911	0.027468769
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	-	0.836576833	0.010835086	0.042543128
ENSMMUG00000008423	septin 4 [Source:NCBI gene;Acc:714724]	-	0.830544793	0.000143169	0.001235818
ENSMMUG00000049640		-	0.828057942	0.011394669	0.044006578

ENSMMUG0000001423	family with sequence similarity 214 member A [Source:VGNC Symbol;Acc:VGNC:72354]	-	0.827591965	0.000877631	0.005662524
ENSMMUG00000021385	carbonic anhydrase 14 [Source:VGNC Symbol;Acc:VGNC:70489]	-	0.819234246	0.00930809	0.037865018
ENSMMUG00000000978	cramped chromatin regulator homolog 1 [Source:NCBI gene;Acc:722473]	-	-0.81801907	0.002176939	0.011880492
ENSMMUG00000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	-	0.816012504	0.004395879	0.020959751
ENSMMUG00000018738	alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]	-	0.815853534	0.002907847	0.0149505
ENSMMUG00000063721		-	0.814665784	0.006648661	0.029219047
ENSMMUG00000044782		-	0.806576528	0.003908317	0.01903723
ENSMMUG00000007078	N-acylsphingosine amidohydrolase 2 [Source:NCBI gene;Acc:703913]	-	-0.79937726	0.000721012	0.004866493
ENSMMUG00000017276	nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]	-	0.792676763	0.004843316	0.022683806
ENSMMUG00000011964	RAN binding protein 3 [Source:VGNC Symbol;Acc:VGNC:76655]	-	0.790395083	0.00479918	0.022516032
ENSMMUG00000062635		-	0.786260174	0.002823501	0.014613946
ENSMMUG00000006493	ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]	-	0.783684118	0.011899987	0.045608578
ENSMMUG00000007576	EYA transcriptional coactivator and phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:72453]	-	0.783487413	0.001301658	0.007838168
ENSMMUG00000013093	uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]	-	0.781967075	0.003268825	0.016477979
ENSMMUG00000046906		-	0.778342827	0.012182994	0.046486665
ENSMMUG00000001228	LLGL scribble cell polarity complex component 2 [Source:NCBI gene;Acc:706973]	-	0.776970938	0.000737423	0.004940324
ENSMMUG00000052418		-	-0.77427224	0.002516603	0.013363902
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	-	0.769405664	0.006386059	0.028317715
ENSMMUG00000061085		-	0.768130751	0.008546108	0.03551208
ENSMMUG00000048882	KIAA0408 ortholog [Source:NCBI gene;Acc:100429459]	-	0.761356146	0.000963661	0.006087076
ENSMMUG00000008392	huntingtin [Source:VGNC Symbol;Acc:VGNC:73468]	-	0.756590255	0.013062759	0.049135025
ENSMMUG00000056466		-	-0.75112126	0.011234186	0.043557601
ENSMMUG00000008941	DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]	-	0.744950659	0.003406384	0.017042466
ENSMMUG00000022293	FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]	-	0.743732043	0.012175801	0.046476551
ENSMMUG00000009461	SMAD specific E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77727]	-	-0.74264884	0.010083138	0.040306508
ENSMMUG00000022714	phosphomannomutase 2 [Source:VGNC Symbol;Acc:VGNC:76193]	-	0.732496809	0.002608456	0.013784101
ENSMMUG00000018281	interleukin 17 receptor E [Source:VGNC Symbol;Acc:VGNC:73623]	-	0.727759331	0.008830483	0.036442144
ENSMMUG00000007301	dynein cytoplasmic 1 intermediate chain 2 [Source:VGNC Symbol;Acc:VGNC:71953]	-	0.727178338	0.010470163	0.041531774
ENSMMUG00000056105	T-box transcription factor 10 [Source:NCBI gene;Acc:721689]	-	0.723282066	0.001537521	0.008988651
ENSMMUG00000010939	rhopilin Rho GTPase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76779]	-	0.723034996	0.005373105	0.024747809

ENSMMUG00000012587	zinc finger protein 69 [Source:NCBI gene;Acc:717030]	-	0.719011766	0.009019477	0.036970314
ENSMMUG00000023002	adhesion G protein-coupled receptor F5 [Source:VGNC Symbol;Acc:VGNC:69471]	-	0.718287402	0.003048871	0.015564759
ENSMMUG00000018699	chromosome 1 C1orf159 homolog [Source:VGNC Symbol;Acc:VGNC:70393]	-	0.705703831	0.007859164	0.033231197
ENSMMUG00000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]	-	0.703278826	0.003007526	0.015397228
ENSMMUG00000014691	inhibitor of DNA binding 4, HLH protein [Source:VGNC Symbol;Acc:VGNC:73557]	-	0.702924636	0.004518011	0.021457085
ENSMMUG00000040100	Fos proto-oncogene, AP-1 transcription factor subunit [Source:VGNC Symbol;Acc:VGNC:84340]	-	0.702596694	0.007047919	0.030601459
ENSMMUG00000001407	solute carrier family 5 member 11 [Source:VGNC Symbol;Acc:VGNC:77759]	-	0.697736689	0.002031075	0.011243044
ENSMMUG00000049484		-	-0.69662374	0.004105899	0.019803743
ENSMMUG00000016522	neurolysin [Source:VGNC Symbol;Acc:VGNC:75183]	-	0.692518073	0.001448458	0.008541721
ENSMMUG00000054112		-	0.692468104	0.009936578	0.039867758
ENSMMUG00000022303	solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]	-	-0.69178255	0.005579897	0.025494314
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	-	0.691506239	0.002260608	0.012256839
ENSMMUG00000013188	serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]	-	0.689694913	0.007647435	0.032583267
ENSMMUG00000003462	ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]	-	0.686741409	0.007828345	0.033126742
ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]	-	0.684842396	0.01249968	0.047362376
ENSMMUG00000017677	chromosome 7 C14orf28 homolog [Source:VGNC Symbol;Acc:VGNC:70581]	-	0.681006726	0.009244764	0.037649821
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]	-	0.680803841	0.011368239	0.043935832
ENSMMUG00000039824	aminoacylase 3 [Source:NCBI gene;Acc:711083]	-	0.677807136	0.00613534	0.027396596
ENSMMUG00000008687	B cell linker [Source:VGNC Symbol;Acc:VGNC:70306]	-	0.677577344	0.008148905	0.03418942
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	-	-0.67141805	0.001573669	0.00913588
ENSMMUG00000020150	xin actin binding repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:78952]	-	0.666361493	0.005163606	0.023915069
ENSMMUG00000017725	eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]	-	0.664293811	0.003522129	0.017502399
ENSMMUG00000009106	solute carrier family 2 member 11 [Source:NCBI gene;Acc:699450]	-	0.664102341	0.00069505	0.004720676
ENSMMUG00000047974	aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]	-	-0.66108341	0.003518592	0.017492842
ENSMMUG00000063474		-	0.653364474	0.006913133	0.030160865
ENSMMUG00000008323	C-terminal binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71539]	-	0.649290956	0.002108761	0.011584285
ENSMMUG00000021782	LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]	-	0.625600183	0.005924968	0.026643908
ENSMMUG00000003263	stromal antigen 1 [Source:VGNC Symbol;Acc:VGNC:77901]	-	-0.61818652	0.01062269	0.041975485
ENSMMUG00000017170	cerebral dopamine neurotrophic factor [Source:VGNC Symbol;Acc:VGNC:71094]	-	0.617313773	0.007648781	0.032583267
ENSMMUG00000004112	MRE11 homolog, double strand break repair nuclease [Source:VGNC Symbol;Acc:VGNC:74926]	-	0.617109052	0.00952935	0.038605626

ENSMMUG00000060440	leucine rich repeat LGI family member 2 [Source:NCBI gene;Acc:693308]	-	0.610667153	0.007487737	0.032073807
ENSMMUG00000019564	mitogen-activated protein kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81453]	-	0.605859222	0.000653449	0.0044746
ENSMMUG00000020277	double C2 domain alpha [Source:VGNC Symbol;Acc:VGNC:71963]	-	0.599319469	0.002204047	0.012004245
ENSMMUG00000014610	ring finger protein 17 [Source:NCBI gene;Acc:708198]	-	0.585256461	0.01086601	0.042587369
ENSMMUG00000006202	solute carrier family 1 member 3 [Source:VGNC Symbol;Acc:VGNC:77411]	-	0.582269578	0.003494831	0.017390677
ENSMMUG00000011713	leupaxin [Source:VGNC Symbol;Acc:VGNC:74286]	-	0.581164798	0.005141481	0.023832977
ENSMMUG00000016740	defective in cullin neddylation 1 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:71684]	-	0.580437292	0.003802681	0.018656902
ENSMMUG00000005469	endoplasmic reticulum metalloproteinase 1 [Source:VGNC Symbol;Acc:VGNC:72322]	-	-0.55442413	0.010089639	0.0403067
ENSMMUG000000063979		-	0.524897744	0.011176456	0.043411454
ENSMMUG00000006399	chaperonin containing TCP1 subunit 6B [Source:VGNC Symbol;Acc:VGNC:70748]	-	0.48299387	0.012619816	0.047717441
ENSMMUG00000013858	ATP binding cassette subfamily A member 4 [Source:VGNC Symbol;Acc:VGNC:69563]	-	0.488368262	0.006226469	0.027694185
ENSMMUG000000061922		-	0.488745486	0.012543358	0.047494653
ENSMMUG00000008166	dynein axonemal heavy chain 2 [Source:VGNC Symbol;Acc:VGNC:71940]	-	0.491851909	0.011195911	0.043465146
ENSMMUG00000017786	poly(A) binding protein cytoplasmic 1 [Source:VGNC Symbol;Acc:VGNC:84098]	-	0.508531262	0.011360344	0.043920986
ENSMMUG00000014641		-	0.510773033	0.007345959	0.031629081
ENSMMUG00000008885	exocyst complex component 7 [Source:VGNC Symbol;Acc:VGNC:72319]	-	0.511873698	0.010814444	0.042492881
ENSMMUG00000016521	small glutamine rich tetratricopeptide repeat containing beta [Source:VGNC Symbol;Acc:VGNC:77296]	-	0.545960994	0.004893695	0.022860458
ENSMMUG00000003633	solute carrier family 4 member 11 [Source:VGNC Symbol;Acc:VGNC:77721]	-	0.546341471	0.005318858	0.024529241
ENSMMUG00000016114	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:VGNC Symbol;Acc:VGNC:71279]	-	0.551288613	0.008821675	0.036419665
ENSMMUG000000031160	menin 1 [Source:NCBI gene;Acc:106995582]	-	0.557750266	0.007688504	0.032685249
ENSMMUG00000020188	chromosome 15 C9orf131 homolog [Source:VGNC Symbol;Acc:VGNC:70451]	-	0.562268197	0.010641687	0.042012171
ENSMMUG000000059612		-	0.56668008	0.003986957	0.019342006
ENSMMUG00000013128	coiled-coil domain containing 30 [Source:VGNC Symbol;Acc:VGNC:70866]	-	0.567833435	0.007034308	0.030566648
ENSMMUG00000018922	cell division cycle 25B [Source:VGNC Symbol;Acc:VGNC:70795]	-	0.568768607	0.008287801	0.034638019
ENSMMUG00000012667	annexin A1 [Source:VGNC Symbol;Acc:VGNC:69944]	-	0.575315733	0.003431782	0.017132023
ENSMMUG000000054437		-	0.577505851	0.009232097	0.037615525
ENSMMUG00000005323	phosphoribosyl pyrophosphate synthetase associated protein 2 [Source:VGNC Symbol;Acc:VGNC:76430]	-	0.580038935	0.01120761	0.043485689
ENSMMUG00000010393	cadherin 3 [Source:VGNC Symbol;Acc:VGNC:70971]	-	0.583960508	0.009005888	0.036943266
ENSMMUG00000004522	DNA primase subunit 1 [Source:NCBI gene;Acc:710253]	-	0.584730339	0.006670654	0.029303812
ENSMMUG00000016742	CTD small phosphatase like 2 [Source:VGNC Symbol;Acc:VGNC:71593]	-	0.584864363	0.005362417	0.024709088
ENSMMUG000000060764		-	0.584919672	0.008353933	0.034847193
ENSMMUG00000011594	von Willebrand factor A domain containing 8 [Source:VGNC Symbol;Acc:VGNC:79773]	-	0.59491971	0.001781022	0.010096186
ENSMMUG00000000307	RIO kinase 2 [Source:VGNC Symbol;Acc:VGNC:76774]	-	0.599486853	0.004076693	0.019689172
ENSMMUG00000007382	proteasomal ATPase associated factor 1 [Source:NCBI gene;Acc:718755]	-	0.600498954	0.01057514	0.041840938
ENSMMUG00000003508	actin related protein 10 [Source:VGNC Symbol;Acc:VGNC:69449]	-	0.601565335	0.003311966	0.016633533
ENSMMUG00000007135	WD repeat domain 20 [Source:VGNC Symbol;Acc:VGNC:79196]	-	0.603092236	0.008296578	0.03466133
ENSMMUG00000014431	adaptor related protein complex 3 subunit mu 2 [Source:VGNC Symbol;Acc:VGNC:69971]	-	0.603798903	0.009053162	0.037066605
ENSMMUG00000005220	synemin [Source:VGNC Symbol;Acc:VGNC:78201]	-	0.60772939	0.012587188	0.047627317
ENSMMUG00000022682	tripartite motif containing 68 [Source:NCBI gene;Acc:717644]	-	0.610790054	0.005930467	0.026646515
ENSMMUG00000015185	endoplasmic reticulum to nucleus signaling 1 [Source:VGNC Symbol;Acc:VGNC:72429]	-	0.618258453	0.007709684	0.032714065
ENSMMUG00000020072	matrilin 2 [Source:VGNC Symbol;Acc:VGNC:74665]	-	0.620688269	0.01132067	0.043814511
ENSMMUG00000011557	platelet derived growth factor receptor beta [Source:VGNC Symbol;Acc:VGNC:75929]	-	0.622597979	0.000266644	0.002070648
ENSMMUG000000060483		-	0.622894559	0.00763343	0.032559132
ENSMMUG00000021012	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	-	0.624201406	0.001148478	0.007025108
ENSMMUG000000057336		-	0.626088625	0.012695188	0.047918804

ENSMMUG00000061384	sodium voltage-gated channel beta subunit 2 [Source:NCBI gene;Acc:678698]	0.628611887	0.00818066	0.034267429
ENSMMUG00000017239	mediator complex subunit 12L [Source:VGNC Symbol;Acc:VGNC:74515]	0.631751509	0.008947836	0.036834508
ENSMMUG00000061481	inosine triphosphatase [Source:NCBI gene;Acc:717257]	0.633936347	0.002305002	0.012472572
ENSMMUG00000045160	ubiquitination factor E4A [Source:NCBI gene;Acc:699836]	0.636810196	0.012144816	0.046407335
ENSMMUG00000060015	axin 2 [Source:NCBI gene;Acc:718566]	0.640975193	0.01045852	0.041500788
ENSMMUG00000049375		0.644186255	0.005053051	0.023492918
ENSMMUG0000006068	transmembrane protein 100 [Source:VGNC Symbol;Acc:VGNC:79521]	0.653645531	0.005193347	0.024042534
ENSMMUG0000008772	VPS54 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:79159]	0.654577735	0.009472777	0.038405163
ENSMMUG00000022070	sialic acid binding Ig like lectin 1 [Source:VGNC Symbol;Acc:VGNC:77220]	0.655255099	0.009565791	0.038713876
ENSMMUG00000050178		0.65574295	0.013256936	0.049778992
ENSMMUG00000052626	progesterone and adiponectin receptor family member 8 [Source:NCBI gene;Acc:708418]	0.660419296	0.009115364	0.037248863
ENSMMUG00000012117	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:VGNC Symbol;Acc:VGNC:73364]	0.663338669	0.000611325	0.004237035
ENSMMUG00000015114	toll like receptor adaptor molecule 2 [Source:NCBI gene;Acc:100426353]	0.664828631	0.000614022	0.004253008
ENSMMUG00000013730	WD repeat domain 17 [Source:NCBI gene;Acc:700546]	0.669437076	0.006434123	0.028432739
ENSMMUG00000013983	RUN domain containing 3A [Source:VGNC Symbol;Acc:VGNC:77032]	0.670481455	0.000659572	0.004505138
ENSMMUG00000050742	src kinase associated phosphoprotein 1 [Source:NCBI gene;Acc:697043]	0.671470574	0.001972253	0.010951007
ENSMMUG00000023361	GDNF family receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:72918]	0.674124966	0.007586751	0.032433809
ENSMMUG00000019632	ribosomal L1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77096]	0.677723092	0.003591256	0.017756309
ENSMMUG00000017544	mediator complex subunit 23 [Source:VGNC Symbol;Acc:VGNC:74562]	0.678354101	0.005747091	0.026065184
ENSMMUG00000008931	MAU2 sister chromatid cohesion factor [Source:NCBI gene;Acc:720347]	0.678851049	0.002861648	0.014776091
ENSMMUG00000012453	LETM1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74109]	0.679024561	0.010453458	0.041495901
ENSMMUG00000022404	apoptotic peptidase activating factor 1 [Source:VGNC Symbol;Acc:VGNC:69975]	0.679384449	0.003834902	0.01877248
ENSMMUG00000063195		0.679417793	0.007234513	0.031248597
ENSMMUG00000043846		0.681209401	0.001825883	0.010312719
ENSMMUG00000055016	keratin, type II cytoskeletal 6A [Source:NCBI gene;Acc:719283]	0.682816835	0.001936055	0.01077764
ENSMMUG00000019015	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73217]	0.684074779	0.009108232	0.037233767
ENSMMUG00000003669	methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]	0.685279654	0.003072738	0.015635026
ENSMMUG00000000382	sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]	0.687323946	0.00748542	0.032073807
ENSMMUG00000023406	HID1 domain containing [Source:VGNC Symbol;Acc:VGNC:73394]	0.688506448	0.002276114	0.012322412
ENSMMUG00000018531	peptidylprolyl isomerase like 2 [Source:VGNC Symbol;Acc:VGNC:76239]	0.688762928	0.006645322	0.029216223
ENSMMUG00000006287	DAP3 binding cell death enhancer 1 [Source:VGNC Symbol;Acc:VGNC:71806]	0.690530527	0.004183485	0.020088517
ENSMMUG00000006540	small nuclear RNA activating complex polypeptide 2 [Source:VGNC Symbol;Acc:VGNC:77666]	0.691492041	0.006896223	0.030123702
ENSMMUG00000065221		0.694194726	0.01096463	0.042818974
ENSMMUG00000052476	zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]	0.69452086	0.003063458	0.015609801
ENSMMUG00000018121	zinc finger FYVE-type containing 21 [Source:VGNC Symbol;Acc:VGNC:79282]	0.695581473	0.001248484	0.007555771
ENSMMUG00000005878	protein tyrosine phosphatase receptor type A [Source:VGNC Symbol;Acc:VGNC:76610]	0.696003944	0.009088983	0.03718314
ENSMMUG00000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	0.69865181	0.005773763	0.026137558
ENSMMUG00000018650	WNK lysine deficient protein kinase 1 [Source:VGNC Symbol;Acc:VGNC:78960]	0.703692873	0.010921152	0.042741633
ENSMMUG00000008130	ABR activator of RhoGEF and GTPase [Source:VGNC Symbol;Acc:VGNC:69589]	0.703955821	0.005872558	0.026474168
ENSMMUG00000049440	chromosome 16 C17orf113 homolog [Source:NCBI gene;Acc:106994045]	0.704121724	0.000572588	0.004017384
ENSMMUG00000032341	coiled-coil domain containing 160 [Source:VGNC Symbol;Acc:VGNC:70926]	0.70528814	0.002439279	0.013031027
ENSMMUG00000014210	metadherin [Source:VGNC Symbol;Acc:VGNC:74859]	0.706974187	0.007126593	0.030893308
ENSMMUG00000010432	zinc finger protein 592 [Source:VGNC Symbol;Acc:VGNC:79762]	0.708040312	0.000683431	0.004650509
ENSMMUG00000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]	0.708804973	0.000324096	0.002456915
ENSMMUG00000019115	eukaryotic translation initiation factor 1A domain containing [Source:VGNC Symbol;Acc:VGNC:72127]	0.709122673	0.006436727	0.028432739
ENSMMUG00000010734	cytochrome P450, family 4, subfamily F, polypeptide 8 [Source:NCBI gene;Acc:718335]	0.711302968	0.007005707	0.030491292
ENSMMUG00000000123	NHS like 1 [Source:VGNC Symbol;Acc:VGNC:75225]	0.712328487	0.002463547	0.013133664
ENSMMUG00000011459	3-phosphoinositide dependent protein kinase 1 [Source:NCBI gene;Acc:697523]	0.713242859	0.000783013	0.005178497
ENSMMUG00000008041	ankyrin repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:69693]	0.715850938	0.004057166	0.01961235
ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	0.715974804	0.001356199	0.008094601
ENSMMUG00000060717	C2 calcium dependent domain containing 4A [Source:NCBI gene;Acc:704354]	0.717623986	0.00510621	0.023710059

ENSMMUG00000054523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.717848206	0.005878711	0.026489296
ENSMMUG00000064973		0.718518655	0.004026716	0.019473845
ENSMMUG00000055454		0.718855193	0.000444829	0.003227589
ENSMMUG00000016410	acyl-CoA binding domain containing 5 [Source:VGNC Symbol;Acc:VGNC:69509]	0.719698127	0.00203696	0.011257274
ENSMMUG00000014013	ATP binding cassette subfamily D member 3 [Source:VGNC Symbol;Acc:VGNC:69579]	0.725038764	0.001718454	0.009818573
ENSMMUG00000064735	3-hydroxyanthranilate 3,4-dioxygenase [Source:NCBI gene;Acc:713101]	0.725887899	0.00269406	0.014139897
ENSMMUG00000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	0.726848122	0.001471425	0.008644225
ENSMMUG00000008134	DnaJ heat shock protein family (Hsp40) member A3 [Source:NCBI gene;Acc:708783]	0.72723538	0.005609493	0.025596728
ENSMMUG00000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]	0.729912618	0.000298095	0.002280557
ENSMMUG00000019556	transmembrane 9 superfamily member 2 [Source:VGNC Symbol;Acc:VGNC:78568]	0.735231794	0.00063319	0.004355141
ENSMMUG00000016652	cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]	0.735328958	0.006856528	0.030010814
ENSMMUG00000051874		0.737048279	0.001779079	0.010095906
ENSMMUG00000021426	solute carrier family 41 member 1 [Source:VGNC Symbol;Acc:VGNC:77515]	0.741783846	0.007695972	0.03268984
ENSMMUG00000008926	lysosomal protein transmembrane 4 beta [Source:VGNC Symbol;Acc:VGNC:84010]	0.742506055	0.001907056	0.010649038
ENSMMUG00000059105		0.743148562	0.011336646	0.043845013
ENSMMUG00000045544	neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]	0.743915995	0.000871505	0.005637057
ENSMMUG00000002540	dehydrogenase/reductase 7 [Source:VGNC Symbol;Acc:VGNC:71690]	0.74570973	0.000900532	0.005774434
ENSMMUG00000054789	family with sequence similarity 174 member A [Source:NCBI gene;Acc:702300]	0.746503644	0.004841607	0.022683806
ENSMMUG00000054573		0.74659833	0.010840957	0.042550757
ENSMMUG00000061189		0.750536663	0.00118639	0.007224376
ENSMMUG00000022895	DnaJ heat shock protein family (Hsp40) member B5 [Source:NCBI gene;Acc:699081]	0.750618875	0.000464108	0.003347325
ENSMMUG00000011134	transcription factor Dp-2 [Source:VGNC Symbol;Acc:VGNC:78324]	0.751720811	0.012067931	0.0461461
ENSMMUG00000014511	VPS39 subunit of HOPS complex [Source:VGNC Symbol;Acc:VGNC:79257]	0.752798511	0.002161775	0.01182156
ENSMMUG00000060157	zinc finger protein 330 [Source:NCBI gene;Acc:699364]	0.752908207	0.007190371	0.031135218
ENSMMUG00000005959	glycerol kinase [Source:NCBI gene;Acc:707531]	0.753850403	0.011601825	0.044742815
ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.756616697	0.001465743	0.008618553
ENSMMUG00000009249	ring finger protein, LIM domain interacting [Source:NCBI gene;Acc:703471]	0.75840958	0.000896619	0.005758831
ENSMMUG00000022019	cathepsin O [Source:VGNC Symbol;Acc:VGNC:71561]	0.758782683	0.001546902	0.009028873
ENSMMUG00000013483	prolyl endopeptidase [Source:VGNC Symbol;Acc:VGNC:76396]	0.759038315	0.012187033	0.046486665
ENSMMUG00000053656		0.761408961	0.013328266	0.049973678
ENSMMUG00000010203	protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]	0.761817437	0.011267105	0.043653988
ENSMMUG00000057187		0.768341602	0.012770344	0.048101925
ENSMMUG00000050983	peptidyl arginine deiminase 1 [Source:NCBI gene;Acc:700444]	0.768948463	0.011102091	0.043215578
ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]	0.769808346	0.010934701	0.042773076
ENSMMUG00000008967	VANGL planar cell polarity protein 1 [Source:VGNC Symbol;Acc:VGNC:78976]	0.77091607	0.000655801	0.00448787
ENSMMUG00000003141	Fli-1 proto-oncogene, ETS transcription factor [Source:VGNC Symbol;Acc:VGNC:72669]	0.771432068	0.007440582	0.031947612
ENSMMUG00000015284	NADH:ubiquinone oxidoreductase subunit B2 [Source:VGNC Symbol;Acc:VGNC:75156]	0.771619557	0.001142217	0.007010559
ENSMMUG00000015503	zinc finger FYVE-type containing 27 [Source:VGNC Symbol;Acc:VGNC:79623]	0.771965892	0.000996178	0.006265059
ENSMMUG00000013653	lysine demethylase 5A [Source:VGNC Symbol;Acc:VGNC:82169]	0.773212565	9.55E-05	0.00087202
ENSMMUG00000018909	fetuin B [Source:VGNC Symbol;Acc:VGNC:72638]	0.774242955	0.006968038	0.030351732
ENSMMUG00000064684		0.77433218	0.007484272	0.032073807
ENSMMUG00000057739		0.775931868	0.004410451	0.021019979
ENSMMUG00000006403	potassium voltage-gated channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:73971]	0.776554385	0.002621041	0.013843849
ENSMMUG00000057979	growth differentiation factor 5 [Source:NCBI gene;Acc:705432]	0.776732262	0.000267888	0.002078818
ENSMMUG00000005514	RNA polymerase III subunit A [Source:VGNC Symbol;Acc:VGNC:76138]	0.779404762	0.002723867	0.014234275
ENSMMUG00000053916		0.783154098	0.002665922	0.014039832
ENSMMUG00000045101		0.784999525	0.00063374	0.004356156
ENSMMUG00000019826	MYC associated zinc finger protein [Source:NCBI gene;Acc:708982]	0.787456296	0.005517734	0.025274254
ENSMMUG00000018139	dedicator of cytokinesis 10 [Source:VGNC Symbol;Acc:VGNC:71888]	0.788063301	3.81E-05	0.000395986
ENSMMUG00000000107	zinc finger protein 585A [Source:NCBI gene;Acc:100424957]	0.788421159	0.006282828	0.027928549
ENSMMUG00000065276		0.790023787	0.001766711	0.010041333

ENSMMUG00000019136	taxilin beta [Source:VGNC Symbol;Acc:VGNC:79325]	0.790375252	0.000442871	0.003215567
ENSMMUG00000000752	programmed cell death 6 [Source:NCBI gene;Acc:723043]	0.79079515	0.002630731	0.01388826
ENSMMUG00000017039	arginyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:76516]	0.791348154	0.006693335	0.029391528
ENSMMUG00000014432	plasminogen activator, tissue type [Source:VGNC Symbol;Acc:VGNC:76161]	0.793236765	0.00130092	0.007838078
ENSMMUG00000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]	0.793756197	0.005621861	0.025625618
ENSMMUG00000031106	ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]	0.794925928	0.007015387	0.030521161
ENSMMUG00000058241	leucine rich repeat and Ig domain containing 3 [Source:NCBI gene;Acc:721484]	0.795971754	0.001849372	0.010423646
ENSMMUG00000019277	WD repeat domain 33 [Source:VGNC Symbol;Acc:VGNC:79526]	0.796098025	0.010420413	0.041379889
ENSMMUG00000023381	dynein axonemal heavy chain 8 [Source:VGNC Symbol;Acc:VGNC:71943]	0.800388248	0.000214383	0.001729267
ENSMMUG00000015840	RAN binding protein 17 [Source:VGNC Symbol;Acc:VGNC:84485]	0.80251897	0.000367302	0.002730939
ENSMMUG00000015877	1,4-alpha-glucan branching enzyme 1 [Source:VGNC Symbol;Acc:VGNC:72894]	0.805080481	0.010899306	0.042695629
ENSMMUG00000049145	creatine kinase B [Source:NCBI gene;Acc:711167]	0.806484046	0.000450164	0.003253256
ENSMMUG00000056175		0.807924881	0.010605838	0.041947075
ENSMMUG00000018788	transmembrane protein 14B [Source:NCBI gene;Acc:698237]	0.808348677	0.000733913	0.004922895
ENSMMUG0000001083	glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]	0.808701145	0.00582321	0.026273566
ENSMMUG00000053063	forkhead box L2 [Source:NCBI gene;Acc:717906]	0.810577747	0.002322308	0.012553675
ENSMMUG00000060493		0.813152911	0.006330338	0.028082128
ENSMMUG00000016384	nucleoporin 205 [Source:VGNC Symbol;Acc:VGNC:75432]	0.813242881	0.012225306	0.046606918
ENSMMUG00000062177		0.813272802	0.000751757	0.005020825
ENSMMUG00000007811	protein kinase C and casein kinase substrate in neurons 1 [Source:VGNC Symbol;Acc:VGNC:75744]	0.814919329	0.003060674	0.015609801
ENSMMUG00000002371	myosin IC [Source:VGNC Symbol;Acc:VGNC:75112]	0.815978834	0.005577835	0.025494314
ENSMMUG00000054072		0.818840335	0.000376781	0.002784223
ENSMMUG00000010138	HECT and RLD domain containing E3 ubiquitin protein ligase 3 [Source:VGNC Symbol;Acc:VGNC:73365]	0.819146368	0.000930025	0.005926445
ENSMMUG00000057906		0.820130933	0.001143444	0.007014119
ENSMMUG00000052363	MYCN proto-oncogene, bHLH transcription factor [Source:NCBI gene;Acc:698699]	0.821288796	0.002037802	0.011257274
ENSMMUG00000008970	calsequestrin 2 [Source:VGNC Symbol;Acc:VGNC:70549]	0.822242495	0.002231929	0.012137796
ENSMMUG00000006763	cytochrome c oxidase subunit IV isoform 1 [Source:NCBI gene;Acc:693811]	0.824937213	0.004476338	0.021287166
ENSMMUG00000014110	adhesion G protein-coupled receptor D2 [Source:VGNC Symbol;Acc:VGNC:69462]	0.826106287	0.000445421	0.003227589
ENSMMUG00000022514	coiled-coil domain containing 186 [Source:VGNC Symbol;Acc:VGNC:70847]	0.826913879	0.002532725	0.013436343
ENSMMUG00000008787	BBX high mobility group box domain containing [Source:VGNC Symbol;Acc:VGNC:82110]	0.828523246	0.000386371	0.00283959
ENSMMUG00000010834	REL proto-oncogene, NF-kB subunit [Source:VGNC Symbol;Acc:VGNC:76892]	0.828569228	0.000249072	0.00196662
ENSMMUG00000004177	myosin VIIB [Source:NCBI gene;Acc:714563]	0.830140797	2.81E-05	0.000303996
ENSMMUG00000010898	tripartite motif containing 13 [Source:VGNC Symbol;Acc:VGNC:79972]	0.830476066	0.000952998	0.006033797
ENSMMUG00000019926	cytoplasmic polyadenylation element binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71450]	0.833708195	0.004172676	0.020063291
ENSMMUG00000020486	checkpoint kinase 2 [Source:VGNC Symbol;Acc:VGNC:70958]	0.835939349	0.000797498	0.005266591
ENSMMUG00000021924	NHS like 2 [Source:NCBI gene;Acc:702808]	0.836180141	2.85E-05	0.00030856
ENSMMUG00000009938	myosin XVIII A [Source:VGNC Symbol;Acc:VGNC:75058]	0.838109512	0.000726553	0.004891699
ENSMMUG00000020970	zinc finger protein 213 [Source:VGNC Symbol;Acc:VGNC:78872]	0.838150262	0.00036896	0.00273825
ENSMMUG00000031293	anoctamin-9 [Source:NCBI gene;Acc:100425888]	0.841220693	0.00049961	0.003574818
ENSMMUG00000010428	slit guidance ligand 1 [Source:VGNC Symbol;Acc:VGNC:77643]	0.841601028	1.75E-06	2.62E-05
ENSMMUG00000006727	vitamin D receptor [Source:VGNC Symbol;Acc:VGNC:78764]	0.843231087	0.000503235	0.00359127
ENSMMUG00000017817	membrane associated guanylate kinase, WW and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74400]	0.844086294	0.005305778	0.024489773
ENSMMUG00000016996	cytochrome P450, family 4, subfamily F, polypeptide 22 [Source:NCBI gene;Acc:718303]	0.844352843	0.010708369	0.042183184
ENSMMUG00000008520	ATPase phospholipid transporting 8A2 [Source:VGNC Symbol;Acc:VGNC:70062]	0.846097015	0.000656309	0.004488509
ENSMMUG00000004619	zinc finger BED-type containing 9 [Source:VGNC Symbol;Acc:VGNC:81608]	0.84641703	0.001967588	0.010930711
ENSMMUG00000023495	Ral GEF with PH domain and SH3 binding motif 1 [Source:VGNC Symbol;Acc:VGNC:76492]	0.849092479	0.002819952	0.014613077
ENSMMUG00000021812	ERCC excision repair 8, CSA ubiquitin ligase complex subunit [Source:VGNC Symbol;Acc:VGNC:72425]	0.849782293	3.68E-05	0.000385244
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	0.851748471	0.001474034	0.008654854
ENSMMUG00000051669		0.851916388	0.004657137	0.021963764
ENSMMUG00000019668	armadillo repeat containing 6 [Source:VGNC Symbol;Acc:VGNC:69899]	0.852201803	0.005690294	0.025856942
ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]	0.852237553	0.000985833	0.006209027

ENSMMUG00000016686	BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]	0.85315942	0.004687368	0.022048746
ENSMMUG00000019807	regulator of G protein signaling 14 [Source:VGNC Symbol;Acc:VGNC:76918]	0.853953425	0.002380811	0.012793318
ENSMMUG00000015449	phospholipase A2 group IVF [Source:VGNC Symbol;Acc:VGNC:76123]	0.854910406	0.000325168	0.002463316
ENSMMUG00000012933	myosin IE [Source:VGNC Symbol;Acc:VGNC:75114]	0.856753735	0.00067232	0.004586425
ENSMMUG00000001302	sucrase-isomaltase [Source:VGNC Symbol;Acc:VGNC:77213]	0.858695329	0.001048045	0.006524984
ENSMMUG00000011588	myosin IXB [Source:HGNC Symbol;Acc:HGNC:7609]	0.859772121	0.006085543	0.027201163
ENSMMUG00000010897	PNMA family member 3 [Source:VGNC Symbol;Acc:VGNC:76063]	0.860043371	0.003306916	0.016623585
ENSMMUG00000053199		0.860195256	0.006881	0.030081467
ENSMMUG00000017382	biliverdin reductase A [Source:VGNC Symbol;Acc:VGNC:70256]	0.861622741	0.000316458	0.002405745
ENSMMUG00000010798	cell cycle progression 1 [Source:VGNC Symbol;Acc:VGNC:70844]	0.861731404	0.008839307	0.036464664
ENSMMUG00000051072		0.861978873	0.000209053	0.001696379
ENSMMUG00000057560		0.865364103	0.000244065	0.001938384
ENSMMUG00000023025	synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]	0.865799889	0.002448135	0.013070797
ENSMMUG00000009430	transient receptor potential cation channel subfamily M member 1 [Source:VGNC Symbol;Acc:VGNC:79964]	0.866475171	0.004326121	0.020681763
ENSMMUG00000017505	tetratricopeptide repeat domain 3 [Source:VGNC Symbol;Acc:VGNC:81785]	0.867699762	5.30E-05	0.000528971
ENSMMUG00000018879	exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]	0.86928744	0.010354322	0.041162706
ENSMMUG00000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]	0.869944175	0.0027977	0.014515078
ENSMMUG00000001667	transmembrane protein 210 [Source:VGNC Symbol;Acc:VGNC:79945]	0.870368178	0.000891689	0.005736142
ENSMMUG00000008336	acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]	0.870637533	0.000150054	0.001283991
ENSMMUG00000006182	bromodomain adjacent to zinc finger domain 2B [Source:NCBI gene;Acc:702780]	0.871623025	3.83E-05	0.000397958
ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	0.8730128	0.000877452	0.005662524
ENSMMUG00000022744	muscleblind like splicing regulator 2 [Source:VGNC Symbol;Acc:VGNC:74519]	0.874202383	0.001742772	0.009931325
ENSMMUG00000037756	MAF bZIP transcription factor [Source:NCBI gene;Acc:106995090]	0.874389492	0.00014278	0.001233445
ENSMMUG00000020173	bactericidal permeability increasing protein [Source:VGNC Symbol;Acc:VGNC:70277]	0.875542633	0.002418919	0.012953111
ENSMMUG00000007097	testin LIM domain protein [Source:VGNC Symbol;Acc:VGNC:78383]	0.876092925	0.006471952	0.028558314
ENSMMUG00000022798	aspartyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:71708]	0.878634711	0.00699982	0.030477916
ENSMMUG00000015089	vanin 1 [Source:VGNC Symbol;Acc:VGNC:83967]	0.88026629	0.003319655	0.016664421
ENSMMUG00000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]	0.880280273	3.79E-05	0.000394896
ENSMMUG00000001776	G protein subunit alpha z [Source:VGNC Symbol;Acc:VGNC:73094]	0.882598062	0.003570053	0.017667606
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	0.885556982	0.001705435	0.009765183
ENSMMUG00000057506		0.887652245	0.004730212	0.022221328
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	0.887658194	0.000446071	0.003230138
ENSMMUG00000060459		0.891005955	8.80E-05	0.000810176
ENSMMUG00000000478	OTU deubiquitinase, ubiquitin aldehyde binding 1 [Source:NCBI gene;Acc:717989]	0.891470905	0.000326698	0.002471449
ENSMMUG00000021868	TNF receptor associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79019]	0.891582532	0.001550441	0.009039791
ENSMMUG00000064612	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.892091132	4.03E-05	0.000416751
ENSMMUG00000015303	ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]	0.892821201	0.008156652	0.03419544
ENSMMUG00000023318	transformation/transcription domain associated protein [Source:VGNC Symbol;Acc:VGNC:78657]	0.893218231	1.21E-06	1.88E-05
ENSMMUG00000008380	CDC42 binding protein kinase beta [Source:VGNC Symbol;Acc:VGNC:81369]	0.896720858	0.009346509	0.037992768
ENSMMUG00000022914	RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]	0.897018465	0.000809058	0.005318282
ENSMMUG00000017945	septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]	0.898532835	0.003235969	0.016327549
ENSMMUG00000057841	keratin 86 [Source:NCBI gene;Acc:697770]	0.901284177	0.010502631	0.041614853
ENSMMUG00000052680		0.902296483	0.000730841	0.004910741
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	0.902682897	0.00012311	0.001090848
ENSMMUG00000017946	rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]	0.903484461	0.000850934	0.005543092
ENSMMUG00000014288	eukaryotic translation initiation factor 3 subunit J [Source:VGNC Symbol;Acc:VGNC:72188]	0.905873162	0.008172542	0.034248802
ENSMMUG00000009682	R3H domain containing 4 [Source:VGNC Symbol;Acc:VGNC:76554]	0.905921775	0.012533474	0.047473818
ENSMMUG00000049374		0.906372346	0.006918651	0.030160865
ENSMMUG00000014489	DEAD-box helicase 20 [Source:NCBI gene;Acc:704731]	0.906878843	0.00024748	0.001959383
ENSMMUG00000057486		0.907546816	0.000123152	0.001090848
ENSMMUG00000004913	mitotic deacetylase associated SANT domain protein [Source:VGNC Symbol;Acc:VGNC:72073]	0.908557697	0.000475394	0.003417344

ENSMMUG0000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]	0.910317658	3.47E-05	0.000366084
ENSMMUG00000017985	catenin alpha 1 [Source:VGNC Symbol;Acc:VGNC:84291]	0.910328953	0.00088123	0.005678982
ENSMMUG00000005455	ring finger protein 213 [Source:VGNC Symbol;Acc:VGNC:76734]	0.910744285	0.000717085	0.004846031
ENSMMUG00000020583	FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]	0.914289578	0.006398564	0.028338368
ENSMMUG00000018344	myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]	0.915251206	0.005637258	0.025659
ENSMMUG00000010141	family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]	0.915380792	0.001179712	0.007191798
ENSMMUG00000056558		0.918539033	0.001381544	0.008214199
ENSMMUG00000000194	solute carrier family 27 member 1 [Source:VGNC Symbol;Acc:VGNC:77438]	0.920771867	0.005313905	0.024516835
ENSMMUG00000053458	ORMDL sphingolipid biosynthesis regulator 2 [Source:NCBI gene;Acc:710296]	0.921066987	0.001321933	0.007933793
ENSMMUG00000010367	myosin heavy chain 11 [Source:VGNC Symbol;Acc:VGNC:75097]	0.921365877	0.000510096	0.003633051
ENSMMUG00000000389	nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]	0.921419489	0.003473362	0.017307694
ENSMMUG00000006941	exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]	0.923404745	0.013266169	0.0497964
ENSMMUG00000055379		0.923603196	0.00013038	0.001145501
ENSMMUG00000052494		0.924273559	0.012490919	0.047345739
ENSMMUG00000004417	secretion associated Ras related GTPase 1B [Source:VGNC Symbol;Acc:VGNC:76970]	0.927405404	5.66E-05	0.000559431
ENSMMUG00000062995		0.927805001	0.0119021	0.045608578
ENSMMUG00000058544	nucleosome assembly protein 1 like 5 [Source:NCBI gene;Acc:703223]	0.92850597	0.000825049	0.005406993
ENSMMUG00000012538	ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]	0.928651892	0.003070546	0.015631215
ENSMMUG00000047621	transmembrane 4 L six family member 18 [Source:VGNC Symbol;Acc:VGNC:82713]	0.928723143	0.000125037	0.001103932
ENSMMUG00000055079		0.929100606	0.000136694	0.001191313
ENSMMUG00000013560	calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]	0.930150021	0.002562015	0.013585078
ENSMMUG00000009725	triadin [Source:HGNC Symbol;Acc:HGNC:12261]	0.930878425	0.000626564	0.00432329
ENSMMUG00000062248	follicular dendritic cell secreted protein [Source:NCBI gene;Acc:707784]	0.930971648	0.002397904	0.012872393
ENSMMUG00000015663	adaptor related protein complex 3 subunit delta 1 [Source:VGNC Symbol;Acc:VGNC:69969]	0.932151122	9.07E-05	0.000832842
ENSMMUG00000055907		0.934127784	0.000381352	0.002810331
ENSMMUG00000052424		0.934432372	0.003960484	0.019230804
ENSMMUG00000052242		0.935182613	0.006416758	0.028372545
ENSMMUG00000054123	vesicle transport through interaction with t-SNAREs 1A [Source:NCBI gene;Acc:696654]	0.935338414	0.008505667	0.035357594
ENSMMUG00000016715	p53-induced death domain protein 1 [Source:VGNC Symbol;Acc:VGNC:81498]	0.938079789	0.000568613	0.003994672
ENSMMUG00000058254		0.939445461	0.001260587	0.007624759
ENSMMUG00000005519	carboxypeptidase A3 [Source:VGNC Symbol;Acc:VGNC:71456]	0.939452775	0.007276867	0.031369001
ENSMMUG00000053488	small integral membrane protein 19 [Source:NCBI gene;Acc:705371]	0.940410931	0.001926346	0.010735684
ENSMMUG00000012940	tRNA phosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:79242]	0.941072065	0.008949313	0.036834508
ENSMMUG00000002930	G protein-coupled receptor 158 [Source:NCBI gene;Acc:707065]	0.941078398	0.006086552	0.027201163
ENSMMUG00000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]	0.941641096	0.003370837	0.016882235
ENSMMUG00000015001	LIM domain kinase 2 [Source:VGNC Symbol;Acc:VGNC:74270]	0.946165927	0.009122213	0.037262794
ENSMMUG00000002181	SFI1 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]	0.946925108	9.31E-05	0.000852764
ENSMMUG00000006139	3-hydroxy-3-methylglutaryl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:73484]	0.947627688	5.39E-05	0.00053753
ENSMMUG00000022246	PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]	0.947652896	0.013220929	0.049678225
ENSMMUG00000002982	FAST kinase domains 5 [Source:NCBI gene;Acc:100498658]	0.948774799	0.004523436	0.021473437
ENSMMUG00000044861		0.948977881	0.007232243	0.031248597
ENSMMUG00000008771	lysine demethylase 2A [Source:VGNC Symbol;Acc:VGNC:73824]	0.948984204	0.000151589	0.001293281
ENSMMUG00000052324	MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]	0.949093559	0.007202198	0.031171161
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	0.949188029	0.003277272	0.016512878
ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	0.949595019	0.007033003	0.030566648
ENSMMUG00000003744	solute carrier family 44 member 2 [Source:VGNC Symbol;Acc:VGNC:77498]	0.949642827	0.000646038	0.004429447
ENSMMUG00000053710		0.950104266	6.16E-05	0.000601032
ENSMMUG00000014571	protocadherin alpha-C2 [Source:NCBI gene;Acc:698874]	0.95201475	1.58E-05	0.000182849
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	0.953369845	1.76E-06	2.63E-05
ENSMMUG00000018255	nuclear factor of activated T cells 5 [Source:VGNC Symbol;Acc:VGNC:75325]	0.953691257	0.002574593	0.013638419
ENSMMUG00000017402	phosphoglucomutase 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75839]	0.95476521	0.002466564	0.013143278

ENSMMUG00000003297	coiled-coil domain containing 63 [Source:VGNC Symbol;Acc:VGNC:70879]	0.955676634	0.009223048	0.037615525
ENSMMUG00000005532	male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]	0.956321595	6.78E-05	0.000653535
ENSMMUG00000023078	zinc finger protein 639 [Source:VGNC Symbol;Acc:VGNC:82561]	0.957817283	0.002156854	0.0118018
ENSMMUG00000006230	NADPH oxidase 5 [Source:VGNC Symbol;Acc:VGNC:82198]	0.960765166	0.000242354	0.001927622
ENSMMUG00000004224	poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]	0.960822656	1.77E-05	0.000203174
ENSMMUG000000060780		0.961607544	5.90E-05	0.000582313
ENSMMUG000000055601		0.965966616	6.38E-06	8.22E-05
ENSMMUG00000064485	ubiquitin A-52 residue ribosomal protein fusion product 1 [Source:NCBI gene;Acc:720243]	0.967049297	0.006170389	0.027507746
ENSMMUG00000020588	protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]	0.968661509	2.86E-06	4.03E-05
ENSMMUG00000043955	three prime repair exonuclease 1 [Source:VGNC Symbol;Acc:VGNC:82708]	0.969716038	0.003504866	0.017432606
ENSMMUG00000011043	endoplasmic reticulum aminopeptidase 2 [Source:VGNC Symbol;Acc:VGNC:72141]	0.970110531	1.10E-05	0.000134584
ENSMMUG00000020694	RAB27A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81527]	0.971623129	0.005376141	0.02475127
ENSMMUG00000019357	elongator complex protein 1 [Source:VGNC Symbol;Acc:VGNC:72257]	0.971849974	0.001037656	0.006478922
ENSMMUG00000008770	UDP-glucose pyrophosphorylase 2 [Source:VGNC Symbol;Acc:VGNC:78712]	0.972630231	0.002727019	0.014243873
ENSMMUG00000049952		0.973726065	0.000292219	0.002240345
ENSMMUG00000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	0.974300271	6.61E-06	8.49E-05
ENSMMUG00000049403		0.975713461	0.002218879	0.012078954
ENSMMUG00000006141	ceramide transporter 1 [Source:VGNC Symbol;Acc:VGNC:71298]	0.977458845	0.000212423	0.0017173
ENSMMUG00000022348	surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]	0.97761846	0.00567287	0.025788586
ENSMMUG00000013520	pumilio RNA binding family member 1 [Source:VGNC Symbol;Acc:VGNC:76479]	0.97867727	1.33E-05	0.000158954
ENSMMUG00000049666		0.980031897	0.000629349	0.004339746
ENSMMUG00000061586	chromosome 4 C6orf52 homolog [Source:NCBI gene;Acc:702114]	0.980252369	0.010627673	0.041975485
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	0.980416045	5.22E-05	0.000522701
ENSMMUG00000020320	protein transport protein Sec16B [Source:NCBI gene;Acc:709635]	0.980476718	0.002956508	0.015164702
ENSMMUG00000022504	alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]	0.980979139	0.001708217	0.009775546
ENSMMUG00000010826	ral guanine nucleotide dissociation stimulator like 3 [Source:VGNC Symbol;Acc:VGNC:76869]	0.98128654	0.008770266	0.036221233
ENSMMUG00000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]	0.981913474	4.94E-06	6.53E-05
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]	0.982764882	0.000525347	0.003726973
ENSMMUG00000021082	potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]	0.985808031	0.000197315	0.00161683
ENSMMUG00000010875	TEA domain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:78301]	0.986566629	2.39E-05	0.00026389
ENSMMUG00000007511	glutamine amidotransferase like class 1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:82149]	0.98789974	0.006142166	0.027410509
ENSMMUG00000042077	DNA damage regulated autophagy modulator 1 [Source:NCBI gene;Acc:697427]	0.988048325	5.41E-05	0.000538185
ENSMMUG00000004014	interferon regulatory factor 7 [Source:VGNC Symbol;Acc:VGNC:73765]	0.991366936	0.011227712	0.043548085
ENSMMUG00000000695	transmembrane protein 245 [Source:VGNC Symbol;Acc:VGNC:78933]	0.9930845	0.005611763	0.025596728
ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	0.993726211	0.001872393	0.010515104
ENSMMUG00000001075	trafficking kinesin protein 1 [Source:VGNC Symbol;Acc:VGNC:79830]	0.99654119	0.006916585	0.030160865
ENSMMUG00000047880	alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:84439]	0.996774648	4.59E-05	0.000466854
ENSMMUG00000057231	T-box transcription factor 21 [Source:NCBI gene;Acc:694044]	1.000117163	0.006465163	0.028539982
ENSMMUG00000014425	protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]	1.002362867	0.009723844	0.039202977
ENSMMUG00000006295	matrix metalloproteinase 19 [Source:VGNC Symbol;Acc:VGNC:74896]	1.003272231	0.011019511	0.042971334
ENSMMUG00000014309	zinc finger protein 280A [Source:VGNC Symbol;Acc:VGNC:79152]	1.003566861	0.00984453	0.039571722
ENSMMUG00000004996	monooxygenase DBH like 1 [Source:VGNC Symbol;Acc:VGNC:74800]	1.005344315	0.003062166	0.015609801
ENSMMUG00000017949	ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]	1.005478852	1.21E-05	0.000146344
ENSMMUG00000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	1.006798558	3.03E-06	4.24E-05
ENSMMUG00000009176	calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]	1.008676415	0.001100052	0.006794108
ENSMMUG00000051450	phospholipase A2 receptor 1 [Source:NCBI gene;Acc:700191]	1.009071091	2.34E-06	3.35E-05
ENSMMUG00000001616	peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]	1.009078903	0.004142275	0.019952539
ENSMMUG00000037887	RBMX like 1 [Source:NCBI gene;Acc:100424767]	1.011900749	0.000317906	0.002415062
ENSMMUG00000032030	dolichyldiphosphatase 1 [Source:VGNC Symbol;Acc:VGNC:71947]	1.012511019	0.008769875	0.036221233
ENSMMUG00000029296	phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]	1.014919993	0.011662446	0.044928618
ENSMMUG00000000756	transmembrane protein adipocyte associated 1 [Source:VGNC Symbol;Acc:VGNC:79848]	1.01549717	0.008383134	0.034955539

ENSMMUG00000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	1.017192824	0.001780649	0.010096186
ENSMMUG00000014413	slingshot protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:78018]	1.019927988	0.000112678	0.001007133
ENSMMUG00000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	1.022339534	2.32E-06	3.33E-05
ENSMMUG00000057643		1.02377576	0.000210601	0.001705115
ENSMMUG00000015267	C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]	1.026355552	1.05E-05	0.000129494
ENSMMUG00000015306	calponin 2 [Source:NCBI gene;Acc:721164]	1.026425733	0.000240775	0.001919293
ENSMMUG00000009577	atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]	1.027239177	9.49E-05	0.000868075
ENSMMUG00000020956	parvin alpha [Source:VGNC Symbol;Acc:VGNC:75605]	1.027908113	0.010691575	0.042147683
ENSMMUG00000061749	PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]	1.028519034	2.82E-06	3.98E-05
ENSMMUG00000016758	transmembrane protein 159 [Source:VGNC Symbol;Acc:VGNC:79836]	1.029381114	0.001185816	0.007224376
ENSMMUG00000001715	zinc finger protein 627 [Source:VGNC Symbol;Acc:VGNC:79856]	1.029684896	0.000806392	0.005307194
ENSMMUG00000059196		1.030081806	3.47E-07	6.29E-06
ENSMMUG00000017188	proteasome 26S subunit, ATPase 4 [Source:VGNC Symbol;Acc:VGNC:76448]	1.031472659	0.006133758	0.027396596
ENSMMUG00000053257	Y RNA [Source:RFAM;Acc:RF00019]	1.031771519	0.000215657	0.001736962
ENSMMUG00000016255	telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]	1.031930859	0.001572128	0.009131833
ENSMMUG00000013107	tripartite motif containing 32 [Source:VGNC Symbol;Acc:VGNC:79032]	1.033613249	1.13E-06	1.77E-05
ENSMMUG00000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	1.03363971	3.57E-06	4.90E-05
ENSMMUG00000004847	xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]	1.033895449	1.82E-05	0.000207623
ENSMMUG00000060261		1.033918026	0.0086806	0.035960589
ENSMMUG00000062394	C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]	1.035212627	0.003101923	0.01576132
ENSMMUG00000054175		1.036026716	0.001118041	0.006881666
ENSMMUG00000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	1.038197528	4.79E-08	1.03E-06
ENSMMUG00000016104	chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]	1.039869008	0.000780242	0.005173328
ENSMMUG00000014409	ankyrin repeat domain 13B [Source:VGNC Symbol;Acc:VGNC:69708]	1.040338138	0.011898579	0.045608578
ENSMMUG00000049548		1.041727413	0.001016254	0.006367308
ENSMMUG00000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	1.043049154	0.000144831	0.001248171
ENSMMUG00000005548	N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]	1.044184709	0.000169062	0.001416431
ENSMMUG00000019172	spectrin beta, erythrocytic [Source:VGNC Symbol;Acc:VGNC:77870]	1.046200947	0.005790898	0.026182304
ENSMMUG00000022481	cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]	1.048157087	0.000555753	0.003922134
ENSMMUG00000051619	peptidyl arginine deiminase 3 [Source:NCBI gene;Acc:700560]	1.048397578	9.14E-05	0.000838015
ENSMMUG00000022920	TATA-box binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:83491]	1.048576387	0.01064856	0.042020521
ENSMMUG00000006293	SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]	1.048727365	0.000257233	0.002020602
ENSMMUG00000004024	cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]	1.051468475	0.007275298	0.031369001
ENSMMUG00000010840	zinc finger protein 507 [Source:VGNC Symbol;Acc:VGNC:79410]	1.051619898	0.011947971	0.045768165
ENSMMUG00000015054	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:69844]	1.05165868	0.000762008	0.005073654
ENSMMUG00000053376		1.051920504	0.000776718	0.005158914
ENSMMUG00000014897	ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]	1.055137324	0.012050035	0.046093935
ENSMMUG00000020172	KIAA1755 [Source:VGNC Symbol;Acc:VGNC:73942]	1.055477718	0.001364372	0.008134421
ENSMMUG00000020488	receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]	1.056208458	2.11E-06	3.06E-05
ENSMMUG00000023761	ectonucleoside triphosphate diphosphohydrolase 7 [Source:VGNC Symbol;Acc:VGNC:72071]	1.056281448	0.001684074	0.009668028
ENSMMUG00000064026	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.056679338	0.001916328	0.010695302
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	1.058774237	1.08E-05	0.00013272
ENSMMUG00000055239		1.058929012	0.00020871	0.001694866
ENSMMUG00000055122		1.058954938	0.000205371	0.001671509
ENSMMUG00000020258	E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]	1.059358979	0.004875313	0.022794243
ENSMMUG00000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	1.060879353	0.000113566	0.001014228
ENSMMUG00000018166	MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]	1.061289798	0.000354309	0.002649825
ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	1.063933371	0.006216303	0.027666891
ENSMMUG00000053989		1.066065723	0.00028255	0.002178646
ENSMMUG00000014537	bassoon presynaptic cytomatrix protein [Source:VGNC Symbol;Acc:VGNC:70284]	1.067143307	5.14E-05	0.000516301
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	1.06910357	2.03E-06	2.95E-05

ENSMMUG00000038349	crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]	1.070398417	1.64E-06	2.47E-05
ENSMMUG00000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]	1.070539855	0.000733445	0.004922808
ENSMMUG00000015908	RB binding protein 6, ubiquitin ligase [Source:VGNC Symbol;Acc:VGNC:76677]	1.071316768	3.25E-06	4.50E-05
ENSMMUG00000010043	epidermal growth factor [Source:VGNC Symbol;Acc:VGNC:72171]	1.071502141	0.012713381	0.047954059
ENSMMUG00000053937		1.072165433	1.37E-05	0.000162317
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	1.072827755	0.000380337	0.002804762
ENSMMUG00000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]	1.074498049	0.004235499	0.020302281
ENSMMUG00000061698		1.07564115	6.57E-05	0.000635961
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	1.076498029	0.00056967	0.003999507
ENSMMUG00000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	1.07676603	4.12E-05	0.000424815
ENSMMUG00000019945	fibroblast growth factor receptor 3 [Source:VGNC Symbol;Acc:VGNC:72653]	1.077227509	0.006561582	0.028906719
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.077321639	3.02E-05	0.000325229
ENSMMUG00000005729	GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]	1.077370754	0.002336655	0.012618637
ENSMMUG00000061995		1.077614007	0.000139039	0.001205931
ENSMMUG00000018274	FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]	1.079226779	1.80E-05	0.000205967
ENSMMUG00000038858		1.080117714	1.84E-06	2.71E-05
ENSMMUG00000056008		1.080963197	5.48E-07	9.41E-06
ENSMMUG00000010466	solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]	1.083056628	0.004025463	0.019473845
ENSMMUG00000064122		1.083648882	0.001853933	0.010443922
ENSMMUG00000002063	endoplasmic reticulum aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:72066]	1.085254857	0.000265745	0.00206597
ENSMMUG00000002381	lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]	1.08839263	3.17E-06	4.41E-05
ENSMMUG00000014981	homeobox containing 1 [Source:VGNC Symbol;Acc:VGNC:73443]	1.090711746	0.000996464	0.006265059
ENSMMUG00000041919	nuclear respiratory factor 1 [Source:VGNC Symbol;Acc:VGNC:81731]	1.091065747	2.24E-05	0.000248686
ENSMMUG00000014411	coronin 6 [Source:NCBI gene;Acc:711818]	1.094004725	0.001760208	0.01001488
ENSMMUG00000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	1.095069635	0.000422453	0.003085926
ENSMMUG00000006766	RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]	1.095879464	0.004083235	0.019711981
ENSMMUG00000062175	carboxypeptidase B1 [Source:NCBI gene;Acc:712639]	1.097400147	0.004554372	0.021573025
ENSMMUG00000021418	ATPase H ⁺ transporting V1 subunit D [Source:VGNC Symbol;Acc:VGNC:70060]	1.097612211	0.001307652	0.007865513
ENSMMUG00000019925	DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]	1.099081532	0.000862612	0.005592265
ENSMMUG00000005480	carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	1.100658104	5.57E-06	7.28E-05
ENSMMUG00000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]	1.102032989	2.06E-06	3.00E-05
ENSMMUG00000005906	heat shock transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:73533]	1.103680908	0.003094716	0.015732079
ENSMMUG00000059777		1.104743358	0.000497402	0.003561369
ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	1.105597687	2.58E-06	3.67E-05
ENSMMUG00000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	1.107227859	0.001057908	0.00657128
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	1.107335882	1.15E-05	0.00014004
ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	1.107925271	3.77E-06	5.14E-05
ENSMMUG00000058797		1.109357079	0.00024572	0.001950099
ENSMMUG00000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]	1.110363596	3.91E-06	5.30E-05
ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]	1.11143267	0.000117353	0.001045462
ENSMMUG00000044822	coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]	1.112292202	2.38E-05	0.00026366
ENSMMUG00000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]	1.112301568	0.000838332	0.005474169
ENSMMUG00000062048		1.112800658	6.40E-06	8.25E-05
ENSMMUG00000006435	HNF1 homeobox A [Source:NCBI gene;Acc:107001057]	1.11389514	0.009789677	0.039409725
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]	1.119270262	7.40E-05	0.000701123
ENSMMUG00000037449	CUGBP Elav-like family member 2 [Source:NCBI gene;Acc:714291]	1.119817287	0.003066281	0.01561684
ENSMMUG00000018478	interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]	1.12128431	0.011309449	0.043786728
ENSMMUG00000064074		1.123038261	0.001660811	0.009564895
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]	1.125291546	0.002131544	0.011679826
ENSMMUG00000018798	stromal cell derived factor 2 like 1 [Source:NCBI gene;Acc:697928]	1.125908437	0.000784333	0.005184062
ENSMMUG00000005793	ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]	1.127523832	0.007612478	0.032530955

ENSMMUG0000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	1.12764135	3.43E-07	6.23E-06
ENSMMUG00000065113		1.127856748	0.009960958	0.03995078
ENSMMUG00000020679	myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]	1.129702201	0.003219598	0.016267681
ENSMMUG00000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	1.129851878	4.38E-05	0.000447349
ENSMMUG00000018787	PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]	1.132169677	0.007287328	0.031401601
ENSMMUG00000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]	1.13278786	0.001562871	0.009082928
ENSMMUG00000001777	testis expressed metallothionein like protein [Source:VGNC Symbol;Acc:VGNC:79965]	1.133277076	0.00380732	0.018662761
ENSMMUG00000060572		1.133759204	0.007634874	0.032559132
ENSMMUG00000060754	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.134188866	3.65E-05	0.000382872
ENSMMUG00000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]	1.135420038	0.001079169	0.006684181
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]	1.135533928	3.70E-07	6.68E-06
ENSMMUG00000015797	disco interacting protein 2 homolog A [Source:VGNC Symbol;Acc:VGNC:71641]	1.136968655	3.46E-05	0.000365115
ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	1.137965956	1.38E-05	0.00016347
ENSMMUG00000006405	secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]	1.140776631	0.009353468	0.037996366
ENSMMUG00000013901	mitogen-activated protein kinase kinase kinase 3 [Source:VGNC Symbol;Acc:VGNC:81466]	1.140776947	0.009273934	0.037740243
ENSMMUG00000003585	ALG5 dolichyl-phosphate beta-glucosyltransferase [Source:VGNC Symbol;Acc:VGNC:69647]	1.146628047	0.001034807	0.006468588
ENSMMUG00000012466	BCL2 binding component 3 [Source:NCBI gene;Acc:717955]	1.147515824	0.002096352	0.011536382
ENSMMUG00000009487	zinc finger protein 205 [Source:VGNC Symbol;Acc:VGNC:78869]	1.149711995	1.09E-05	0.000133443
ENSMMUG00000015868	retinol dehydrogenase 11 [Source:NCBI gene;Acc:711195]	1.150519401	1.15E-05	0.00014004
ENSMMUG00000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	1.150823141	2.19E-05	0.00024372
ENSMMUG00000005270	ryanodine receptor 3 [Source:NCBI gene;Acc:694996]	1.152475586	6.32E-07	1.06E-05
ENSMMUG00000054768		1.153641059	0.000594629	0.004137232
ENSMMUG00000002995	tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]	1.153847631	3.06E-05	0.000329007
ENSMMUG00000011858	bone morphogenetic protein 5 [Source:VGNC Symbol;Acc:VGNC:70264]	1.156051794	0.001335817	0.007999393
ENSMMUG00000021938	nudE neurodevelopment protein 1 like 1 [Source:VGNC Symbol;Acc:VGNC:74982]	1.157302232	0.001050021	0.006529779
ENSMMUG00000013098	aldo-keto reductase family 1 member B10 [Source:NCBI gene;Acc:713150]	1.158110075	0.008183314	0.034267429
ENSMMUG00000050057		1.158234781	6.54E-07	1.09E-05
ENSMMUG00000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	1.160428533	0.000192347	0.001579756
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	1.16085088	0.012631114	0.047743496
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]	1.161539916	2.42E-06	3.46E-05
ENSMMUG00000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	1.162648207	1.00E-05	0.000124271
ENSMMUG00000004816	membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]	1.16394868	0.000956523	0.006049046
ENSMMUG00000052046		1.166133718	7.71E-07	1.26E-05
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	1.166302979	5.02E-08	1.08E-06
ENSMMUG00000057452		1.166839119	0.011098476	0.043215578
ENSMMUG00000005769	EF-hand calcium binding domain 6 [Source:VGNC Symbol;Acc:VGNC:72092]	1.171374982	0.009649484	0.038961187
ENSMMUG00000001943	GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]	1.17209144	0.006750223	0.029605331
ENSMMUG00000002953	MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]	1.172886243	0.001544984	0.009022539
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	1.173603224	7.09E-08	1.46E-06
ENSMMUG00000010062	shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]	1.173885256	1.47E-07	2.82E-06
ENSMMUG00000005483	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	1.175522242	0.000151856	0.001293281
ENSMMUG00000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	1.178975906	0.005625906	0.025628863
ENSMMUG00000009318	BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]	1.179427214	0.000423616	0.003092342
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	1.179658257	2.89E-06	4.07E-05
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	1.17987116	7.11E-05	0.000677402
ENSMMUG00000013048	junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]	1.181633197	0.004460452	0.021220937
ENSMMUG00000001105	purinergic receptor P2Y12 [Source:VGNC Symbol;Acc:VGNC:75642]	1.183580196	0.000355565	0.002654607
ENSMMUG00000006101	myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]	1.184476016	0.000442227	0.003213039
ENSMMUG00000002033	serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]	1.184826491	2.07E-05	0.000231496
ENSMMUG00000048207	syntaxin 4 [Source:NCBI gene;Acc:704880]	1.18605429	4.52E-06	6.06E-05
ENSMMUG00000011061	ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]	1.188035038	7.04E-07	1.16E-05

ENSMMUG0000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	1.188361659	0.009324876	0.037919062
ENSMMUG00000003139	Rho guanine nucleotide exchange factor 17 [Source:VGNC Symbol;Acc:VGNC:69880]	1.189950784	0.000461905	0.003335881
ENSMMUG000000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	1.190835655	6.32E-05	0.000615
ENSMMUG000000039520	chromosome 11 C12orf43 homolog [Source:NCBI gene;Acc:698821]	1.191734644	6.16E-06	7.99E-05
ENSMMUG00000012223	branched chain amino acid transaminase 1 [Source:VGNC Symbol;Acc:VGNC:70236]	1.192180558	1.82E-06	2.70E-05
ENSMMUG000000061526	synaptopodin 2 like [Source:NCBI gene;Acc:714736]	1.19343371	0.001410297	0.008353059
ENSMMUG000000020603	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]	1.194414448	2.42E-07	4.49E-06
ENSMMUG000000056906		1.194692279	4.52E-05	0.000461011
ENSMMUG00000005776	atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]	1.194741881	5.87E-06	7.65E-05
ENSMMUG00000003075	coiled-coil domain containing 9 [Source:VGNC Symbol;Acc:VGNC:70851]	1.194803259	0.000334751	0.002520051
ENSMMUG00000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	1.195296275	0.000367598	0.002731271
ENSMMUG000000049802	olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]	1.197094511	0.005912827	0.026611407
ENSMMUG000000062595		1.1987705	0.010260381	0.040894301
ENSMMUG00000005486	protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]	1.198838638	0.000343978	0.002580551
ENSMMUG000000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]	1.199099105	1.55E-06	2.35E-05
ENSMMUG000000009825	zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]	1.200875131	4.23E-05	0.000433865
ENSMMUG000000011206	solute carrier family 9 member B1 [Source:NCBI gene;Acc:710949]	1.202377908	0.000180302	0.001497865
ENSMMUG000000015288	adaptor related protein complex 3 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:69867]	1.204066113	0.007634884	0.032559132
ENSMMUG000000054017	potassium voltage-gated channel subfamily A member 2 [Source:NCBI gene;Acc:702126]	1.20452222	0.005562224	0.025435026
ENSMMUG000000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	1.204950374	1.25E-09	3.87E-08
ENSMMUG000000000187	UV radiation resistance associated [Source:VGNC Symbol;Acc:VGNC:78751]	1.206506912	0.002692537	0.014138754
ENSMMUG000000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	1.207665096	3.24E-07	5.90E-06
ENSMMUG000000000198	collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]	1.211027782	4.53E-06	6.07E-05
ENSMMUG000000020489	HscB mitochondrial iron-sulfur cluster cochaperone [Source:VGNC Symbol;Acc:VGNC:73454]	1.212932506	6.23E-06	8.06E-05
ENSMMUG000000001532	glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]	1.214533409	1.44E-07	2.77E-06
ENSMMUG000000015221	huntingtin interacting protein 1 related [Source:VGNC Symbol;Acc:VGNC:73412]	1.214595354	0.001650734	0.009522043
ENSMMUG000000008651	FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]	1.216240979	0.000126691	0.001117155
ENSMMUG000000042472	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.217868582	0.004847222	0.022692288
ENSMMUG000000003839	mitogen-activated protein kinase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74613]	1.217999623	1.07E-05	0.000130888
ENSMMUG000000007540	Rho related BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76772]	1.21882848	0.000857401	0.005571823
ENSMMUG000000048204	ephrin B3 [Source:NCBI gene;Acc:716257]	1.218884296	3.03E-05	0.000325454
ENSMMUG000000015476	unc-13 homolog A [Source:NCBI gene;Acc:720000]	1.219576641	1.84E-05	0.000209238
ENSMMUG000000007760	centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]	1.222487854	4.65E-10	1.54E-08
ENSMMUG000000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]	1.222648593	1.75E-06	2.62E-05
ENSMMUG000000059608	fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]	1.223054034	0.001482504	0.008695161
ENSMMUG000000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]	1.223359128	6.94E-05	0.000664017
ENSMMUG000000020916	coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]	1.224010497	6.69E-06	8.56E-05
ENSMMUG000000063495		1.224719301	1.00E-05	0.00012454
ENSMMUG000000019095	TBC1 domain family member 24 [Source:NCBI gene;Acc:697106]	1.224737114	0.000592427	0.00413249
ENSMMUG000000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]	1.227847706	0.001559675	0.009069224
ENSMMUG000000015871	zinc finger FYVE-type containing 26 [Source:VGNC Symbol;Acc:VGNC:79283]	1.228097871	0.004672737	0.02200859
ENSMMUG000000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	1.228259477	0.000379904	0.002804762
ENSMMUG000000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	1.229209284	4.86E-05	0.00049152
ENSMMUG000000055290	netrin 1 [Source:NCBI gene;Acc:717645]	1.230384524	0.000643406	0.004414199
ENSMMUG000000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	1.230576761	2.34E-08	5.44E-07
ENSMMUG000000059671		1.23728761	2.02E-05	0.000226594
ENSMMUG000000062055	glyoxalase I [Source:NCBI gene;Acc:719518]	1.23781851	9.87E-08	1.98E-06
ENSMMUG000000052184	inka box actin regulator 2 [Source:NCBI gene;Acc:704844]	1.239382801	0.00348863	0.017375781
ENSMMUG000000003140	RELT TNF receptor [Source:VGNC Symbol;Acc:VGNC:76728]	1.240456204	1.55E-08	3.76E-07
ENSMMUG000000004843	sodium voltage-gated channel beta subunit 1 [Source:VGNC Symbol;Acc:VGNC:76983]	1.241121281	1.64E-06	2.47E-05
ENSMMUG000000048463	apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]	1.242561375	5.33E-06	6.98E-05

ENSMMUG00000019835	CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]	1.243786568	0.002788555	0.014481505
ENSMMUG00000004765	Sp2 transcription factor [Source:VGNC Symbol;Acc:VGNC:77845]	1.245550685	0.00146626	0.008618553
ENSMMUG00000013966	legumain [Source:VGNC Symbol;Acc:VGNC:74274]	1.245881777	4.12E-05	0.000425023
ENSMMUG00000015160	Rap guanine nucleotide exchange factor like 1 [Source:VGNC Symbol;Acc:VGNC:76501]	1.24588706	1.06E-05	0.000130483
ENSMMUG00000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.24647254	6.42E-05	0.000621758
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	1.249289799	1.74E-06	2.61E-05
ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	1.250567498	6.01E-05	0.000591515
ENSMMUG00000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	1.250890769	1.13E-05	0.000138045
ENSMMUG00000007544	trophinin associated protein [Source:VGNC Symbol;Acc:VGNC:78650]	1.252360843	0.003868547	0.01888795
ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	1.252676352	2.38E-07	4.43E-06
ENSMMUG00000003534	ring finger protein 157 [Source:VGNC Symbol;Acc:VGNC:76860]	1.255556986	1.41E-05	0.000166459
ENSMMUG00000022931	NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]	1.255829685	0.00012365	0.001094361
ENSMMUG00000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	1.256611574	6.07E-09	1.58E-07
ENSMMUG00000019703	RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]	1.256879917	3.04E-09	8.45E-08
ENSMMUG00000060484	heterogeneous nuclear ribonucleoprotein D [Source:NCBI gene;Acc:694867]	1.258846777	0.003733048	0.01835133
ENSMMUG00000007279	phosphatidylinositol glycan anchor biosynthesis class C [Source:VGNC Symbol;Acc:VGNC:75986]	1.259448012	0.000472303	0.003399638
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]	1.262124332	0.00085305	0.00554972
ENSMMUG00000011817	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	1.262846429	0.000302894	0.00231563
ENSMMUG00000060675		1.262904531	0.000276643	0.002140625
ENSMMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]	1.265175674	2.16E-06	3.13E-05
ENSMMUG00000016376	mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]	1.265439387	0.002471418	0.013156202
ENSMMUG000000041729		1.266523678	0.006054267	0.027090405
ENSMMUG00000009324	replication factor C subunit 1 [Source:NCBI gene;Acc:698987]	1.266773464	8.05E-05	0.000751682
ENSMMUG00000015861	cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]	1.266987597	7.95E-05	0.00074527
ENSMMUG00000049543		1.268529164	0.010411994	0.041361618
ENSMMUG00000050047	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.269711851	0.001147619	0.007023818
ENSMMUG00000010536	discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]	1.269860028	1.77E-05	0.000203174
ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	1.270826468	1.96E-08	4.63E-07
ENSMMUG00000011951	KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]	1.272291899	0.000328518	0.002483483
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	1.272397507	4.86E-07	8.57E-06
ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]	1.274206675	0.000286569	0.002203269
ENSMMUG00000055345	Y RNA [Source:RFAM;Acc:RF00019]	1.274256305	0.000189769	0.001560944
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	1.277395906	7.67E-06	9.76E-05
ENSMMUG00000016085	KxDL motif containing 1 [Source:NCBI gene;Acc:720235]	1.278595683	1.93E-05	0.000217792
ENSMMUG00000016056	potassium voltage-gated channel subfamily A member 10 [Source:VGNC Symbol;Acc:VGNC:73963]	1.280074703	1.97E-05	0.000221584
ENSMMUG00000011767	carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]	1.280503001	0.000985263	0.006209027
ENSMMUG00000017102	coiled-coil domain containing 62 [Source:NCBI gene;Acc:707179]	1.280542249	0.004563156	0.02159575
ENSMMUG00000013099	pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]	1.28214666	0.012312575	0.046754789
ENSMMUG00000049862		1.282488536	0.006886053	0.030091413
ENSMMUG00000014407	magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]	1.283067536	1.88E-06	2.77E-05
ENSMMUG00000056971	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.283119491	0.010025122	0.040119004
ENSMMUG00000015925	G protein-coupled receptor kinase 2 [Source:VGNC Symbol;Acc:VGNC:73253]	1.286879435	0.000180773	0.001500615
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	1.289430187	9.13E-06	0.000114478
ENSMMUG00000064005		1.290096736	0.006008914	0.026943114
ENSMMUG00000056343		1.291346736	0.000799454	0.005269947
ENSMMUG00000057473		1.291567327	0.000951575	0.00602831
ENSMMUG00000056024		1.292918743	3.20E-06	4.44E-05
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	1.293408162	7.38E-07	1.21E-05
ENSMMUG00000055048		1.297441206	6.92E-05	0.000663483
ENSMMUG00000016454	4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]	1.298130873	1.17E-06	1.82E-05
ENSMMUG00000042378	pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]	1.302699739	1.06E-06	1.66E-05

ENSMMUG00000051677		1.303094526	1.62E-05	0.00018704
ENSMMUG00000005086	homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]	1.303207552	0.000159388	0.001352113
ENSMMUG00000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	1.30414182	7.10E-05	0.000676709
ENSMMUG00000022933	DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]	1.30470938	5.52E-07	9.45E-06
ENSMMUG00000057160		1.308603219	0.005233463	0.0242179
ENSMMUG00000049514	solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]	1.309546784	0.000386027	0.002838987
ENSMMUG00000015108	SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]	1.310658914	2.64E-05	0.000289351
ENSMMUG00000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	1.311351648	0.000112252	0.001004147
ENSMMUG00000018029	amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]	1.312133262	9.03E-07	1.44E-05
ENSMMUG00000014010	RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]	1.317869641	1.54E-09	4.66E-08
ENSMMUG00000051323	caspase-14-like [Source:NCBI gene;Acc:702430]	1.318496299	0.000201887	0.001648455
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	1.320879953	7.47E-06	9.51E-05
ENSMMUG00000061194		1.321891337	4.16E-06	5.60E-05
ENSMMUG00000031024	lactate dehydrogenase A [Source:NCBI gene;Acc:694309]	1.323813558	0.000845658	0.005515357
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	1.325616289	6.10E-07	1.03E-05
ENSMMUG00000010363	ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]	1.326539723	0.012370968	0.046940348
ENSMMUG00000055893		1.326739581	0.003936936	0.019133613
ENSMMUG00000060063		1.32912334	0.000171114	0.001431416
ENSMMUG00000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	1.329484385	8.55E-05	0.000789812
ENSMMUG00000050686		1.329828998	0.002741283	0.014310406
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	1.331614115	6.88E-09	1.77E-07
ENSMMUG00000056009		1.333136106	0.000619169	0.004283181
ENSMMUG00000007195	tRNA splicing endonuclease subunit 2 [Source:VGNC Symbol;Acc:VGNC:82707]	1.334280056	0.001129445	0.006936099
ENSMMUG00000065269	Rho family GTPase 2 [Source:NCBI gene;Acc:712559]	1.334330098	0.000176602	0.001471635
ENSMMUG00000023719	thymopoietin [Source:VGNC Symbol;Acc:VGNC:78574]	1.334574726	0.003569761	0.017667606
ENSMMUG00000062316	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.335630744	2.44E-05	0.000269184
ENSMMUG00000017619	lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]	1.338936401	6.09E-12	3.10E-10
ENSMMUG00000021486	secernin 2 [Source:NCBI gene;Acc:694571]	1.343946463	0.008565012	0.035576983
ENSMMUG00000016001	vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]	1.346298714	9.60E-05	0.000875436
ENSMMUG00000053378		1.349158194	0.000549765	0.00388747
ENSMMUG00000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	1.349484762	2.76E-08	6.23E-07
ENSMMUG00000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]	1.350382014	3.18E-05	0.000339911
ENSMMUG00000064204	kelch like family member 26 [Source:NCBI gene;Acc:719583]	1.351027581	0.010381916	0.041257262
ENSMMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]	1.351239358	7.29E-07	1.20E-05
ENSMMUG00000001538	GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]	1.352406103	2.81E-10	9.79E-09
ENSMMUG00000000757	ring finger protein 114 [Source:VGNC Symbol;Acc:VGNC:76725]	1.352888932	0.012490069	0.047345739
ENSMMUG00000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	1.353202617	1.86E-07	3.53E-06
ENSMMUG00000053072		1.354454314	3.30E-05	0.000350362
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	1.354873203	1.53E-10	5.85E-09
ENSMMUG00000002304	keratin 73 [Source:VGNC Symbol;Acc:VGNC:74148]	1.354970098	0.012761663	0.048101925
ENSMMUG00000057682		1.356840746	3.55E-08	7.79E-07
ENSMMUG00000002324		1.358134823	6.62E-06	8.49E-05
ENSMMUG00000006692	signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]	1.35891507	0.000861434	0.005587975
ENSMMUG00000054377		1.360504294	6.83E-10	2.20E-08
ENSMMUG00000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	1.366984475	0.000366609	0.002727661
ENSMMUG00000006291	protocadherin 12 [Source:VGNC Symbol;Acc:VGNC:75776]	1.368001039	0.000566878	0.003987652
ENSMMUG00000053200	ubiquitin conjugating enzyme E2 R2 [Source:NCBI gene;Acc:701507]	1.369909589	0.002426545	0.012987531
ENSMMUG00000014986	testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]	1.370958114	0.000232454	0.001861175
ENSMMUG00000001635	zinc finger protein 703 [Source:VGNC Symbol;Acc:VGNC:79552]	1.373193025	0.001705504	0.009765183
ENSMMUG00000058237		1.373761161	0.000288747	0.002218436
ENSMMUG00000016655	R3H domain and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:76551]	1.374505947	5.46E-07	9.38E-06

ENSMMUG00000053489		1.3768845	0.000482893	0.003468949
ENSMMUG00000013044	selectin P [Source:VGNC Symbol;Acc:VGNC:77157]	1.376954844	2.21E-05	0.000246165
ENSMMUG00000014674	golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]	1.378186192	0.000313253	0.002384727
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]	1.379873215	1.09E-09	3.40E-08
ENSMMUG00000057134	keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]	1.38485944	0.007493226	0.032084632
ENSMMUG00000003067	endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]	1.385078787	1.90E-08	4.50E-07
ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	1.388773724	1.89E-06	2.77E-05
ENSMMUG00000052607		1.389301084	2.17E-09	6.24E-08
ENSMMUG00000054184	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.391285482	2.20E-07	4.11E-06
ENSMMUG00000060901		1.392165919	3.55E-06	4.87E-05
ENSMMUG00000000582	NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]	1.397634184	0.000187218	0.001544656
ENSMMUG00000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]	1.399200173	3.65E-06	5.00E-05
ENSMMUG00000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	1.399646001	2.40E-07	4.46E-06
ENSMMUG00000057703		1.403107166	0.00131346	0.007888497
ENSMMUG00000060760		1.403285757	0.006438245	0.028432739
ENSMMUG00000020744	metastasis associated 1 family member 3 [Source:VGNC Symbol;Acc:VGNC:74814]	1.405409465	7.68E-05	0.000723423
ENSMMUG00000053254	adenylate kinase 4 [Source:NCBI gene;Acc:698560]	1.405533139	1.81E-07	3.45E-06
ENSMMUG00000013696	myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]	1.40601938	0.000258904	0.00202799
ENSMMUG00000054784		1.406438159	0.000219225	0.001764384
ENSMMUG00000001880	DExD/H-box helicase 60 [Source:VGNC Symbol;Acc:VGNC:71711]	1.406919713	8.77E-09	2.21E-07
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	1.407802664	3.26E-09	8.96E-08
ENSMMUG00000050661		1.408560751	7.05E-05	0.000673133
ENSMMUG00000045203		1.409293564	0.009566791	0.038713876
ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]	1.4101892	2.48E-06	3.55E-05
ENSMMUG00000005939	serpin family I member 1 [Source:VGNC Symbol;Acc:VGNC:77366]	1.412585949	0.004912786	0.022929862
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	1.413474755	2.80E-09	7.88E-08
ENSMMUG00000011774	integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	1.414217379	7.53E-12	3.73E-10
ENSMMUG00000011328	cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]	1.41521172	0.002871623	0.014799379
ENSMMUG00000063947	oxoeicosanoid receptor 1 [Source:NCBI gene;Acc:713039]	1.418051884	0.000564765	0.003975375
ENSMMUG00000051807		1.421645628	1.12E-05	0.000136365
ENSMMUG00000003827	albumin [Source:VGNC Symbol;Acc:VGNC:69782]	1.421772851	0.000691989	0.004702831
ENSMMUG00000042951	signal recognition particle 19 [Source:NCBI gene;Acc:693829]	1.422539428	8.80E-05	0.000810176
ENSMMUG00000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.424385472	1.85E-06	2.73E-05
ENSMMUG00000055751		1.424876007	0.008433494	0.0350845
ENSMMUG00000038998	purinergic receptor P2Y13 [Source:VGNC Symbol;Acc:VGNC:83950]	1.424914994	0.000133581	0.001169831
ENSMMUG00000006086	pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]	1.425631848	0.002820967	0.014613077
ENSMMUG00000055126		1.42570181	0.003554815	0.017616335
ENSMMUG00000049234	ninjurin 2 [Source:NCBI gene;Acc:706368]	1.427219058	0.010005195	0.040068864
ENSMMUG00000014866	hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]	1.428932677	0.008131577	0.034143166
ENSMMUG00000001409	coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]	1.430462674	1.97E-05	0.000221584
ENSMMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]	1.430735148	5.00E-10	1.64E-08
ENSMMUG00000020346	carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]	1.431237272	4.16E-08	9.04E-07
ENSMMUG00000060812	autophagy related 12 [Source:NCBI gene;Acc:696765]	1.433738971	7.32E-05	0.000695025
ENSMMUG00000060712		1.434976099	0.000111445	0.000998579
ENSMMUG00000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	1.435722483	3.93E-11	1.66E-09
ENSMMUG00000064920		1.435921626	1.84E-06	2.71E-05
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	1.439278629	4.54E-05	0.000462191
ENSMMUG00000051816	keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]	1.439345599	0.001975627	0.010964123
ENSMMUG00000006470	complement C1r subcomponent [Source:NCBI gene;Acc:722133]	1.441150832	1.25E-07	2.45E-06
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	1.441366348	8.23E-08	1.67E-06
ENSMMUG00000056646		1.442700764	0.00010545	0.000953538

ENSMMUG00000007366		1.443103616	5.57E-05	0.00055106
ENSMMUG00000042510	coagulation factor V [Source:NCBI gene;Acc:704695]	1.447498376	3.17E-11	1.38E-09
ENSMMUG00000005845	REST corepressor 1 [Source:VGNC Symbol;Acc:VGNC:76752]	1.447721814	0.000409025	0.002991873
ENSMMUG00000019837	ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]	1.447732888	6.35E-05	0.000616581
ENSMMUG00000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	1.449456893	1.52E-06	2.31E-05
ENSMMUG00000017280	TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]	1.45012096	0.001656264	0.009543783
ENSMMUG00000013766	prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]	1.450831716	1.29E-08	3.16E-07
ENSMMUG00000060770		1.452355607	0.00281729	0.014609717
ENSMMUG00000057791		1.455141696	0.003407549	0.017042466
ENSMMUG00000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.456861795	2.80E-05	0.000303855
ENSMMUG00000058106	otoconin 90 [Source:NCBI gene;Acc:100429699]	1.458166326	3.36E-08	7.43E-07
ENSMMUG00000019438	utrophin [Source:VGNC Symbol;Acc:VGNC:78749]	1.458326567	0.000596379	0.004144046
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	1.460632308	2.52E-07	4.65E-06
ENSMMUG00000056950		1.463249076	6.04E-07	1.02E-05
ENSMMUG00000056093	shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]	1.463718542	0.000166343	0.001397979
ENSMMUG00000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]	1.463730239	7.81E-05	0.000734831
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]	1.464360008	1.12E-07	2.21E-06
ENSMMUG00000059292		1.464776356	1.11E-09	3.45E-08
ENSMMUG00000057850		1.465180025	0.001213924	0.007366305
ENSMMUG00000049297		1.46637624	3.38E-06	4.66E-05
ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]	1.471736541	4.05E-07	7.29E-06
ENSMMUG00000016922	serine/threonine kinase 32B [Source:VGNC Symbol;Acc:VGNC:78114]	1.472081374	0.005407179	0.024867388
ENSMMUG00000022407	serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]	1.473679854	0.000104153	0.000943381
ENSMMUG00000038067		1.474689488	0.001896797	0.010597215
ENSMMUG00000029638	chromosome 7 C15orf65 homolog [Source:VGNC Symbol;Acc:VGNC:70689]	1.476900494	0.004679491	0.022027766
ENSMMUG00000008566	zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]	1.478132881	1.57E-06	2.37E-05
ENSMMUG00000052238		1.480552655	8.94E-06	0.000112441
ENSMMUG00000058187		1.48098976	6.70E-09	1.72E-07
ENSMMUG00000004523	DNA polymerase delta 4, accessory subunit [Source:NCBI gene;Acc:712632]	1.481326333	0.001491724	0.008740576
ENSMMUG00000051420	homeobox B5 [Source:NCBI gene;Acc:696732]	1.485193843	0.000253735	0.001997612
ENSMMUG00000022406	ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]	1.486037596	7.71E-07	1.26E-05
ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	1.488664039	1.26E-06	1.95E-05
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	1.48969611	1.67E-07	3.19E-06
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	1.49086962	9.38E-10	2.97E-08
ENSMMUG00000015924	BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]	1.495139642	2.03E-05	0.000227171
ENSMMUG00000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	1.495629013	8.11E-07	1.32E-05
ENSMMUG00000055324	homeobox B7 [Source:NCBI gene;Acc:697089]	1.495866056	4.89E-05	0.000493943
ENSMMUG00000008184	methyltransferase like 24 [Source:VGNC Symbol;Acc:VGNC:74552]	1.49687534	0.001300058	0.007837243
ENSMMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]	1.497895534	3.89E-06	5.29E-05
ENSMMUG00000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	1.498953171	3.51E-08	7.72E-07
ENSMMUG00000056729	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.500632449	3.30E-06	4.56E-05
ENSMMUG00000018623	exportin 6 [Source:NCBI gene;Acc:704332]	1.502599239	0.009809631	0.039475383
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	1.505156071	4.49E-10	1.49E-08
ENSMMUG00000059175		1.508250282	0.000574195	0.004026058
ENSMMUG00000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	1.509033302	6.20E-09	1.62E-07
ENSMMUG00000011527	TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]	1.510071497	0.000187806	0.001547152
ENSMMUG00000007401	arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]	1.511956823	0.000185752	0.001536067
ENSMMUG00000013646	unk zinc finger [Source:VGNC Symbol;Acc:VGNC:79803]	1.513572255	7.38E-05	0.000699474
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]	1.513997753	7.17E-06	9.18E-05
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]	1.514191906	9.61E-05	0.000875436
ENSMMUG00000005423	caseinolytic mitochondrial matrix peptidase chaperone subunit B [Source:VGNC Symbol;Acc:VGNC:71375]	1.518046248	0.001403644	0.008327314

ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	1.518278555	1.91E-08	4.54E-07
ENSMMUG00000001879	annexin A10 [Source:VGNC Symbol;Acc:VGNC:69945]	1.518537463	1.24E-07	2.44E-06
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]	1.519259782	3.76E-08	8.23E-07
ENSMMUG00000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	1.519456768	2.95E-08	6.60E-07
ENSMMUG00000003499	solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]	1.522250206	0.000190123	0.001562673
ENSMMUG00000020020	Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]	1.522671636	0.005542574	0.025355873
ENSMMUG00000017260	G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]	1.522853397	1.18E-06	1.83E-05
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	1.523068636	3.99E-09	1.08E-07
ENSMMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]	1.523344022	1.20E-06	1.86E-05
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	1.524142082	2.99E-09	8.33E-08
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	1.524976386	1.85E-08	4.42E-07
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	1.525319711	8.21E-10	2.62E-08
ENSMMUG00000060795		1.527408646	0.003633152	0.01791252
ENSMMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	1.529252618	2.26E-08	5.28E-07
ENSMMUG00000015115	terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]	1.529266059	1.49E-07	2.87E-06
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]	1.529770843	3.21E-09	8.89E-08
ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]	1.530676993	1.39E-05	0.000164205
ENSMMUG00000052828		1.533504089	0.000850139	0.005541251
ENSMMUG00000063735		1.53364574	0.010818374	0.042492911
ENSMMUG00000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	1.53425501	5.57E-08	1.18E-06
ENSMMUG00000059181		1.534567313	0.0077526	0.032857557
ENSMMUG00000015922	formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]	1.536007275	4.20E-07	7.53E-06
ENSMMUG00000022345		1.537922305	0.00149186	0.008740576
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	1.538684343	1.82E-08	4.38E-07
ENSMMUG00000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	1.539437977	1.77E-06	2.64E-05
ENSMMUG00000055256	family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]	1.541395642	6.65E-05	0.000642905
ENSMMUG00000049998	tachykinin receptor 3 [Source:NCBI gene;Acc:653013]	1.541930205	0.00670254	0.029420021
ENSMMUG00000023717	MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]	1.54224187	5.23E-07	9.11E-06
ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	1.542299196	2.06E-08	4.83E-07
ENSMMUG00000005236	zinc finger protein 709 [Source:NCBI gene;Acc:717515]	1.542566605	0.004652188	0.02194998
ENSMMUG00000008529	chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]	1.543057473	0.001742506	0.009931325
ENSMMUG00000062397		1.545290276	0.000147569	0.00126624
ENSMMUG00000021044	afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]	1.546217078	9.24E-12	4.49E-10
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	1.546280389	3.24E-09	8.95E-08
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	1.547567887	6.05E-08	1.27E-06
ENSMMUG00000060533		1.547855114	9.45E-10	2.98E-08
ENSMMUG00000050119		1.548022403	9.87E-10	3.10E-08
ENSMMUG00000008006	RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]	1.549952189	1.58E-11	7.27E-10
ENSMMUG00000045187	CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]	1.55239835	5.18E-11	2.13E-09
ENSMMUG00000002382	serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]	1.552601551	2.59E-06	3.68E-05
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	1.552758992	0.000158046	0.001342834
ENSMMUG00000006375	coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]	1.554448439	0.003906016	0.019034579
ENSMMUG00000055352		1.557168364	4.35E-11	1.81E-09
ENSMMUG00000013283	cadherin related family member 2 [Source:NCBI gene;Acc:697249]	1.557339718	0.009707368	0.039151122
ENSMMUG00000003142	family with sequence similarity 168 member A [Source:VGNC Symbol;Acc:VGNC:72398]	1.558827364	0.003354307	0.016822782
ENSMMUG00000060605		1.559170147	8.50E-07	1.37E-05
ENSMMUG00000048190	U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]	1.560151758	0.00542233	0.024910983
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	1.563270197	2.54E-07	4.69E-06
ENSMMUG00000007208	G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]	1.563473684	0.00747173	0.032068642
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	1.564169424	2.72E-08	6.16E-07
ENSMMUG00000054398		1.566206689	1.72E-05	0.000198367

ENSMMUG0000007546	complement C1q like 4 [Source:VGNC Symbol;Acc:VGNC:70450]	1.567613844	0.007478469	0.032073807
ENSMMUG0000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]	1.568937116	0.000162071	0.001367375
ENSMMUG00000056555		1.570256359	2.69E-05	0.000294509
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	1.570270108	9.18E-08	1.85E-06
ENSMMUG0000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	1.572494774	7.22E-12	3.59E-10
ENSMMUG00000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.574474884	4.05E-06	5.48E-05
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	1.574667043	0.011325848	0.043818895
ENSMMUG00000061250	ABRA C-terminal like [Source:NCBI gene;Acc:708266]	1.574721004	0.002380535	0.012793318
ENSMMUG00000063322		1.575122287	6.83E-08	1.41E-06
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	1.577194155	1.14E-14	1.02E-12
ENSMMUG00000064242		1.57865529	0.000151801	0.001293281
ENSMMUG00000015572	GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]	1.580166587	1.01E-07	2.01E-06
ENSMMUG00000019527	DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]	1.582023246	0.007413581	0.0318443
ENSMMUG00000003199	CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]	1.583302448	0.013119137	0.04932996
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.584915375	6.24E-08	1.30E-06
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	1.585065487	0.011043811	0.043050596
ENSMMUG00000061785		1.585542782	2.57E-12	1.39E-10
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	1.587128417	5.34E-08	1.14E-06
ENSMMUG00000061031		1.59162911	0.003813274	0.018675044
ENSMMUG00000049305	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.593905567	0.001593436	0.009235791
ENSMMUG00000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	1.596878752	4.31E-07	7.70E-06
ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	1.597368273	8.48E-12	4.16E-10
ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	1.597757484	1.56E-05	0.000181094
ENSMMUG00000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	1.598417914	4.00E-08	8.71E-07
ENSMMUG00000061165		1.598474445	1.66E-09	4.99E-08
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	1.604278459	1.56E-05	0.000181094
ENSMMUG00000005530	synaptotagmin 1 [Source:VGNC Symbol;Acc:VGNC:78074]	1.605721535	0.000107386	0.000967814
ENSMMUG00000017627	B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	1.606312345	1.56E-11	7.23E-10
ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.606398312	1.52E-13	1.04E-11
ENSMMUG00000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	1.607877784	3.03E-08	6.73E-07
ENSMMUG00000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]	1.610020421	2.14E-12	1.17E-10
ENSMMUG00000051240		1.612240518	0.001532433	0.008963739
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	1.614944711	0.001518533	0.008887232
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]	1.616217152	1.79E-07	3.42E-06
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	1.618892968	4.33E-07	7.74E-06
ENSMMUG00000015611	proteasome 26S subunit, ATPase 3 [Source:NCBI gene;Acc:713356]	1.620782515	0.008717125	0.036042983
ENSMMUG00000007970	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]	1.621487567	8.51E-05	0.000787026
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	1.625103086	2.73E-09	7.69E-08
ENSMMUG00000028771	Yip1 interacting factor homolog B, membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:79852]	1.626508969	0.000434116	0.003162594
ENSMMUG00000011528	F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]	1.626719111	4.34E-05	0.000444534
ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	1.626878551	0.000492093	0.003530362
ENSMMUG00000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	1.628002202	6.56E-07	1.09E-05
ENSMMUG00000039266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.629296853	0.00923287	0.037615525
ENSMMUG00000062628		1.629309713	0.000687147	0.00467286
ENSMMUG00000058557		1.632547739	0.000304623	0.002324576
ENSMMUG00000045959		1.637022402	7.85E-05	0.000736861
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.637865477	2.40E-09	6.86E-08
ENSMMUG00000044496	H2A histone family, member X [Source:NCBI gene;Acc:703073]	1.638098702	3.94E-05	0.000408117
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	1.639534425	4.96E-06	6.55E-05
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	1.639827488	0.003442478	0.017177507
ENSMMUG00000048066	trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]	1.640043678	2.01E-05	0.000225887

ENSMMUG00000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	1.640887566	1.83E-10	6.90E-09
ENSMMUG00000055441		1.641652718	0.010946683	0.042779731
ENSMMUG00000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]	1.642282662	5.24E-07	9.11E-06
ENSMMUG0000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	1.64295803	5.54E-10	1.81E-08
ENSMMUG00000044048	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.643227303	0.000446618	0.003231938
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]	1.643308052	5.16E-06	6.78E-05
ENSMMUG00000061079	golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]	1.643721663	1.34E-06	2.04E-05
ENSMMUG00000004910	dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]	1.643732	0.000272813	0.002114011
ENSMMUG00000018910	histidine rich glycoprotein [Source:VGNC Symbol;Acc:VGNC:73521]	1.645623392	0.002571572	0.013629082
ENSMMUG00000010949	SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]	1.645973714	2.78E-08	6.26E-07
ENSMMUG00000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	1.646654962	1.32E-09	4.05E-08
ENSMMUG00000051408	myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]	1.649244268	4.72E-08	1.02E-06
ENSMMUG00000060502		1.649619498	6.29E-05	0.000612626
ENSMMUG00000001534	calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]	1.653203945	4.18E-09	1.13E-07
ENSMMUG00000010173	presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]	1.654305386	6.22E-05	0.000606342
ENSMMUG00000002278	AT-rich interaction domain 3A [Source:VGNC Symbol;Acc:VGNC:69930]	1.655873686	0.00055429	0.00391691
ENSMMUG00000019764	dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]	1.658037296	0.001115489	0.006869867
ENSMMUG00000005685	pseudouridine synthase 10 [Source:VGNC Symbol;Acc:VGNC:76547]	1.658985872	0.002089933	0.01151004
ENSMMUG00000047219		1.660492974	3.84E-06	5.23E-05
ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	1.662115114	8.98E-09	2.26E-07
ENSMMUG00000052073		1.666004199	5.29E-07	9.18E-06
ENSMMUG00000057934		1.666067187	0.007637105	0.032559132
ENSMMUG00000057283		1.666172409	0.000993921	0.006256332
ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	1.667076304	6.00E-15	5.65E-13
ENSMMUG00000019126	purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]	1.667144704	0.010034839	0.040143061
ENSMMUG00000003355	lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]	1.672939416	2.13E-09	6.16E-08
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.673005489	4.70E-09	1.25E-07
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	1.673118445	6.81E-05	0.000654715
ENSMMUG00000014291	SPG11 vesicle trafficking associated, spatacin [Source:VGNC Symbol;Acc:VGNC:77856]	1.675431311	1.04E-06	1.64E-05
ENSMMUG00000037243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.676120388	0.001411141	0.00835349
ENSMMUG00000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]	1.676444787	6.45E-09	1.67E-07
ENSMMUG00000048076	TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650]	1.681379934	1.22E-08	3.00E-07
ENSMMUG00000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	1.681569282	2.31E-15	2.39E-13
ENSMMUG00000008090	ribosomal protein L27 [Source:NCBI gene;Acc:712352]	1.684160662	0.010002395	0.040068864
ENSMMUG00000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]	1.684892422	2.54E-08	5.86E-07
ENSMMUG00000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	1.686358708	2.79E-10	9.75E-09
ENSMMUG00000059472	filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]	1.687236914	0.000133981	0.001172391
ENSMMUG00000062996		1.688511589	0.010772252	0.042388598
ENSMMUG00000018485	methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]	1.691689517	0.010277976	0.040934308
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]	1.693596742	2.18E-09	6.25E-08
ENSMMUG00000010869	nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]	1.69406462	4.45E-07	7.90E-06
ENSMMUG00000063639		1.694228673	0.000169471	0.00141876
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	1.695584151	8.38E-16	9.26E-14
ENSMMUG00000006689	nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]	1.697031422	0.000320051	0.002429655
ENSMMUG00000019667	TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]	1.697819705	0.000761574	0.005073654
ENSMMUG00000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	1.702087092	7.59E-10	2.43E-08
ENSMMUG00000058137	zinc finger protein 816 [Source:NCBI gene;Acc:720058]	1.703930557	0.000900839	0.005774434
ENSMMUG00000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	1.704380046	1.01E-12	6.00E-11
ENSMMUG00000020515	adhesion G protein-coupled receptor G2 [Source:VGNC Symbol;Acc:VGNC:69802]	1.70499342	0.001867686	0.010494107
ENSMMUG00000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	1.705190473	5.69E-07	9.71E-06
ENSMMUG00000018471	serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]	1.706173616	0.007700957	0.03268984

ENSMMUG00000059491		1.707842716	5.66E-07	9.68E-06
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]	1.708119064	5.06E-09	1.33E-07
ENSMMUG00000014864	VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]	1.709830943	1.27E-08	3.11E-07
ENSMMUG00000058800		1.709974122	6.34E-07	1.06E-05
ENSMMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]	1.710202779	8.26E-07	1.33E-05
ENSMMUG00000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	1.712752403	4.67E-09	1.24E-07
ENSMMUG00000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]	1.713397128	2.77E-10	9.74E-09
ENSMMUG00000012697	AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]	1.717442085	1.74E-05	0.00019981
ENSMMUG00000056186		1.719411199	0.009249622	0.037655452
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	1.719436618	6.52E-11	2.60E-09
ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	1.721131152	2.56E-08	5.90E-07
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	1.721189284	3.78E-10	1.27E-08
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	1.722298425	2.90E-08	6.48E-07
ENSMMUG00000017864	oxysterol binding protein like 8 [Source:VGNC Symbol;Acc:VGNC:75630]	1.723154708	0.007734563	0.032793943
ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.723477139	1.01E-05	0.000125541
ENSMMUG00000053083	C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]	1.726861226	0.010216813	0.040750639
ENSMMUG00000052348		1.728014918	0.000221448	0.001780955
ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	1.728498503	5.12E-14	3.94E-12
ENSMMUG00000008383	major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]	1.729914216	2.03E-06	2.96E-05
ENSMMUG00000005982	coiled-coil domain containing 84 [Source:NCBI gene;Acc:707400]	1.731351705	0.000213458	0.001723094
ENSMMUG00000014720	NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]	1.731784527	0.004662707	0.021970904
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	1.732374768	7.17E-10	2.30E-08
ENSMMUG00000015477	lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]	1.733830177	5.44E-07	9.38E-06
ENSMMUG00000023477		1.735840031	2.89E-13	1.88E-11
ENSMMUG00000006997	thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]	1.736702624	1.37E-15	1.48E-13
ENSMMUG00000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	1.737512297	6.39E-11	2.56E-09
ENSMMUG00000004498	protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]	1.740581588	0.001210327	0.007353602
ENSMMUG00000017266	UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]	1.741916812	0.000408297	0.002988569
ENSMMUG00000058042	heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]	1.742503939	2.35E-06	3.37E-05
ENSMMUG00000010886	strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]	1.742898507	9.92E-05	0.000902409
ENSMMUG00000012529	pleckstrin homology domain containing A8 [Source:VGNC Symbol;Acc:VGNC:81741]	1.745460902	0.000100604	0.000914301
ENSMMUG00000016946	trafficking protein particle complex 4 [Source:VGNC Symbol;Acc:VGNC:79211]	1.746202259	0.002408668	0.012904599
ENSMMUG00000009684	kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]	1.746256179	3.88E-06	5.28E-05
ENSMMUG00000014123	alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]	1.7511698	0.000247759	0.001959383
ENSMMUG00000004175	transient receptor potential cation channel subfamily M member 2 [Source:VGNC Symbol;Acc:VGNC:78655]	1.751590643	0.000130004	0.001143124
ENSMMUG00000006233	adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]	1.752955992	0.000826473	0.005410025
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	1.752988574	3.06E-16	3.52E-14
ENSMMUG00000003105	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]	1.753604814	4.58E-09	1.23E-07
ENSMMUG00000010513	ribulose-5-phosphate-3-epimerase [Source:NCBI gene;Acc:711322]	1.754291165	0.000331638	0.002505322
ENSMMUG00000019988	homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]	1.756387218	1.26E-06	1.94E-05
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	1.757386115	4.16E-06	5.60E-05
ENSMMUG00000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	1.757606038	1.95E-09	5.70E-08
ENSMMUG00000022741	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]	1.757620022	2.12E-10	7.70E-09
ENSMMUG00000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]	1.759355147	8.50E-07	1.37E-05
ENSMMUG00000058621		1.762031828	3.11E-07	5.69E-06
ENSMMUG00000032180	RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]	1.765504173	0.000506968	0.003613145
ENSMMUG00000015583	nucleosome assembly protein 1 like 1 [Source:NCBI gene;Acc:719047]	1.768542327	0.003279265	0.016515239
ENSMMUG00000039292		1.768622489	1.43E-05	0.000168413
ENSMMUG00000005511	SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]	1.770838281	6.65E-05	0.000642905
ENSMMUG00000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	1.770904452	1.88E-08	4.48E-07
ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	1.77125255	1.59E-12	8.85E-11

ENSMMUG00000020186	solute carrier family 20 member 2 [Source:VGNC Symbol;Acc:VGNC:77416]	1.773718998	0.002942268	0.015098811
ENSMMUG00000065025		1.776538725	3.17E-10	1.09E-08
ENSMMUG00000004774	maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]	1.776827452	0.007073388	0.030699526
ENSMMUG00000051170		1.778389185	0.000203177	0.001657394
ENSMMUG00000008518	phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]	1.780036508	4.97E-07	8.73E-06
ENSMMUG00000055209		1.78036649	2.70E-08	6.14E-07
ENSMMUG00000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	1.782361411	2.79E-10	9.75E-09
ENSMMUG00000010515	KAT8 regulatory NSL complex subunit 1 like [Source:VGNC Symbol;Acc:VGNC:73913]	1.784802306	0.002336617	0.012618637
ENSMMUG00000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	1.785001238	4.58E-12	2.37E-10
ENSMMUG00000056840		1.785804487	7.56E-08	1.54E-06
ENSMMUG00000012841	kallikrein 3 [Source:NCBI gene;Acc:719444]	1.789012574	0.000910271	0.005814251
ENSMMUG00000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	1.79125012	0.000180252	0.001497865
ENSMMUG00000003976	glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]	1.791829441	2.56E-09	7.27E-08
ENSMMUG00000051329		1.794355615	0.000521685	0.003710715
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	1.795201007	3.96E-07	7.13E-06
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	1.798456967	7.87E-06	9.95E-05
ENSMMUG00000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]	1.799762816	1.09E-09	3.40E-08
ENSMMUG00000059897	myosin light chain 9 [Source:NCBI gene;Acc:709784]	1.80030677	0.000559097	0.003943163
ENSMMUG00000053790		1.800780471	5.26E-08	1.12E-06
ENSMMUG00000050868		1.801342579	0.000358842	0.002673548
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	1.801546257	1.45E-09	4.39E-08
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	1.803103979	3.73E-13	2.35E-11
ENSMMUG00000023300	FERM domain containing 8 [Source:NCBI gene;Acc:716379]	1.807832621	0.000430582	0.003141073
ENSMMUG00000014615	lactate dehydrogenase C [Source:VGNC Symbol;Acc:VGNC:74247]	1.808900621	0.00023972	0.00191418
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	1.808947742	6.13E-08	1.29E-06
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	1.81005754	1.20E-07	2.36E-06
ENSMMUG00000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.811821874	4.64E-09	1.24E-07
ENSMMUG00000065208		1.811881211	0.000857977	0.005572218
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	1.812017775	6.26E-07	1.05E-05
ENSMMUG00000058592		1.812525841	5.95E-06	7.74E-05
ENSMMUG00000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]	1.815547432	1.34E-09	4.10E-08
ENSMMUG00000064391		1.818403694	8.58E-07	1.38E-05
ENSMMUG00000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	1.818465068	1.90E-07	3.59E-06
ENSMMUG00000030389		1.819477316	0.008223491	0.034395784
ENSMMUG00000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	1.822848647	3.86E-05	0.000400623
ENSMMUG00000054512		1.823240298	0.001368808	0.008156379
ENSMMUG00000035748	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.828657077	0.003226156	0.016289041
ENSMMUG00000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.830658747	5.15E-06	6.77E-05
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	1.832164722	1.54E-11	7.15E-10
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	1.834313135	1.92E-11	8.67E-10
ENSMMUG00000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	1.83488495	9.92E-11	3.85E-09
ENSMMUG00000020185	voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]	1.841076673	0.010793113	0.042439852
ENSMMUG00000049935		1.841791529	3.10E-06	4.32E-05
ENSMMUG00000013160	DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]	1.842523352	0.004516157	0.021457085
ENSMMUG00000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]	1.842933122	5.65E-08	1.20E-06
ENSMMUG00000010586	mesoderm posterior bHLH transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:74618]	1.845919041	0.005251918	0.024292924
ENSMMUG00000018549	zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]	1.846904173	0.01065156	0.042020521
ENSMMUG00000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	1.855156241	3.55E-17	5.04E-15
ENSMMUG00000061098		1.855423098	3.59E-13	2.30E-11
ENSMMUG00000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	1.857170835	0.001551761	0.009042615
ENSMMUG00000014277	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	1.859079742	1.05E-13	7.50E-12

ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	1.860984637	0.000284609	0.002191309
ENSMMUG00000054686		1.861558292	6.32E-06	8.16E-05
ENSMMUG00000003797	ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]	1.863994874	0.0114806	0.044306855
ENSMMUG00000038363	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]	1.864087065	6.24E-09	1.62E-07
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	1.86454913	2.51E-05	0.000276102
ENSMMUG00000048744		1.865387784	0.004948181	0.023075179
ENSMMUG00000019830	Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]	1.865986711	7.96E-05	0.000745671
ENSMMUG00000003591	pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]	1.866229085	1.15E-06	1.80E-05
ENSMMUG00000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	1.868027925	2.02E-05	0.000226594
ENSMMUG00000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	1.868499965	1.09E-14	9.86E-13
ENSMMUG00000064229		1.869044904	0.001042065	0.00649522
ENSMMUG00000062755		1.870600456	0.001811354	0.010237856
ENSMMUG00000008081	ATP binding cassette subfamily G member 8 [Source:VGNC Symbol;Acc:VGNC:69392]	1.871246164	8.02E-05	0.000750501
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	1.87763764	6.75E-13	4.09E-11
ENSMMUG00000052168		1.87956043	6.14E-07	1.04E-05
ENSMMUG00000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	1.88022407	3.53E-11	1.52E-09
ENSMMUG00000017822	periplakin [Source:VGNC Symbol;Acc:VGNC:76240]	1.881068739	0.003456168	0.017229946
ENSMMUG00000001745	oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]	1.883096895	9.57E-07	1.52E-05
ENSMMUG00000061021		1.883976109	0.000185745	0.001536067
ENSMMUG00000058566		1.884385478	4.75E-14	3.70E-12
ENSMMUG00000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	1.887927216	6.03E-13	3.69E-11
ENSMMUG00000017660		1.88820256	1.33E-09	4.07E-08
ENSMMUG00000040741	thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]	1.888622229	1.33E-05	0.000158407
ENSMMUG00000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.888957772	1.35E-09	4.12E-08
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	1.890086323	3.90E-05	0.000403813
ENSMMUG00000006836	chloride channel accessory 1 [Source:NCBI gene;Acc:574295]	1.891066449	0.000104883	0.000949206
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	1.891892743	1.31E-07	2.57E-06
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]	1.893338205	3.23E-07	5.89E-06
ENSMMUG00000064321		1.8935699	0.000147567	0.00126624
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	1.897040003	0.005119553	0.023761834
ENSMMUG00000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.897982804	3.56E-05	0.000374969
ENSMMUG00000008758	zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]	1.898669112	0.003060094	0.015609801
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	1.901311559	6.52E-12	3.30E-10
ENSMMUG00000000803	signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]	1.901486521	6.30E-07	1.06E-05
ENSMMUG00000048283	mml-mir-3145 [Source:miRBase;Acc:MI0020897]	1.902108329	0.011839071	0.045463543
ENSMMUG00000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	1.903906952	1.35E-12	7.72E-11
ENSMMUG00000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	1.904043316	2.70E-09	7.63E-08
ENSMMUG00000055914		1.904084737	1.77E-06	2.63E-05
ENSMMUG00000010678	oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]	1.906430335	0.005622828	0.025625618
ENSMMUG00000019354	actin like 7B [Source:VGNC Symbol;Acc:VGNC:69421]	1.907223397	0.011983393	0.04587141
ENSMMUG00000052780		1.91115126	1.60E-10	6.10E-09
ENSMMUG00000021436	latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]	1.911253808	6.01E-05	0.000591515
ENSMMUG00000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	1.913756729	4.48E-06	6.02E-05
ENSMMUG00000057499		1.916158758	0.002969106	0.015222115
ENSMMUG00000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	1.916380672	6.53E-06	8.39E-05
ENSMMUG00000056945		1.916801284	4.52E-10	1.50E-08
ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	1.918580291	6.08E-05	0.000595376
ENSMMUG00000051363		1.919451096	3.52E-05	0.000371401
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]	1.919813819	4.35E-05	0.000444534
ENSMMUG00000062522		1.921009535	3.05E-06	4.26E-05
ENSMMUG00000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	1.923577344	2.48E-11	1.10E-09

ENSMMUG00000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.932092276	5.78E-11	2.35E-09
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	1.93322515	5.32E-07	9.22E-06
ENSMMUG00000022702	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase [Source:VGNC Symbol;Acc:VGNC:72882]	1.93484868	1.81E-05	0.000206153
ENSMMUG00000054942		1.942983481	0.000148023	0.001268621
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	1.944208032	1.89E-11	8.58E-10
ENSMMUG00000004477	solute carrier family 19 member 1 [Source:VGNC Symbol;Acc:VGNC:77408]	1.945977234	1.34E-07	2.60E-06
ENSMMUG00000050028		1.95185033	8.88E-07	1.42E-05
ENSMMUG00000052851	solute carrier family 7 member 5 [Source:NCBI gene;Acc:695886]	1.952078413	2.45E-08	5.67E-07
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.952955393	1.56E-18	2.87E-16
ENSMMUG00000009508	TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]	1.953074184	0.002385625	0.012812827
ENSMMUG00000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]	1.955823904	5.99E-10	1.95E-08
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	1.955897051	1.56E-08	3.77E-07
ENSMMUG00000055963		1.956500537	1.83E-05	0.000208383
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	1.958452622	2.13E-14	1.79E-12
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	1.959424228	2.25E-10	8.13E-09
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	1.95976262	1.81E-14	1.54E-12
ENSMMUG00000016929	proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]	1.960743161	0.002723317	0.014234275
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	1.960853121	1.58E-11	7.26E-10
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	1.962192424	4.05E-08	8.82E-07
ENSMMUG00000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]	1.962253373	5.45E-05	0.000541809
ENSMMUG00000005415	olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]	1.963616093	0.010164432	0.040578029
ENSMMUG00000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	1.964167072	2.34E-12	1.28E-10
ENSMMUG00000011650	dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]	1.964460158	1.99E-06	2.91E-05
ENSMMUG00000000566		1.969332264	0.011287208	0.043716239
ENSMMUG00000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	1.969749236	1.88E-05	0.000212529
ENSMMUG00000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	1.974405828	2.32E-16	2.80E-14
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	1.97751638	4.12E-11	1.73E-09
ENSMMUG00000003750	PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]	1.977638424	0.001807305	0.01022378
ENSMMUG00000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	1.978142102	1.08E-11	5.20E-10
ENSMMUG00000064463		1.978740853	0.003216638	0.01626031
ENSMMUG00000050132		1.978806533	5.26E-05	0.000526027
ENSMMUG00000056376		1.979101978	1.45E-05	0.000170789
ENSMMUG00000061951		1.980219461	0.000941363	0.005984463
ENSMMUG00000061151		1.98118113	0.000501836	0.00358601
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	1.982142692	1.46E-11	6.82E-10
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	1.984808299	7.06E-15	6.54E-13
ENSMMUG00000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.985176387	2.87E-13	1.87E-11
ENSMMUG00000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]	1.987024533	1.90E-10	7.09E-09
ENSMMUG00000008200	Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]	1.988321988	0.000887351	0.005715027
ENSMMUG00000065005	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.988460825	1.68E-05	0.000194341
ENSMMUG00000053013		1.989787559	1.40E-06	2.14E-05
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	1.989823393	7.38E-09	1.88E-07
ENSMMUG00000049494		1.989837689	0.000811332	0.005329991
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	1.990177764	2.46E-08	5.69E-07
ENSMMUG00000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	1.992092369	1.33E-14	1.15E-12
ENSMMUG00000055121	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.99312591	4.85E-08	1.04E-06
ENSMMUG00000020009	receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]	1.993775084	3.08E-06	4.30E-05
ENSMMUG00000049265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.99464315	0.001554714	0.009054957
ENSMMUG00000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]	1.996408811	2.07E-08	4.83E-07
ENSMMUG00000003421	ankyrin repeat domain 40 [Source:VGNC Symbol;Acc:VGNC:69725]	1.99646641	0.00796686	0.033620954

ENSMMUG0000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	1.999997829	1.22E-14	1.07E-12
ENSMMUG00000015926	2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]	2.000462085	1.84E-05	0.000208383
ENSMMUG00000036820	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	2.001006847	1.05E-05	0.000129494
ENSMMUG00000011209	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	2.004497496	2.51E-10	8.91E-09
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	2.006802882	3.73E-12	1.95E-10
ENSMMUG00000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	2.006891191	2.45E-09	6.97E-08
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	2.00796659	3.39E-09	9.29E-08
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]	2.008054639	1.06E-12	6.24E-11
ENSMMUG00000055906	angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]	2.00808185	0.00576292	0.026109607
ENSMMUG00000053516		2.008532886	0.000343932	0.002580551
ENSMMUG00000022109	CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]	2.009194196	2.02E-08	4.74E-07
ENSMMUG00000002822	unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]	2.01084065	4.94E-13	3.09E-11
ENSMMUG00000014876	nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]	2.011076904	8.07E-06	0.000101912
ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	2.011659434	3.94E-14	3.11E-12
ENSMMUG00000022207	phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]	2.012181361	0.000274405	0.002124828
ENSMMUG00000061244		2.012580131	0.007992517	0.033674926
ENSMMUG00000053460		2.012661732	1.47E-05	0.00017267
ENSMMUG00000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]	2.016508588	7.36E-06	9.40E-05
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	2.017851049	1.49E-13	1.02E-11
ENSMMUG00000063112		2.018152661	0.009646827	0.038961187
ENSMMUG00000011440	neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]	2.019224014	9.04E-08	1.82E-06
ENSMMUG00000007402	potassium two pore domain channel subfamily K member 7 [Source:VGNC Symbol;Acc:VGNC:73996]	2.020428342	5.44E-11	2.21E-09
ENSMMUG00000043134	coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]	2.021562352	0.000729747	0.004910156
ENSMMUG00000062139		2.023258194	0.000173328	0.001446581
ENSMMUG00000010309	septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]	2.026777	4.28E-05	0.000438794
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]	2.029309594	5.56E-12	2.84E-10
ENSMMUG00000063988		2.029326737	0.002648303	0.013960616
ENSMMUG00000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	2.030971975	2.86E-11	1.26E-09
ENSMMUG00000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	2.037191297	2.39E-10	8.53E-09
ENSMMUG00000003106	SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]	2.039009858	2.99E-09	8.33E-08
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]	2.040850083	4.89E-07	8.62E-06
ENSMMUG00000003482	glycine receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:73075]	2.041414804	8.25E-05	0.000766922
ENSMMUG00000009040	cornulin [Source:VGNC Symbol;Acc:VGNC:71397]	2.042694877	0.008394995	0.034991529
ENSMMUG00000002810	TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]	2.043753033	1.18E-09	3.65E-08
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	2.046304906	1.75E-13	1.18E-11
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]	2.048998463	6.15E-08	1.29E-06
ENSMMUG00000062273	dephospho-CoA kinase domain containing [Source:NCBI gene;Acc:715841]	2.057730932	0.000157048	0.001335403
ENSMMUG00000012065	tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]	2.058911606	1.37E-07	2.65E-06
ENSMMUG00000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	2.059270753	3.06E-17	4.54E-15
ENSMMUG00000007729	ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]	2.059874919	0.000172103	0.001437464
ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]	2.061254724	3.20E-05	0.000340881
ENSMMUG00000000874	carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]	2.064837404	9.29E-11	3.62E-09
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	2.065319143	8.97E-12	4.38E-10
ENSMMUG00000009887	MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]	2.065702838	3.51E-08	7.72E-07
ENSMMUG00000062474	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.06641767	0.000160421	0.00135981
ENSMMUG00000006758	cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]	2.067111806	5.19E-06	6.80E-05
ENSMMUG00000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	2.068426445	0.000165239	0.001389779
ENSMMUG00000061935		2.071723715	1.46E-06	2.22E-05
ENSMMUG00000015930	ADP ribosylation factor like GTPase 6 interacting protein 4 [Source:VGNC Symbol;Acc:VGNC:69860]	2.072876164	0.008205454	0.034333598
ENSMMUG00000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]	2.07341359	3.68E-10	1.25E-08
ENSMMUG00000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]	2.074093099	1.78E-08	4.28E-07

ENSMMUG00000049542		2.075512349	0.000109111	0.000980909
ENSMMUG00000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	2.07720949	6.70E-18	1.10E-15
ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	2.077545762	3.69E-10	1.25E-08
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]	2.078113372	1.72E-09	5.13E-08
ENSMMUG00000009593	WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]	2.079286626	6.82E-10	2.20E-08
ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	2.080005339	8.93E-14	6.53E-12
ENSMMUG00000017906	DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]	2.083178943	0.01301323	0.048965724
ENSMMUG00000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	2.084226912	1.80E-15	1.91E-13
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	2.086137682	8.47E-17	1.09E-14
ENSMMUG00000002515	protein phosphatase 2 phosphatase activator [Source:VGNC Symbol;Acc:VGNC:76583]	2.089020587	1.90E-07	3.58E-06
ENSMMUG00000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]	2.090045044	1.73E-09	5.15E-08
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	2.092794818	2.23E-16	2.72E-14
ENSMMUG00000053481		2.095348424	1.56E-05	0.000181822
ENSMMUG00000060761		2.09808935	2.18E-16	2.68E-14
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	2.098775782	3.29E-13	2.12E-11
ENSMMUG00000023244	guanylate cyclase 1 soluble subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73327]	2.100297893	0.011073738	0.043151727
ENSMMUG00000062063	melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]	2.103030795	2.13E-09	6.16E-08
ENSMMUG00000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	2.103953167	1.30E-14	1.12E-12
ENSMMUG00000032142	complement C8 gamma chain [Source:VGNC Symbol;Acc:VGNC:70481]	2.106582486	0.000331999	0.002506306
ENSMMUG00000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	2.107479273	5.75E-08	1.22E-06
ENSMMUG00000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	2.107704358	5.91E-13	3.64E-11
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	2.118948294	2.13E-10	7.72E-09
ENSMMUG00000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]	2.119298256	1.36E-15	1.48E-13
ENSMMUG00000058437		2.12144036	1.15E-12	6.68E-11
ENSMMUG00000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	2.122647546	5.01E-15	4.89E-13
ENSMMUG00000028471	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	2.125473174	0.000120393	0.001069033
ENSMMUG00000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]	2.127057669	3.32E-18	5.71E-16
ENSMMUG00000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]	2.127946748	2.51E-11	1.10E-09
ENSMMUG00000017761	zinc finger protein 518B [Source:VGNC Symbol;Acc:VGNC:79802]	2.129745403	0.001841885	0.010386853
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	2.133047005	6.54E-07	1.09E-05
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	2.133427984	6.74E-08	1.40E-06
ENSMMUG00000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]	2.133492902	1.77E-08	4.27E-07
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	2.14819925	5.82E-11	2.35E-09
ENSMMUG00000054568		2.14847	7.38E-06	9.41E-05
ENSMMUG00000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	2.148718135	6.43E-11	2.57E-09
ENSMMUG00000062208	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.149655061	0.001891831	0.010582541
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	2.149752511	1.02E-11	4.89E-10
ENSMMUG00000051975		2.153329884	0.000179041	0.001490813
ENSMMUG00000010837	VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]	2.15535329	0.000778713	0.005168991
ENSMMUG00000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.158263567	9.53E-05	0.000870141
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	2.159147542	2.52E-14	2.08E-12
ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]	2.159922846	1.16E-12	6.73E-11
ENSMMUG00000021877	protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]	2.160152028	4.70E-05	0.00047649
ENSMMUG00000064557		2.162373633	9.71E-09	2.42E-07
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]	2.16368904	7.80E-11	3.07E-09
ENSMMUG00000005737	SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]	2.164373161	0.0039659	0.019248474
ENSMMUG00000061335		2.164904536	4.81E-06	6.39E-05
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]	2.165494283	4.91E-11	2.02E-09
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	2.165680845	8.67E-13	5.16E-11
ENSMMUG00000056266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.167899569	4.56E-05	0.000463706
ENSMMUG00000001427	myosin heavy chain 14 [Source:VGNC Symbol;Acc:VGNC:75006]	2.170811791	4.64E-07	8.22E-06

ENSMMUG00000050739		2.1715953	0.001651659	0.009522308
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	2.172455235	1.18E-08	2.92E-07
ENSMMUG00000054414		2.175828738	4.57E-06	6.11E-05
ENSMMUG00000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	2.177259803	3.00E-10	1.03E-08
ENSMMUG00000039205		2.178003254	0.005456298	0.025035189
ENSMMUG00000058013	melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]	2.180690436	1.29E-05	0.000154475
ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	2.183871783	1.13E-13	7.84E-12
ENSMMUG00000022451	proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]	2.186326246	0.003370354	0.016882235
ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	2.187262132	1.72E-11	7.88E-10
ENSMMUG00000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	2.187440609	2.37E-07	4.43E-06
ENSMMUG00000060517		2.188747053	5.97E-08	1.26E-06
ENSMMUG00000009372	tetratricopeptide repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:79565]	2.190136216	0.012313432	0.046754789
ENSMMUG00000060437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.193505091	0.006143517	0.027410509
ENSMMUG00000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	2.1943693	6.95E-11	2.75E-09
ENSMMUG00000022463	C-type lectin CD209L2 [Source:NCBI gene;Acc:574373]	2.195040832	0.0009343	0.005943199
ENSMMUG00000023060	A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]	2.201412868	0.000487827	0.003502071
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]	2.205525668	7.49E-18	1.21E-15
ENSMMUG00000023449	mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]	2.206874825	0.000102025	0.000924888
ENSMMUG00000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	2.208389675	1.81E-06	2.69E-05
ENSMMUG00000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	2.210732483	5.83E-15	5.54E-13
ENSMMUG00000059134		2.215562492	0.000595016	0.004137232
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]	2.21771134	2.18E-13	1.46E-11
ENSMMUG00000008162	fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]	2.21953297	4.71E-10	1.55E-08
ENSMMUG00000005992	zinc metalloproteinase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]	2.221364249	3.68E-06	5.04E-05
ENSMMUG00000062454		2.222083183	2.06E-09	6.00E-08
ENSMMUG00000062863		2.223756941	7.02E-07	1.16E-05
ENSMMUG00000014397	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	2.224083885	0.000247794	0.001959383
ENSMMUG00000061123	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.224506278	0.004445487	0.021159035
ENSMMUG00000014699		2.225258507	8.73E-18	1.37E-15
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.229283602	2.13E-15	2.24E-13
ENSMMUG00000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	2.229952558	2.20E-09	6.30E-08
ENSMMUG00000020190	valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]	2.23382986	1.02E-07	2.03E-06
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	2.234998976	7.09E-13	4.27E-11
ENSMMUG00000046918		2.236163442	0.003595854	0.017762833
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	2.238756036	2.17E-15	2.26E-13
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	2.240692071	3.10E-17	4.54E-15
ENSMMUG00000056522		2.242173089	2.88E-05	0.000310836
ENSMMUG00000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	2.246755186	4.98E-14	3.86E-12
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]	2.248708804	0.000354727	0.002650174
ENSMMUG00000057554	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.249226853	0.005472373	0.025098316
ENSMMUG00000064892		2.249257901	1.11E-06	1.73E-05
ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	2.25331216	5.04E-06	6.63E-05
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	2.254416773	2.09E-11	9.37E-10
ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]	2.254439513	4.14E-11	1.73E-09
ENSMMUG00000050543		2.258867629	1.17E-06	1.82E-05
ENSMMUG00000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]	2.262170661	4.57E-19	9.35E-17
ENSMMUG00000009988	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	2.264048309	1.63E-12	9.04E-11
ENSMMUG00000045513		2.264334079	4.59E-06	6.13E-05
ENSMMUG00000046169		2.265259205	7.98E-05	0.00074675
ENSMMUG00000056529	synaptotagmin 3 [Source:NCBI gene;Acc:719650]	2.267054691	0.002895715	0.014895197
ENSMMUG00000061606	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.272115071	0.000799759	0.005269947

ENSMMUG00000014237	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	2.278765809	3.70E-13	2.35E-11
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	2.279453707	3.81E-07	6.88E-06
ENSMMUG00000050844	BTB domain containing 18 [Source:NCBI gene;Acc:703264]	2.280005698	0.002707169	0.014174365
ENSMMUG00000061684		2.28017948	3.80E-05	0.000395755
ENSMMUG00000002943	glutaminyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:76634]	2.280319184	0.011894616	0.045608578
ENSMMUG00000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]	2.280883089	1.31E-12	7.53E-11
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	2.281451524	8.09E-09	2.04E-07
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	2.283476979	2.47E-16	2.94E-14
ENSMMUG00000060497		2.283572579	0.006838106	0.029954386
ENSMMUG00000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	2.284259834	7.69E-09	1.95E-07
ENSMMUG00000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	2.28487577	1.78E-12	9.82E-11
ENSMMUG00000057909		2.28947438	0.000201319	0.001645954
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]	2.292714701	1.85E-18	3.28E-16
ENSMMUG00000059182		2.296638872	3.67E-09	1.00E-07
ENSMMUG00000060576		2.298552	4.99E-13	3.11E-11
ENSMMUG00000008778	parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]	2.298840415	3.63E-12	1.91E-10
ENSMMUG00000058817		2.300138298	1.98E-13	1.33E-11
ENSMMUG00000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	2.301268296	1.79E-15	1.91E-13
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	2.302957971	2.38E-11	1.06E-09
ENSMMUG00000049355	ALX homeobox 4 [Source:NCBI gene;Acc:715652]	2.304632865	0.001460606	0.008599316
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	2.306366795	0.000123759	0.001094432
ENSMMUG00000004587	gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]	2.309155147	0.00124707	0.007551431
ENSMMUG00000057702		2.311597299	3.75E-15	3.73E-13
ENSMMUG00000003098	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]	2.31189603	3.60E-12	1.91E-10
ENSMMUG00000016099	hedgehog acyltransferase [Source:NCBI gene;Acc:712333]	2.313446782	0.000188492	0.001551622
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]	2.316993175	9.15E-14	6.65E-12
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	2.317635715	5.67E-14	4.30E-12
ENSMMUG00000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	2.328346333	1.43E-12	8.11E-11
ENSMMUG00000053781	Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]	2.328679901	0.001811684	0.010237856
ENSMMUG00000056437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.329734846	0.000262009	0.002043446
ENSMMUG00000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	2.330957992	1.29E-21	4.23E-19
ENSMMUG00000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	2.33224567	7.15E-13	4.28E-11
ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]	2.333727207	5.57E-07	9.54E-06
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	2.333754145	3.24E-06	4.49E-05
ENSMMUG00000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]	2.33646967	7.68E-08	1.57E-06
ENSMMUG00000062091		2.34170844	0.001165803	0.00712689
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]	2.341775073	1.77E-05	0.000202748
ENSMMUG00000052891		2.350127589	4.22E-07	7.56E-06
ENSMMUG00000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	2.353146704	9.79E-08	1.96E-06
ENSMMUG00000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	2.360382448	4.49E-17	6.16E-15
ENSMMUG00000062419		2.363364817	0.011899073	0.045608578
ENSMMUG00000052453	serpin family A member 11 [Source:NCBI gene;Acc:701483]	2.363413662	0.003910255	0.019038107
ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]	2.36536413	8.29E-05	0.000770496
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	2.366149702	1.09E-13	7.72E-12
ENSMMUG00000014349	integrin subunit alpha X [Source:NCBI gene;Acc:100427850]	2.370464685	7.73E-06	9.81E-05
ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]	2.371283868	1.10E-14	9.86E-13
ENSMMUG00000004028	kelch repeat and BTB domain containing 13 [Source:VGNC Symbol;Acc:VGNC:73953]	2.372272145	0.004417572	0.021044658
ENSMMUG00000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	2.373683203	0.000145197	0.001250334
ENSMMUG00000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	2.376595183	5.32E-10	1.74E-08
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]	2.378570473	1.60E-20	4.34E-18
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	2.383572313	4.44E-07	7.90E-06

ENSMMUG00000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	2.38382419	1.16E-22	4.48E-20
ENSMMUG00000002377	Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]	2.384164225	0.00015168	0.001293281
ENSMMUG00000013176	NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]	2.384600958	0.000258286	0.002026073
ENSMMUG00000039009		2.385080103	1.35E-05	0.000160307
ENSMMUG00000001910	heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]	2.385469039	6.03E-05	0.000592359
ENSMMUG00000050405		2.386277005	8.45E-08	1.71E-06
ENSMMUG00000001820	regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]	2.396282945	0.009971159	0.039976892
ENSMMUG00000005698	alkaline ceramidase 1 [Source:VGNC Symbol;Acc:VGNC:69460]	2.398881886	0.009670071	0.039015224
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	2.400622524	1.52E-20	4.21E-18
ENSMMUG00000025050	Y RNA [Source:RFAM;Acc:RF00019]	2.403990364	0.004578753	0.021650648
ENSMMUG00000009184	myelin protein zero like 1 [Source:NCBI gene;Acc:698437]	2.405725403	0.002371565	0.01276788
ENSMMUG00000020919	shroom family member 3 [Source:VGNC Symbol;Acc:VGNC:77352]	2.405766658	0.000376641	0.002784223
ENSMMUG00000017124	spliceosome associated factor 3, U4/U6 recycling protein [Source:VGNC Symbol;Acc:VGNC:77029]	2.405781585	8.88E-06	0.000111833
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	2.407067625	2.47E-18	4.32E-16
ENSMMUG00000061342		2.408545441	3.42E-15	3.43E-13
ENSMMUG00000006853	crystallin beta B2 [Source:NCBI gene;Acc:100144420]	2.408658517	0.003660161	0.018022966
ENSMMUG00000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]	2.411544071	1.37E-18	2.60E-16
ENSMMUG00000002124	beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]	2.414727717	7.46E-07	1.22E-05
ENSMMUG00000055710	taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]	2.415018142	2.10E-05	0.000233782
ENSMMUG00000056992	zinc finger AN1-type containing 6 [Source:NCBI gene;Acc:717543]	2.422881927	7.22E-07	1.19E-05
ENSMMUG00000063238		2.423479681	0.000136889	0.001192058
ENSMMUG00000064824	gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]	2.427454372	1.32E-07	2.58E-06
ENSMMUG00000012147	collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]	2.428102395	6.27E-09	1.62E-07
ENSMMUG00000018345	phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	2.433128635	3.51E-14	2.79E-12
ENSMMUG00000057687		2.433809416	4.48E-15	4.41E-13
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]	2.436030248	6.41E-07	1.07E-05
ENSMMUG00000055811		2.436886509	1.99E-10	7.33E-09
ENSMMUG00000005986	Kruppel like factor 17 [Source:NCBI gene;Acc:702810]	2.437461655	0.000223077	0.001792725
ENSMMUG00000059299	membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]	2.439034254	0.003855451	0.01885603
ENSMMUG00000014076	AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]	2.440296144	0.005754332	0.026082291
ENSMMUG00000059188		2.442597837	9.71E-08	1.95E-06
ENSMMUG00000049678		2.447888495	4.92E-09	1.30E-07
ENSMMUG00000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	2.448581323	0.002524003	0.013396631
ENSMMUG00000056980		2.448862634	0.0006307	0.004346292
ENSMMUG00000023403	GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]	2.450930818	0.001087043	0.006721427
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]	2.453548857	4.57E-16	5.21E-14
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]	2.456488299	8.65E-11	3.39E-09
ENSMMUG00000018664	collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]	2.45759261	1.87E-10	7.04E-09
ENSMMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]	2.458474153	1.28E-11	6.06E-10
ENSMMUG00000058907		2.459705058	0.001214178	0.007366305
ENSMMUG00000009564	NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]	2.460995282	3.33E-05	0.00035298
ENSMMUG00000056798		2.462397214	0.00119101	0.007248434
ENSMMUG00000053691	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.464530497	0.012750444	0.048077117
ENSMMUG00000055589		2.465321906	7.02E-05	0.000670609
ENSMMUG00000060581		2.470886784	1.52E-05	0.000177328
ENSMMUG00000035888	small nucleolar RNA, C/D box 121A [Source:HGNC Symbol;Acc:HGNC:33560]	2.471075038	0.000730325	0.004910741
ENSMMUG00000014408	GIT ArfGAP 1 [Source:VGNC Symbol;Acc:VGNC:73053]	2.472054729	0.004680875	0.022027766
ENSMMUG00000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]	2.473662038	5.07E-07	8.86E-06
ENSMMUG00000053984		2.480878196	0.011557535	0.044587883
ENSMMUG00000058758		2.486414857	0.009389494	0.038096026
ENSMMUG00000007140	MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]	2.488470751	0.001611187	0.009323712

ENSMMUG00000049894		2.489010183	0.001678479	0.009641019
ENSMMUG00000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	2.492278044	1.08E-12	6.32E-11
ENSMMUG00000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	2.493157647	5.19E-15	5.02E-13
ENSMMUG000000054960		2.501760957	5.41E-06	7.07E-05
ENSMMUG000000061576		2.503178542	0.001922671	0.010725179
ENSMMUG000000055038		2.504618205	0.001838237	0.010371679
ENSMMUG00000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]	2.50512321	3.51E-11	1.52E-09
ENSMMUG000000055897		2.50519348	1.89E-14	1.60E-12
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]	2.519231313	6.59E-14	4.92E-12
ENSMMUG00000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	2.520922991	2.18E-22	7.87E-20
ENSMMUG000000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	2.521794872	1.38E-17	2.10E-15
ENSMMUG000000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	2.522924324	2.56E-16	3.02E-14
ENSMMUG000000055012		2.523633996	0.00600818	0.026943114
ENSMMUG000000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	2.524748753	2.83E-22	9.90E-20
ENSMMUG000000052777		2.525246482	7.01E-08	1.45E-06
ENSMMUG00000008514	lin-54 DREAM MuvB core complex component [Source:VGNC Symbol;Acc:VGNC:74123]	2.526294558	0.001371007	0.008164991
ENSMMUG000000038944		2.530622455	2.40E-19	5.23E-17
ENSMMUG000000038989	erythropoietin receptor [Source:NCBI gene;Acc:714546]	2.531037822	0.000731194	0.004910741
ENSMMUG000000048621	enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]	2.535543052	1.39E-11	6.55E-10
ENSMMUG00000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	2.545980329	2.60E-10	9.22E-09
ENSMMUG00000004330	peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]	2.549180108	0.01222749	0.046606918
ENSMMUG00000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	2.557379433	7.25E-10	2.32E-08
ENSMMUG00000023048	cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]	2.559264538	0.000167376	0.001404484
ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]	2.565329861	2.00E-10	7.33E-09
ENSMMUG000000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	2.565389521	3.43E-12	1.83E-10
ENSMMUG000000063868	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.578756846	2.96E-06	4.15E-05
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	2.582751047	3.02E-07	5.54E-06
ENSMMUG000000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	2.58470772	2.75E-20	7.27E-18
ENSMMUG00000015513	CUGBP Elav-like family member 5 [Source:NCBI gene;Acc:721694]	2.586102815	0.000594491	0.004137232
ENSMMUG000000056605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.593657517	0.009779807	0.039384627
ENSMMUG000000022785	solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]	2.598453456	0.010957947	0.04280831
ENSMMUG000000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	2.600777689	4.88E-12	2.52E-10
ENSMMUG000000058536		2.604190388	1.47E-11	6.86E-10
ENSMMUG000000061845		2.619046625	0.000369043	0.00273825
ENSMMUG000000028785	zinc finger protein 146 [Source:VGNC Symbol;Acc:VGNC:78846]	2.623467279	0.000432193	0.003150703
ENSMMUG000000062254		2.625359601	2.72E-05	0.000296547
ENSMMUG000000057329		2.630369302	5.15E-05	0.000516668
ENSMMUG000000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.631801373	2.03E-10	7.39E-09
ENSMMUG00000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	2.636948081	1.22E-07	2.40E-06
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	2.642449532	1.13E-20	3.22E-18
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	2.64768692	1.81E-06	2.69E-05
ENSMMUG00000006596	CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]	2.648133064	5.60E-13	3.47E-11
ENSMMUG000000061896		2.64867669	2.89E-09	8.10E-08
ENSMMUG000000057539		2.658401054	1.06E-06	1.66E-05
ENSMMUG000000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	2.659198274	6.71E-11	2.66E-09
ENSMMUG000000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	2.661058569	2.21E-24	1.26E-21
ENSMMUG000000009884	hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]	2.661693425	3.68E-05	0.000385244
ENSMMUG000000022633	replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]	2.663610192	1.07E-08	2.66E-07
ENSMMUG000000061923		2.667624732	0.000381972	0.002812988
ENSMMUG000000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	2.668407092	7.58E-15	6.96E-13
ENSMMUG000000052961		2.668746467	0.004491857	0.021351598

ENSMMUG0000000377	TNF receptor superfamily member 1A [Source:VGNC Symbol;Acc:VGNC:78589]	2.66995566	0.000941891	0.005984463
ENSMMUG00000059700		2.672211167	0.0079983	0.033674926
ENSMMUG00000054621		2.675592615	0.007396895	0.031785231
ENSMMUG00000023282	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]	2.678368089	9.28E-14	6.66E-12
ENSMMUG00000016827	UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]	2.679909703	0.001006568	0.006321245
ENSMMUG00000005504	nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]	2.680020628	0.0001516	0.001293281
ENSMMUG00000056248		2.680098739	1.76E-10	6.66E-09
ENSMMUG00000003739	mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]	2.683848332	1.11E-13	7.78E-12
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]	2.684764375	2.67E-08	6.11E-07
ENSMMUG00000054211		2.689250485	0.003652316	0.017992516
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	2.692765055	1.07E-18	2.06E-16
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	2.693075334	2.52E-19	5.36E-17
ENSMMUG00000052954	Wnt family member 6 [Source:NCBI gene;Acc:700573]	2.694473325	0.002439483	0.013031027
ENSMMUG00000010824	SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]	2.696180209	1.34E-08	3.27E-07
ENSMMUG00000005356	integrator complex subunit 8 [Source:VGNC Symbol;Acc:VGNC:73657]	2.698473582	0.007626622	0.032559132
ENSMMUG00000052530		2.70014959	0.000800449	0.005271286
ENSMMUG00000008160	neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]	2.703537865	1.27E-06	1.96E-05
ENSMMUG00000023286	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	2.709573144	3.87E-11	1.64E-09
ENSMMUG00000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	2.710034743	1.07E-16	1.34E-14
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	2.727349416	7.64E-26	5.52E-23
ENSMMUG00000062326		2.733791976	1.50E-12	8.44E-11
ENSMMUG00000013251	xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]	2.736006975	0.001327038	0.007960021
ENSMMUG00000049755	leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]	2.736012015	0.000270741	0.002099454
ENSMMUG00000015606	Spi-1 proto-oncogene [Source:NCBI gene;Acc:712010]	2.738470363	8.15E-07	1.32E-05
ENSMMUG00000059589		2.7390395	0.00026492	0.002061697
ENSMMUG00000012068	signal induced proliferation associated 1 like 2 [Source:NCBI gene;Acc:100425123]	2.740004982	2.77E-05	0.000300289
ENSMMUG00000024537		2.745433965	0.000834393	0.005455029
ENSMMUG00000064730		2.748247269	3.98E-09	1.08E-07
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	2.753368574	1.97E-10	7.32E-09
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	2.757164703	3.53E-11	1.52E-09
ENSMMUG00000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	2.758430355	7.11E-19	1.40E-16
ENSMMUG00000006130	prolyl 4-hydroxylase, transmembrane [Source:VGNC Symbol;Acc:VGNC:75693]	2.760992588	0.005055109	0.023492918
ENSMMUG00000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	2.76299282	3.44E-08	7.59E-07
ENSMMUG00000010180	PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	2.764199743	2.43E-09	6.93E-08
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	2.773023026	5.81E-09	1.52E-07
ENSMMUG00000064707		2.778398369	7.65E-09	1.95E-07
ENSMMUG00000023045	zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]	2.778691786	0.001669496	0.009604699
ENSMMUG00000004283	calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]	2.783612972	2.62E-08	6.00E-07
ENSMMUG00000006079	leucine rich repeat containing 19 [Source:VGNC Symbol;Acc:VGNC:74337]	2.78896906	0.012286442	0.046717807
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	2.789111828	1.70E-21	5.43E-19
ENSMMUG00000016434	NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]	2.790571548	2.06E-06	3.00E-05
ENSMMUG00000011472	PWWP domain containing 2A [Source:VGNC Symbol;Acc:VGNC:76564]	2.793020077	0.000382965	0.002818382
ENSMMUG00000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	2.79398494	1.94E-09	5.69E-08
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]	2.794394483	1.02E-19	2.40E-17
ENSMMUG00000056707		2.798492535	0.008891012	0.036650051
ENSMMUG00000065295		2.799971766	1.33E-26	1.11E-23
ENSMMUG00000045654	tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]	2.801047508	9.11E-06	0.00011436
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	2.80176755	3.59E-21	1.11E-18
ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]	2.804335267	4.64E-09	1.24E-07
ENSMMUG00000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	2.808396566	1.44E-23	6.77E-21
ENSMMUG00000053106		2.815006149	3.17E-14	2.54E-12

ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	2.818653539	0.002750249	0.014330663
ENSMMUG00000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	2.820055421	1.92E-09	5.64E-08
ENSMMUG00000063779		2.823284543	6.14E-15	5.74E-13
ENSMMUG00000050608		2.828114138	1.28E-17	1.97E-15
ENSMMUG00000010137	microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]	2.835008545	0.001004067	0.006309201
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	2.838079144	4.08E-09	1.10E-07
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.838520301	1.05E-07	2.08E-06
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	2.842984551	3.65E-11	1.56E-09
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	2.844553504	3.58E-17	5.04E-15
ENSMMUG00000061225		2.844897636	0.012666868	0.047828575
ENSMMUG00000013330	ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]	2.848527843	5.39E-11	2.20E-09
ENSMMUG00000059778		2.848553853	0.000231145	0.001852067
ENSMMUG00000009361	fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]	2.851209348	1.11E-13	7.78E-12
ENSMMUG00000063383		2.851345815	0.003807283	0.018662761
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	2.85258837	2.01E-16	2.51E-14
ENSMMUG00000015555	ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]	2.85559798	2.91E-10	1.01E-08
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	2.857872275	8.95E-27	8.08E-24
ENSMMUG00000019802	family with sequence similarity 133 member B [Source:NCBI gene;Acc:702054]	2.866399092	1.36E-10	5.26E-09
ENSMMUG00000057157		2.868051095	3.01E-10	1.03E-08
ENSMMUG00000059442		2.872582359	0.009171442	0.037435657
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]	2.875739284	5.01E-26	3.88E-23
ENSMMUG00000052569		2.879882981	1.28E-05	0.000153973
ENSMMUG00000010007	CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]	2.884002193	2.81E-07	5.17E-06
ENSMMUG00000029455	olfactory receptor 4Q2 [Source:NCBI gene;Acc:114679271]	2.88907436	7.69E-18	1.23E-15
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	2.896003661	1.27E-14	1.11E-12
ENSMMUG00000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	2.898690819	6.36E-18	1.06E-15
ENSMMUG00000021476	BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]	2.907067266	4.68E-06	6.25E-05
ENSMMUG00000004472	collagen type XVIII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81291]	2.907944153	0.000511292	0.003639174
ENSMMUG00000051879	CAP-Gly domain containing linker protein 3 [Source:NCBI gene;Acc:712058]	2.914819714	0.00116953	0.007141781
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	2.930599666	2.00E-10	7.33E-09
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	2.931982846	7.77E-08	1.58E-06
ENSMMUG00000059782		2.932976904	1.46E-09	4.41E-08
ENSMMUG00000004470	CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]	2.935454184	2.73E-05	0.00029712
ENSMMUG00000056741	ovostatin-like [Source:NCBI gene;Acc:722294]	2.938164311	0.000161569	0.001366169
ENSMMUG00000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	2.942248995	1.17E-08	2.89E-07
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	2.943408	9.03E-20	2.17E-17
ENSMMUG00000012842	SET domain containing 1B, histone lysine methyltransferase [Source:NCBI gene;Acc:703717]	2.943944006	0.001407997	0.008348568
ENSMMUG00000001748	spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]	2.945936176	2.91E-05	0.000313669
ENSMMUG00000019546	regucalcin [Source:VGNC Symbol;Acc:VGNC:76912]	2.953271168	0.000122044	0.001082803
ENSMMUG00000005482	lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]	2.961224254	1.76E-05	0.000202333
ENSMMUG00000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	2.961297065	6.89E-25	4.39E-22
ENSMMUG00000056151		2.967925003	0.010852468	0.042565091
ENSMMUG00000059504		2.976609971	2.77E-06	3.92E-05
ENSMMUG00000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	2.983026504	1.53E-10	5.85E-09
ENSMMUG00000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]	2.984384923	2.71E-10	9.57E-09
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]	3.000069712	1.22E-29	1.66E-26
ENSMMUG00000016404	chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]	3.002422741	0.000144378	0.001245264
ENSMMUG00000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	3.008306857	1.67E-18	3.01E-16
ENSMMUG00000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	3.010258757	0.000493899	0.003540975
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	3.014477616	2.97E-32	4.59E-29
ENSMMUG00000014138	forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]	3.015195866	7.29E-14	5.37E-12

ENSMMUG00000062037	stannin [Source:NCBI gene;Acc:711909]	3.015786823	1.33E-07	2.60E-06
ENSMMUG00000057632		3.016687533	4.77E-07	8.44E-06
ENSMMUG00000059302	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.034598802	7.22E-05	0.000687162
ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	3.036975626	3.33E-07	6.05E-06
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	3.037638541	5.04E-16	5.69E-14
ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	3.039415661	7.40E-23	3.21E-20
ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]	3.052168449	0.00019736	0.00161683
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	3.054888731	7.54E-08	1.54E-06
ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]	3.060199507	4.77E-08	1.03E-06
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	3.064348302	7.75E-09	1.97E-07
ENSMMUG00000051925		3.069320508	8.70E-08	1.76E-06
ENSMMUG00000009437	zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]	3.079368571	8.58E-05	0.000791594
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	3.083223398	4.31E-21	1.26E-18
ENSMMUG00000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]	3.083603621	3.62E-12	1.91E-10
ENSMMUG00000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	3.083666725	8.55E-06	0.000107793
ENSMMUG00000053457	caspase 14 [Source:NCBI gene;Acc:718049]	3.086855226	4.44E-11	1.84E-09
ENSMMUG00000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	3.112759633	1.85E-22	6.92E-20
ENSMMUG00000016442	glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]	3.118174606	0.000309682	0.00236086
ENSMMUG00000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.122861398	7.24E-07	1.19E-05
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	3.136400002	5.99E-07	1.02E-05
ENSMMUG00000063525		3.142185371	6.71E-08	1.39E-06
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	3.146155451	6.57E-12	3.30E-10
ENSMMUG00000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	3.14811645	7.88E-23	3.28E-20
ENSMMUG00000008843	lymphotoxin alpha [Source:VGNC Symbol;Acc:VGNC:74452]	3.150024872	7.77E-06	9.84E-05
ENSMMUG00000018298	killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]	3.16155972	0.005880805	0.026489296
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	3.168855631	4.20E-19	8.76E-17
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	3.177504673	5.65E-18	9.56E-16
ENSMMUG00000015693	lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]	3.181647824	2.01E-10	7.34E-09
ENSMMUG00000056063		3.184968324	0.000871603	0.005637057
ENSMMUG00000061533		3.193487227	3.09E-15	3.13E-13
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	3.197120116	4.57E-12	2.37E-10
ENSMMUG00000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	3.199575573	1.86E-12	1.02E-10
ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.207649843	1.34E-07	2.60E-06
ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.213085749	3.61E-13	2.30E-11
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	3.214391658	1.89E-10	7.09E-09
ENSMMUG00000008853	leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:HGNC:14189]	3.216586015	3.17E-05	0.000339672
ENSMMUG00000003007	caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]	3.217221082	1.30E-06	2.00E-05
ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]	3.219330086	0.002372542	0.01276788
ENSMMUG00000062083		3.227592919	0.000109544	0.000983989
ENSMMUG00000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	3.229967239	1.04E-22	4.19E-20
ENSMMUG00000007773	solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]	3.2328301	0.000463815	0.003347325
ENSMMUG00000049130		3.236882155	1.25E-24	7.51E-22
ENSMMUG00000046099	chromosome 19 C19orf81 homolog [Source:NCBI gene;Acc:719661]	3.244604948	0.002400575	0.01287413
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]	3.257336091	2.88E-10	1.00E-08
ENSMMUG00000060289		3.257867766	4.37E-20	1.10E-17
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.266403969	2.63E-05	0.000289117
ENSMMUG00000008197	netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]	3.271106435	0.002795792	0.014512132
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	3.276547392	5.65E-24	2.78E-21
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	3.280061971	7.35E-16	8.20E-14
ENSMMUG00000062794		3.280704287	2.07E-09	6.01E-08
ENSMMUG00000060767		3.288277196	1.48E-07	2.85E-06

ENSMMUG00000053722		3.297594951	7.28E-05	0.00069208
ENSMMUG0000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	3.302288399	2.35E-05	0.000261216
ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	3.31471769	2.41E-19	5.23E-17
ENSMMUG00000060808		3.319008497	0.00226056	0.012256839
ENSMMUG00000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	3.322620721	1.67E-17	2.51E-15
ENSMMUG00000064226		3.324271639	0.000203577	0.001659402
ENSMMUG00000056593		3.330188442	0.009823192	0.039515275
ENSMMUG00000054159	lymphocyte antigen 6 family member G5C [Source:VGNC Symbol;Acc:VGNC:83431]	3.331402994	0.012403074	0.047045695
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	3.331881206	2.69E-14	2.21E-12
ENSMMUG00000063914		3.337493284	5.59E-36	2.02E-32
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	3.344712781	9.25E-17	1.18E-14
ENSMMUG00000008839	DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]	3.347293649	2.52E-06	3.60E-05
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	3.357160606	6.18E-10	2.01E-08
ENSMMUG00000054486	testis expressed 35 [Source:NCBI gene;Acc:717255]	3.357376294	0.00895951	0.036834508
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]	3.377504213	1.84E-09	5.45E-08
ENSMMUG00000056629	nucleolar protein 12 [Source:NCBI gene;Acc:698318]	3.383155748	3.18E-05	0.000339884
ENSMMUG00000064095		3.391426657	0.000588242	0.004108595
ENSMMUG00000010626	CD1c molecule [Source:VGNC Symbol;Acc:VGNC:70756]	3.394766307	0.000147629	0.00126624
ENSMMUG00000031391	RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]	3.397904264	3.63E-09	9.92E-08
ENSMMUG00000060435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.419776775	1.89E-06	2.78E-05
ENSMMUG00000007726	synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]	3.420068652	1.84E-06	2.72E-05
ENSMMUG00000013713	beta 3-glucoyltransferase [Source:NCBI gene;Acc:713498]	3.452277528	2.90E-16	3.38E-14
ENSMMUG00000005293	G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]	3.453187427	9.56E-09	2.39E-07
ENSMMUG00000058162		3.466054676	0.000676202	0.004610002
ENSMMUG00000004576	C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]	3.468257261	3.77E-21	1.14E-18
ENSMMUG00000019690	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	3.47036548	6.75E-12	3.37E-10
ENSMMUG00000046186	stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]	3.491191011	1.09E-05	0.000133443
ENSMMUG00000049267		3.491523305	9.42E-07	1.50E-05
ENSMMUG00000016894	ribosomal protein S25 [Source:NCBI gene;Acc:702593]	3.495742555	0.000138564	0.001202774
ENSMMUG00000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	3.504813317	3.51E-28	3.45E-25
ENSMMUG00000005294	casein kinase 2 beta [Source:NCBI gene;Acc:715807]	3.515042761	9.41E-09	2.36E-07
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	3.524280302	2.90E-43	1.57E-39
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	3.531523779	2.34E-32	4.59E-29
ENSMMUG00000008849	lymphotoxin beta [Source:VGNC Symbol;Acc:VGNC:74454]	3.532861388	0.001145196	0.007016918
ENSMMUG00000025918	small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]	3.546153806	9.07E-05	0.000832842
ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	3.547249068	4.19E-05	0.000431301
ENSMMUG00000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	3.548005004	1.64E-10	6.24E-09
ENSMMUG00000056749	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.550691356	0.009834297	0.039545262
ENSMMUG00000031166	McKusick-Kaufman syndrome [Source:NCBI gene;Acc:718547]	3.559385778	0.007868583	0.03325804
ENSMMUG00000007068	tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]	3.573158621	0.005524504	0.025294571
ENSMMUG00000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	3.57864301	4.22E-09	1.13E-07
ENSMMUG00000007206	chromosome 3 C7orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70609]	3.58857375	0.005729155	0.02600081
ENSMMUG00000060632		3.596886374	1.38E-05	0.000163657
ENSMMUG00000020156	CD1d molecule [Source:VGNC Symbol;Acc:VGNC:70757]	3.600552943	0.00016703	0.001402666
ENSMMUG00000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	3.600816264	8.48E-05	0.000785575
ENSMMUG00000028907	insulin receptor [Source:NCBI gene;Acc:706009]	3.60903092	4.09E-17	5.69E-15
ENSMMUG00000005997	cell division cycle 14B [Source:NCBI gene;Acc:710300]	3.617010805	0.003195577	0.016171155
ENSMMUG00000057570		3.617332574	1.69E-33	4.57E-30
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	3.619862029	3.31E-23	1.50E-20
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	3.626344812	1.56E-05	0.000181094
ENSMMUG00000021477	ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]	3.631672756	1.57E-19	3.54E-17

ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]	3.64958754	5.93E-20	1.46E-17
ENSMMUG00000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	3.657624949	5.95E-14	4.48E-12
ENSMMUG00000005303	apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]	3.669936379	3.13E-05	0.00033585
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	3.676556956	0.000251431	0.001983793
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	3.681993304	2.55E-32	4.59E-29
ENSMMUG00000001338	antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]	3.686366495	0.00722729	0.031248597
ENSMMUG00000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	3.695313634	2.83E-08	6.35E-07
ENSMMUG00000004868	dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]	3.712274769	0.01333185	0.049973678
ENSMMUG00000022818	inhibitor of growth family member 1 [Source:VGNC Symbol;Acc:VGNC:73742]	3.72129151	0.01109537	0.043215578
ENSMMUG00000026474	Small nucleolar RNA SNORD83 [Source:RFAM;Acc:RF00137]	3.729783149	0.011641259	0.044867339
ENSMMUG00000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	3.736544012	3.33E-24	1.72E-21
ENSMMUG00000037641	chondrosarcoma-associated gene 2/3 protein [Source:NCBI gene;Acc:106992305]	3.746464503	0.010679481	0.042115331
ENSMMUG00000012316	CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]	3.784265541	0.011957644	0.045789025
ENSMMUG00000016237	taxilin gamma [Source:NCBI gene;Acc:713769]	3.793202776	0.009662281	0.038998319
ENSMMUG00000059036		3.798584439	0.003864164	0.01888159
ENSMMUG00000058916		3.800984772	5.37E-14	4.09E-12
ENSMMUG00000002566	selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]	3.831302037	0.001892216	0.010582541
ENSMMUG00000058326	neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]	3.845821749	0.009020233	0.036970314
ENSMMUG00000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	3.845944961	1.35E-19	3.11E-17
ENSMMUG00000036223		3.863131385	0.001584808	0.009190697
ENSMMUG00000011866	phosphatidylinositol glycan anchor biosynthesis class O [Source:VGNC Symbol;Acc:VGNC:75851]	3.865716916	0.002096846	0.011536382
ENSMMUG00000058423		3.896456226	2.79E-13	1.83E-11
ENSMMUG00000031100	membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]	3.899182762	5.53E-09	1.45E-07
ENSMMUG00000047704	zinc finger protein 223 [Source:NCBI gene;Acc:711652]	3.903849624	0.013235452	0.049715552
ENSMMUG00000047452		3.907976752	0.008192243	0.034291566
ENSMMUG00000055820		3.909890989	5.96E-07	1.01E-05
ENSMMUG00000026584	Y RNA [Source:RFAM;Acc:RF00019]	3.910423484	0.007663092	0.032609868
ENSMMUG00000051537		3.921598812	0.000224149	0.001800007
ENSMMUG00000003023	chaperonin containing TCP1 subunit 8 [Source:VGNC Symbol;Acc:VGNC:70749]	3.929101324	0.006390395	0.028325345
ENSMMUG00000052195		3.979897493	0.001674431	0.009627976
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	3.983063242	5.96E-08	1.26E-06
ENSMMUG00000056058	C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]	3.98440054	0.001038565	0.00648086
ENSMMUG00000033550		3.986212738	0.005822798	0.026273566
ENSMMUG00000058229	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.992380193	0.001113591	0.006862077
ENSMMUG00000004309	APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]	4.006783179	0.007768534	0.032912212
ENSMMUG00000001485	transmembrane protein 150C [Source:NCBI gene;Acc:694136]	4.028835056	0.005531408	0.025315479
ENSMMUG00000061589	proteinase 3 [Source:HGNC Symbol;Acc:HGNC:9495]	4.039231542	0.00805502	0.033887393
ENSMMUG00000065129		4.047605024	0.004155848	0.019991254
ENSMMUG00000052637	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.050624553	3.95E-06	5.35E-05
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]	4.056933264	0.002110535	0.01158815
ENSMMUG00000043396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.065430193	0.000860426	0.005584775
ENSMMUG00000063198		4.072081215	4.99E-05	0.000503828
ENSMMUG00000056184		4.077448992	3.42E-05	0.000361516
ENSMMUG00000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.094849623	0.001053437	0.006547263
ENSMMUG00000008183	retinoid X receptor alpha [Source:VGNC Symbol;Acc:VGNC:76951]	4.112384559	0.011463428	0.044256347
ENSMMUG00000063913	endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]	4.113308568	0.000186611	0.001540821
ENSMMUG00000064694	AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]	4.123519618	0.005278981	0.024397271
ENSMMUG00000060184	SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]	4.12405559	0.00064168	0.004405145
ENSMMUG00000059335		4.12774824	0.011784862	0.045287483
ENSMMUG00000063820	olfactory receptor, family 52, subfamily M, member 1 [Source:NCBI gene;Acc:717723]	4.143531586	0.000619589	0.004283347
ENSMMUG00000005738	N-acetyltransferase 9 (putative) [Source:NCBI gene;Acc:699085]	4.161310568	0.010542144	0.041736442

ENSMMUG00000062092		4.173003162	0.010050133	0.040189403
ENSMMUG00000016069	cubilin [Source:VGNC Symbol;Acc:VGNC:82132]	4.200684064	1.52E-18	2.84E-16
ENSMMUG00000052785	extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]	4.203086382	0.005929752	0.026646515
ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	4.207700847	3.18E-29	3.45E-26
ENSMMUG00000009182	caspace 8 associated protein 2 [Source:VGNC Symbol;Acc:VGNC:70548]	4.236239673	0.007938922	0.03352918
ENSMMUG00000057552	hematopoietic SH2 domain containing [Source:NCBI gene;Acc:719440]	4.242190689	0.003090203	0.015716509
ENSMMUG00000003363	Kruppel like factor 3 [Source:VGNC Symbol;Acc:VGNC:73840]	4.24366298	0.00959633	0.038804419
ENSMMUG00000003926	BCL2 like 12 [Source:NCBI gene;Acc:718981]	4.250095604	0.007620533	0.032552537
ENSMMUG00000037426	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	4.299138171	0.009774456	0.039384627
ENSMMUG00000051645		4.316919383	0.002368668	0.01275971
ENSMMUG00000056905		4.32667377	0.010243413	0.040841697
ENSMMUG00000000480	KIAA1324 like [Source:VGNC Symbol;Acc:VGNC:73882]	4.343218708	0.001600492	0.009266769
ENSMMUG00000056796	NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]	4.346849689	0.000347113	0.002600463
ENSMMUG00000058534		4.348860337	6.32E-07	1.06E-05
ENSMMUG00000063346		4.364703201	0.005804583	0.026233229
ENSMMUG00000064324		4.36660222	0.002471186	0.013156202
ENSMMUG00000051037		4.415052204	2.00E-08	4.70E-07
ENSMMUG00000020854	C-type lectin domain family 4 member F [Source:VGNC Symbol;Acc:VGNC:71349]	4.424005605	0.011006255	0.042935096
ENSMMUG00000059087		4.433324289	0.000258583	0.002026937
ENSMMUG00000061298		4.453848244	0.006476589	0.028567136
ENSMMUG00000015246	TBC1 domain family member 9 [Source:VGNC Symbol;Acc:VGNC:78193]	4.461133951	0.006049498	0.027090405
ENSMMUG00000064401		4.475616737	0.00407652	0.019689172
ENSMMUG00000055973	phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]	4.499975061	0.000137165	0.001192418
ENSMMUG00000003400	baculoviral IAP repeat containing 2 [Source:NCBI gene;Acc:702592]	4.517292094	2.54E-13	1.69E-11
ENSMMUG00000010967	tripartite motif family like 2 [Source:VGNC Symbol;Acc:VGNC:79603]	4.521954862	0.005988844	0.026886511
ENSMMUG00000054816	interleukin 1 receptor associated kinase 3 [Source:NCBI gene;Acc:717845]	4.529025524	0.002675433	0.014062576
ENSMMUG00000053333	acetylserotonin O-methyltransferase like [Source:NCBI gene;Acc:106995142]	4.5436491	0.005127653	0.023779053
ENSMMUG00000035653	small Cajal body-specific RNA 18 [Source:HGNC Symbol;Acc:HGNC:32559]	4.553092685	0.005727685	0.02600081
ENSMMUG00000051972	zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]	4.566591576	2.11E-07	3.95E-06
ENSMMUG00000004761	Cbl proto-oncogene [Source:VGNC Symbol;Acc:VGNC:70554]	4.576105758	0.005604761	0.025586336
ENSMMUG00000049508		4.580996631	7.49E-05	0.000708886
ENSMMUG00000007688	angiominin [Source:VGNC Symbol;Acc:VGNC:69627]	4.634867096	0.002760124	0.014361394
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	4.682851073	1.93E-10	7.17E-09
ENSMMUG00000009957	spermatogenesis associated 25 [Source:VGNC Symbol;Acc:VGNC:77928]	4.69122217	0.000931709	0.005933688
ENSMMUG00000049455	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.695746851	0.002008622	0.01113013
ENSMMUG00000029883	olfactory receptor, family 2, subfamily J, member 3 [Source:NCBI gene;Acc:708943]	4.703754409	0.000905736	0.00579705
ENSMMUG00000026243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	4.769555995	0.003526584	0.0175165
ENSMMUG00000062296	potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]	4.776375531	0.000560855	0.003951597
ENSMMUG00000048215		4.799526742	3.08E-24	1.67E-21
ENSMMUG00000064341	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	4.827088806	0.002165954	0.011834726
ENSMMUG00000008784	lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]	4.85415091	0.002400604	0.01287413
ENSMMUG00000061603		4.861370795	0.000906118	0.00579705
ENSMMUG00000056342	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.861657093	0.001413353	0.008362016
ENSMMUG00000058700	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.908934513	0.000943764	0.005992845
ENSMMUG00000016737	contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]	4.997301739	0.000706913	0.004789234
ENSMMUG00000005552	PAF1 homolog, Paf1/RNA polymerase II complex component [Source:VGNC Symbol;Acc:VGNC:81492]	5.039866421	0.000252588	0.001990499
ENSMMUG00000049479		5.048129759	0.000721531	0.004866963
ENSMMUG00000057219	tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]	5.121056153	9.83E-06	0.000122403
ENSMMUG00000019704	WD repeat domain 62 [Source:NCBI gene;Acc:719053]	5.146351771	0.002116793	0.011610742
ENSMMUG00000056109	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.166016441	0.001879622	0.010539308
ENSMMUG00000028000	Y RNA [Source:RFAM;Acc:RF00019]	5.230633034	0.000209552	0.001699157

ENSMMUG00000057095		5.256074651	6.94E-05	0.000663864
ENSMMUG00000003074	plexin B1 [Source:VGNC Symbol;Acc:VGNC:76187]	5.420705682	0.000439394	0.003198894
ENSMMUG00000012039	cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]	5.422937506	9.21E-06	0.000115196
ENSMMUG00000018743	ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]	5.511563641	2.06E-05	0.000230752
ENSMMUG00000013651	kinesin family member 6 [Source:VGNC Symbol;Acc:VGNC:73873]	5.611398968	0.000241076	0.001920277
ENSMMUG00000019369	pleckstrin homology and RhoGEF domain containing G2 [Source:VGNC Symbol;Acc:VGNC:76133]	5.678231278	1.83E-07	3.46E-06
ENSMMUG00000022282	collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]	5.698453855	7.51E-05	0.000709568
ENSMMUG00000014032	proline rich 36 [Source:NCBI gene;Acc:710443]	5.700422061	1.74E-29	2.10E-26
ENSMMUG00000016191	ATP binding cassette subfamily A member 13 [Source:VGNC Symbol;Acc:VGNC:69402]	5.706938687	2.56E-05	0.000281649
ENSMMUG00000048395	chromobox 6 [Source:NCBI gene;Acc:702133]	5.815094333	1.05E-07	2.08E-06
ENSMMUG00000053406		5.840747148	1.48E-05	0.000173273
ENSMMUG00000021447	TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]	5.886808375	0.000252648	0.001990499
ENSMMUG00000005554	mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]	6.222314149	8.88E-77	9.62E-73
ENSMMUG00000038702	ZFP36 ring finger protein [Source:NCBI gene;Acc:722000]	6.294265209	1.74E-06	2.61E-05
ENSMMUG00000003005	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]	6.313052179	1.90E-06	2.78E-05
ENSMMUG00000057785		6.392274255	6.61E-09	1.71E-07
ENSMMUG00000049298	cholecystokinin A receptor [Source:NCBI gene;Acc:694742]	6.936551288	4.54E-08	9.83E-07

SD 2 vs. Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000059241		6.914992229	3.51E-07	1.08E-05
ENSMMUG00000063345		6.009652857	1.95E-05	0.000373092
ENSMMUG0000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	5.926546819	5.12E-05	0.000844355
ENSMMUG00000060836		5.680582698	0.000388079	0.004620294
ENSMMUG00000061408		5.431283254	0.000304551	0.003777336
ENSMMUG00000002755	kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]	4.917727029	0.001061741	0.010450489
ENSMMUG00000055207		4.872573616	0.000154747	0.002180917
ENSMMUG00000021332	carboxypeptidase X, M14 family member 1 [Source:VGNC Symbol;Acc:VGNC:71413]	4.857586169	0.000360749	0.004343775
ENSMMUG00000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-4.80034398	0.001300792	0.012165838
ENSMMUG00000022562	interleukin 1 receptor accessory protein [Source:VGNC Symbol;Acc:VGNC:73718]	4.784400686	0.000163991	0.002283221
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	4.664868741	0.000232383	0.003016385
ENSMMUG00000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	4.488159079	3.57E-05	0.000623755
ENSMMUG00000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	4.467567052	3.84E-05	0.000659804
ENSMMUG00000019815	transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]	4.363200205	5.14E-06	0.000120344
ENSMMUG00000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	4.202605729	0.000165323	0.002291369
ENSMMUG00000052929		4.170399096	9.17E-08	3.47E-06
ENSMMUG00000045446		4.117102872	0.002490422	0.020175491
ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]	4.069445417	3.63E-05	0.000633125
ENSMMUG00000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	4.014818549	9.81E-28	1.13E-24
ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]	3.936521825	0.000681524	0.007259335
ENSMMUG00000006547	ATPase H+ transporting V0 subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]	3.889134156	0.005529582	0.036902644
ENSMMUG00000026876	mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]	3.860215324	0.006755061	0.042726342
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	3.859772161	2.19E-25	2.02E-22
ENSMMUG00000052605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.806132527	0.00081245	0.00841055
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	-3.80144893	1.02E-07	3.82E-06
ENSMMUG00000062793		3.756312935	1.02E-19	3.92E-17
ENSMMUG00000039317	cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]	3.626168801	3.03E-05	0.000543994
ENSMMUG00000052535		3.616857536	0.00036182	0.004347038

ENSMMUG00000055809		-	3.589727293	0.000126039	0.001829554
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	-	3.541312703	3.05E-15	5.29E-13
ENSMMUG000000054315		-	3.520996534	0.00068252	0.007261539
ENSMMUG00000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	-	3.489860378	0.00164222	0.014532069
ENSMMUG00000018565	ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]	-	3.470998617	0.0006811	0.007259335
ENSMMUG000000056790		-	3.418293016	4.91E-07	1.47E-05
ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	-	-3.38204486	0.000156531	0.002199323
ENSMMUG000000047324	casein alpha s1 [Source:HGNC Symbol;Acc:HGNC:2445]	-	-3.35760198	0.006698089	0.042535405
ENSMMUG000000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	-	3.350334588	1.71E-06	4.40E-05
ENSMMUG000000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	-	-3.31553424	1.74E-09	1.11E-07
ENSMMUG000000020926	syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]	-	-3.294844	0.001667931	0.014687159
ENSMMUG000000051115		-	-3.28141809	3.00E-06	7.53E-05
ENSMMUG000000060346		-	3.279692045	1.97E-06	5.05E-05
ENSMMUG000000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	-	3.251089729	8.43E-11	6.58E-09
ENSMMUG000000015202		-	3.247464295	0.00387877	0.028430831
ENSMMUG000000010508	carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]	-	3.246897519	0.000926108	0.009365899
ENSMMUG000000057031		-	-3.22729072	0.003161364	0.024285504
ENSMMUG000000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]	-	3.221887574	1.51E-07	5.29E-06
ENSMMUG000000010543	PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]	-	3.212130953	0.003118274	0.024014626
ENSMMUG000000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	-	-3.20816153	5.96E-06	0.000133892
ENSMMUG000000058603		-	3.185061127	0.001673266	0.014707804
ENSMMUG000000015167	DIS3 like 3'-5' exoribonuclease 2 [Source:VGNC Symbol;Acc:VGNC:71793]	-	3.181941904	0.004497268	0.031642472
ENSMMUG000000060892		-	3.103596114	8.14E-30	1.10E-26
ENSMMUG000000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	-	3.102499793	3.40E-10	2.41E-08
ENSMMUG000000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]	-	3.095123785	8.03E-13	8.91E-11
ENSMMUG000000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	-	-3.06827706	0.001754211	0.015244577
ENSMMUG0000000052682		-	3.007849188	3.92E-05	0.000669851
ENSMMUG0000000051271		-	3.004891565	1.13E-05	0.000235951
ENSMMUG000000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	-	2.995964321	3.29E-15	5.51E-13
ENSMMUG000000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	-	2.986041407	8.06E-09	4.24E-07
ENSMMUG0000000055229		-	2.957600217	4.49E-09	2.63E-07
ENSMMUG000000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	-	2.955856843	8.96E-08	3.41E-06

ENSMMUG0000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	-	2.940668265	1.45E-12	1.52E-10
ENSMMUG00000060278	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.911655247	0.001605837	0.014278765
ENSMMUG0000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	-	2.903573096	7.49E-07	2.14E-05
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	-	2.861013098	0.000286725	0.003604827
ENSMMUG00000010050	small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]	-	2.841825706	7.22E-06	0.00015901
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	-	-2.83481363	3.75E-11	3.06E-09
ENSMMUG00000007159	tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]	-	2.811992679	3.97E-05	0.000677972
ENSMMUG00000011469	germ cell nuclear acidic peptidase [Source:VGNC Symbol;Acc:VGNC:72724]	-	2.800728604	0.003053769	0.023586575
ENSMMUG00000015002	chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]	-	2.760566484	0.000759193	0.007966364
ENSMMUG00000060744		-	2.760423534	1.41E-05	0.000283187
ENSMMUG00000057073		-	2.757886211	0.001315115	0.012268745
ENSMMUG00000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	-	2.707681155	1.29E-05	0.000262303
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]	-	2.705315249	2.33E-16	4.99E-14
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	-	2.704577347	7.90E-06	0.000172316
ENSMMUG00000016093	adenosine deaminase RNA specific [Source:VGNC Symbol;Acc:VGNC:69502]	-	2.679946655	1.15E-14	1.77E-12
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	-	2.661142863	0.008097648	0.049320088
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]	-	2.659746788	0.001714357	0.014940556
ENSMMUG00000053577		-	2.659445722	0.000356787	0.004314729
ENSMMUG00000052642	protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]	-	2.638373141	0.001315794	0.012268745
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	-	2.621015326	3.40E-08	1.44E-06
ENSMMUG00000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]	-	2.614399333	0.003005727	0.023377712
ENSMMUG00000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	-	2.596573781	0.006504234	0.041626195
ENSMMUG00000008228	unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]	-	2.594305799	0.001139339	0.011014012
ENSMMUG00000000972	tyrosine kinase non receptor 2 [Source:VGNC Symbol;Acc:VGNC:79192]	-	2.581431515	1.64E-05	0.00032202
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	-	-2.56931991	5.18E-06	0.000120689
ENSMMUG00000013501	CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]	-	2.552724344	0.003289014	0.025018986
ENSMMUG00000065099		-	2.544842875	7.15E-07	2.05E-05
ENSMMUG00000057501		-	2.540231119	1.16E-05	0.000240214
ENSMMUG00000047542	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	2.534925621	0.00713823	0.044678745

ENSMMUG0000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	-	-	-
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	2.522241474	2.63E-07	8.41E-06
		-2.51197725	2.67E-08	1.20E-06
		-	-	-
ENSMMUG00000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	2.492354139	0.000112341	0.001648917
ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]	-2.48887757	0.004703183	0.032765629
		-	-	-
ENSMMUG00000007398	potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]	2.488105013	9.63E-06	0.000202883
		-	-	-
ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]	2.484272657	9.32E-06	0.000197191
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	-2.48005459	1.29E-05	0.000262107
		-	-	-
ENSMMUG00000061973		2.478322234	1.38E-12	1.46E-10
		-	-	-
ENSMMUG00000013029	surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]	2.469403127	8.95E-05	0.001360628
		-	-	-
ENSMMUG00000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.464494102	1.55E-05	0.000305681
		-	-	-
ENSMMUG00000059019		2.435258527	6.67E-07	1.94E-05
		-	-	-
ENSMMUG00000017378	steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]	2.431687797	0.003816584	0.028009584
		-	-	-
ENSMMUG00000057276		2.422562353	0.000583414	0.006378415
		-	-	-
ENSMMUG00000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	2.421301779	8.59E-05	0.001313113
		-	-	-
ENSMMUG00000055117		2.421117476	0.004312989	0.030626884
		-	-	-
ENSMMUG00000012480	REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]	2.419577026	8.16E-05	0.001255058
		-	-	-
ENSMMUG00000010127	chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]	2.419399832	0.000547294	0.006103643
		-	-	-
ENSMMUG00000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	2.387197382	1.68E-09	1.09E-07
		-	-	-
ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]	2.379058912	0.001231237	0.011689448
		-	-	-
ENSMMUG00000055585		2.357049564	0.000178832	0.002449087
		-	-	-
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	2.331943571	6.86E-06	0.00015136
		-	-	-
ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	2.323616266	6.34E-05	0.001010947
		-	-	-
ENSMMUG00000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	2.302314165	2.58E-08	1.18E-06
		-	-	-
ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	2.289684307	0.005689179	0.03761316
		-	-	-
ENSMMUG00000001225	calneuron 1 [Source:VGNC Symbol;Acc:VGNC:82078]	2.271295909	0.000239591	0.003092502
		-	-	-
ENSMMUG00000056363		2.265762102	0.00813449	0.049457679
		-	-	-
ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]	2.249665848	4.35E-05	0.000733887
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	-2.23801973	2.42E-05	0.000446859
		-	-	-
ENSMMUG00000059773	methyltransferase like 11B [Source:NCBI gene;Acc:705503]	2.233172377	0.000471751	0.005440507
		-	-	-
ENSMMUG00000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	2.232319657	0.007436047	0.046021477

ENSMMUG00000018031	solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]	-	2.231700244	0.000514781	0.005834398
ENSMMUG00000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	-	2.218412517	1.44E-07	5.09E-06
ENSMMUG00000056045		-	2.211934002	2.53E-05	0.000462195
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]	-	2.200141759	0.000188229	0.002539994
ENSMMUG00000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	-	2.172608024	1.11E-06	3.02E-05
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	-	2.171931881	2.22E-05	0.000417042
ENSMMUG00000012481	importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]	-	2.170556154	2.86E-07	9.03E-06
ENSMMUG00000005204	VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]	-	2.147562042	0.000873066	0.008927585
ENSMMUG00000021280	leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]	-	2.133060785	0.000517368	0.005856509
ENSMMUG00000050864		-	2.129748248	1.31E-06	3.50E-05
ENSMMUG00000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	-	2.128880151	7.09E-19	2.33E-16
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	-	2.115499327	7.25E-09	3.93E-07
ENSMMUG00000016610	CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]	-	2.112513121	0.000444951	0.005183403
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	-	2.111996868	2.65E-07	8.42E-06
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	-	2.110755126	1.05E-12	1.13E-10
ENSMMUG00000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.107083095	1.78E-05	0.00034484
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	-	2.097370971	7.72E-06	0.000169176
ENSMMUG00000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	-	-2.09117629	0.001675518	0.014713544
ENSMMUG00000051482		-	2.080005656	0.000256571	0.00327039
ENSMMUG00000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	-	2.073273423	6.04E-09	3.37E-07
ENSMMUG00000021670	solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]	-	2.071751672	7.55E-05	0.00117156
ENSMMUG00000007313	histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]	-	2.068837687	0.00139579	0.012819813
ENSMMUG00000009493	family with sequence similarity 120A [Source:NCBI gene;Acc:717459]	-	2.065854905	0.00019986	0.00265031
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	-	2.055523266	6.29E-06	0.000140124
ENSMMUG00000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	-	2.036249189	0.000148911	0.002124693
ENSMMUG00000038661		-	2.031097628	1.23E-05	0.000252435
ENSMMUG00000057859		-	2.025294262	0.002316389	0.019050691
ENSMMUG00000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]	-	2.020875178	0.00366549	0.027095182
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]	-	1.992013735	2.36E-05	0.000441078

ENSMMUG0000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	-	1.985316185	0.00057905	0.006372501
ENSMMUG00000020175	mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]	-	1.979506935	0.001236059	0.011703143
ENSMMUG00000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]	-	-1.97726082	9.52E-05	0.001424168
ENSMMUG000000053721		-	1.958235599	0.005922243	0.038819373
ENSMMUG00000012110	smoothened, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	-	1.952322612	9.27E-05	0.001399179
ENSMMUG00000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-	1.952068277	1.62E-07	5.57E-06
ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	-	1.950139761	4.26E-06	0.000101949
ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]	-	1.929008889	0.001682512	0.014746815
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	-	1.923150895	1.04E-07	3.88E-06
ENSMMUG00000019831	neurobeachin [Source:NCBI gene;Acc:714386]	-	-1.92066539	0.008134308	0.049457679
ENSMMUG00000002657	olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]	-	1.887955922	0.004519297	0.031729016
ENSMMUG000000059575		-	1.887945265	4.79E-08	1.94E-06
ENSMMUG000000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	-	1.880291483	9.46E-10	6.36E-08
ENSMMUG00000002809	unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]	-	1.876900343	0.00187691	0.016113061
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	-	1.851065592	0.000136207	0.001955555
ENSMMUG00000003260		-	1.850667984	5.47E-06	0.000125808
ENSMMUG000000053384		-	1.848093647	2.19E-09	1.36E-07
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]	-	-1.84446904	1.52E-12	1.57E-10
ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]	-	1.842714058	0.006599176	0.042087468
ENSMMUG000000062527		-	1.835934675	2.18E-08	1.01E-06
ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	-	1.835365858	7.22E-10	4.99E-08
ENSMMUG000000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	-	1.821476243	3.34E-05	0.000591492
ENSMMUG00000007411	integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]	-	1.820946796	9.48E-10	6.36E-08
ENSMMUG000000063298		-	1.810708432	0.004097534	0.029529842
ENSMMUG000000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	-	1.808493973	8.90E-06	0.000190043
ENSMMUG000000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]	-	1.807730579	3.42E-06	8.47E-05
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	-	1.807686136	0.00010525	0.001557264
ENSMMUG00000006682	chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]	-	1.807535062	0.00436964	0.030971509
ENSMMUG000000056116		-	1.805856121	7.88E-05	0.001216593

ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	-	1.805654354	0.000227883	0.002962162
ENSMMUG00000040771		-	-1.80102915	0.000909221	0.009235717
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	-	1.788174527	0.000584757	0.006378415
ENSMMUG00000004791	pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]	-	1.780173902	0.002113627	0.017796627
ENSMMUG00000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	-	1.775488846	2.41E-14	3.58E-12
ENSMMUG00000064804		-	1.762225897	0.000991489	0.009918125
ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	-	1.759134092	0.000355327	0.004302732
ENSMMUG00000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]	-	1.755136152	5.78E-06	0.000131005
ENSMMUG00000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]	-	1.740290797	8.96E-06	0.000190984
ENSMMUG00000015143	F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]	-	1.738476915	0.00179615	0.01556494
ENSMMUG00000006731	CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]	-	1.732488559	0.000852173	0.008723638
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	-	-1.73246422	6.96E-05	0.001088622
ENSMMUG00000052830		-	-1.72476423	0.004191484	0.029972204
ENSMMUG00000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	-	1.722086431	3.56E-06	8.77E-05
ENSMMUG00000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	-	1.721979406	2.40E-05	0.000444143
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	-	1.718495067	2.62E-07	8.41E-06
ENSMMUG00000022762	OMA1 zinc metalloproteinase [Source:VGNC Symbol;Acc:VGNC:75485]	-	1.717661149	0.00227615	0.018770079
ENSMMUG00000001121	zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]	-	1.704847699	0.002696036	0.021556574
ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	-	-1.70202257	5.55E-06	0.000126827
ENSMMUG00000057143	transmembrane protein 127 [Source:NCBI gene;Acc:705069]	-	1.698560415	0.002758385	0.021902862
ENSMMUG00000052019		-	1.695404714	0.003028764	0.023482487
ENSMMUG00000055477		-	1.688067129	1.30E-05	0.000263088
ENSMMUG00000062974		-	1.684287057	6.49E-05	0.001030166
ENSMMUG00000007325	Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]	-	1.681275853	0.005586926	0.037097026
ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]	-	-1.66954713	9.84E-05	0.001463666
ENSMMUG00000008009	family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]	-	1.665822278	0.001569418	0.014049956
ENSMMUG00000011410	nuclear receptor subfamily 4 group A member 3 [Source:VGNC Symbol;Acc:VGNC:75519]	-	1.664876008	0.001603958	0.014278765
ENSMMUG00000020993	cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]	-	1.664166288	0.002699276	0.021563745
ENSMMUG00000020910	nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]	-	1.663805713	0.001134531	0.010979066
ENSMMUG00000057494	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]	-	1.653887253	0.004213201	0.030080749

ENSMMUG00000050065		-	1.648463122	0.00576485	0.038004234
ENSMMUG00000022982	IQ motif containing GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:73756]	-	1.647975037	0.007956276	0.048749404
ENSMMUG00000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	-	1.635944894	0.001285596	0.012053726
ENSMMUG00000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]	-	1.631887629	1.74E-05	0.000339059
ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]	-	1.631675616	0.000724156	0.007651441
ENSMMUG00000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	-	1.625611086	8.16E-11	6.42E-09
ENSMMUG00000020540	NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]	-	1.620390946	0.005051179	0.034510764
ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]	-	-1.62022463	0.000147804	0.002112173
ENSMMUG000000062140		-	1.616977672	0.00728096	0.045244213
ENSMMUG00000020184	carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]	-	1.614253866	0.00531063	0.03598949
ENSMMUG00000021282	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]	-	1.608692496	0.005444232	0.036623915
ENSMMUG00000007424	nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]	-	1.594958761	3.66E-09	2.16E-07
ENSMMUG00000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	-	1.587601972	0.000494869	0.005643471
ENSMMUG00000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	-	1.582436173	0.001709848	0.014915386
ENSMMUG00000049948		-	1.580396119	0.000488606	0.005585889
ENSMMUG00000017246	lipxygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	-	1.580015705	3.22E-05	0.000571339
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	-	1.578673971	5.45E-05	0.000893231
ENSMMUG00000008974	Fc receptor like 5 [Source:NCBI gene;Acc:718771]	-	1.575873653	6.40E-08	2.50E-06
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	-	1.575388272	8.56E-08	3.27E-06
ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	-	1.562551535	5.78E-05	0.000934849
ENSMMUG00000060042		-	1.561369647	0.006889296	0.043396434
ENSMMUG00000013848	fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]	-	1.559042564	0.002827904	0.022300944
ENSMMUG00000004709	proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]	-	1.550712578	0.001055837	0.01041465
ENSMMUG00000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	-	1.546717053	0.00052315	0.005907423
ENSMMUG00000049859		-	-1.54032373	4.67E-05	0.000779287
ENSMMUG00000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]	-	1.539732698	0.002585244	0.020797204
ENSMMUG00000004178	NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]	-	1.539310357	0.001211647	0.011543258
ENSMMUG00000022680	alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]	-	-1.53754088	0.000604209	0.006511171
ENSMMUG00000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	-	1.536887845	0.000549416	0.006114002

ENSMMUG00000020804	transmembrane protein 132B [Source:NCBI gene;Acc:707118]	-	1.533836782	0.006093452	0.039715327
ENSMMUG00000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	-	1.527300809	0.00371511	0.027374965
ENSMMUG00000017191	zinc finger protein 546 [Source:VGNC Symbol;Acc:VGNC:79732]	-	1.519888825	0.006164859	0.04001072
ENSMMUG00000005801	glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]	-	1.516481947	0.00049807	0.005672946
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	-	-1.51501756	3.37E-05	0.000595911
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	-	-1.51090434	1.41E-06	3.75E-05
ENSMMUG00000001940	NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]	-	1.505737495	0.002866196	0.022544962
ENSMMUG00000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	-	1.501252525	4.26E-06	0.000101949
ENSMMUG000000054711		-	1.499831322	0.001545646	0.013891189
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	-	1.499339754	0.000587084	0.006378911
ENSMMUG00000005028	phosphodiesterase 4C [Source:NCBI gene;Acc:720171]	-	1.497396762	0.003655462	0.027064535
ENSMMUG000000064237		-	1.497183111	0.002894203	0.022661153
ENSMMUG00000002183	oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]	-	1.491574262	0.000781606	0.008127823
ENSMMUG00000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	-	1.490276227	0.00161804	0.014373379
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	-	1.488090118	0.00154326	0.013883307
ENSMMUG00000017414	calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]	-	-1.48688178	0.004081276	0.029458808
ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	-	-1.48352413	0.001261064	0.011878785
ENSMMUG000000062443		-	1.471215088	0.003194188	0.024467932
ENSMMUG00000018058	ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]	-	1.464847301	0.001251607	0.011801779
ENSMMUG00000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	-	1.461408104	8.31E-06	0.000179478
ENSMMUG000000050239		-	1.460498298	0.002895742	0.022661153
ENSMMUG000000038447		-	1.456956517	0.000737673	0.007785326
ENSMMUG00000011702	tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]	-	1.455221251	0.005854632	0.038461691
ENSMMUG00000007620	transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]	-	1.452366292	0.006087524	0.039704809
ENSMMUG00000007561	zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]	-	1.451123938	0.002913036	0.022721864
ENSMMUG00000018057	uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]	-	1.448739056	0.005775368	0.03804632
ENSMMUG00000012101	synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]	-	1.446544696	0.007466982	0.046150864
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	-	1.445881209	0.000689069	0.007305878
ENSMMUG000000054116	T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]	-	1.445506423	0.00205803	0.017472372
ENSMMUG00000016052	seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]	-	1.443008383	0.002191119	0.018232252

ENSMMUG00000054064		-	1.440057349	1.07E-06	2.93E-05
ENSMMUG0000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]	-	1.435545586	0.00017136	0.002360822
ENSMMUG00000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]	-	1.429755485	0.000354137	0.004293967
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]	-	1.420517024	5.80E-05	0.000937104
ENSMMUG00000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]	-	1.420076929	0.00010601	0.001563476
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	-	1.417721186	4.51E-05	0.000755492
ENSMMUG00000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	-	1.414647508	0.006904931	0.043435463
ENSMMUG00000058942		-	1.413859908	7.44E-05	0.001158595
ENSMMUG00000061892		-	1.411439624	0.000192123	0.002577727
ENSMMUG00000000983	aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]	-	1.407743834	0.00198269	0.016942148
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	-	1.407343144	1.52E-05	0.000299606
ENSMMUG00000023137	zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]	-	1.405975653	0.004438807	0.031352695
ENSMMUG00000007283	3-hydroxyisobutyryl-CoA hydrolase [Source:NCBI gene;Acc:713951]	-	1.403641431	0.004254399	0.030327836
ENSMMUG00000050177		-	1.398826531	0.004864063	0.033581373
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	-	1.398629625	5.61E-06	0.000127722
ENSMMUG00000061239		-	1.390500051	2.35E-06	5.99E-05
ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	-	1.380002621	3.04E-06	7.61E-05
ENSMMUG00000064529		-	1.379698777	2.36E-05	0.000440717
ENSMMUG00000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	-	1.374480915	7.72E-08	2.97E-06
ENSMMUG00000006187	angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]	-	1.366240413	0.002094678	0.017695047
ENSMMUG00000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	-	1.365568497	1.52E-06	3.96E-05
ENSMMUG00000023679	tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]	-	1.359656932	0.000208711	0.002747878
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	-	1.358365099	0.000445915	0.005188055
ENSMMUG00000056687		-	1.357101512	0.002412065	0.019661854
ENSMMUG00000013513	sex hormone binding globulin [Source:VGNC Symbol;Acc:VGNC:77208]	-	-1.35642789	0.001667367	0.014687159
ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]	-	1.354897535	0.008169254	0.049624847
ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]	-	1.349290323	0.000172298	0.002363127
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	-	1.347204163	7.45E-05	0.001158595
ENSMMUG00000061002		-	1.346926991	0.00180173	0.01559861

ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]	-	1.345577668	0.000187695	0.002539994
ENSMMUG00000040764	alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]	-	1.336108875	0.005553834	0.037010814
ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	-	1.335722505	0.001036058	0.010252519
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	-	1.335678015	0.000423134	0.004973314
ENSMMUG00000007246	myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]	-	-1.33507482	0.000851884	0.008723638
ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]	-	1.333600281	0.004802768	0.033283035
ENSMMUG00000010627	apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]	-	1.329399138	0.000941669	0.009512818
ENSMMUG00000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.326352628	0.004557438	0.031870898
ENSMMUG00000065031		-	1.318233015	0.000284782	0.003585288
ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]	-	1.315490572	0.005503091	0.036832686
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	-	1.311894507	5.65E-05	0.000918356
ENSMMUG00000012587	zinc finger protein 69 [Source:NCBI gene;Acc:717030]	-	1.309611731	1.70E-05	0.000332133
ENSMMUG00000002894	dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]	-	1.309314857	0.005331184	0.036075652
ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]	-	-1.30689801	0.006830854	0.043087282
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	-	-1.3022078	0.001408256	0.012908544
ENSMMUG00000056306		-	-1.28944627	0.001340008	0.012456657
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]	-	1.287823353	0.000425957	0.005000106
ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	-	1.284425483	0.000151253	0.002148124
ENSMMUG00000044473		-	1.281556581	0.001822703	0.015750552
ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]	-	1.280174431	0.006216977	0.040263786
ENSMMUG00000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]	-	1.278846045	0.000153308	0.002167266
ENSMMUG00000003261	BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]	-	1.276980914	0.000470488	0.005432753
ENSMMUG00000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	-	1.276836033	1.17E-07	4.30E-06
ENSMMUG00000049563		-	1.271582812	0.006392349	0.040995672
ENSMMUG00000018746	FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]	-	1.270549283	0.003245398	0.024765673
ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]	-	1.261137712	0.002782926	0.022059661
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	-	1.259856387	2.52E-05	0.000461916
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	-	1.254955254	0.000969306	0.009738558
ENSMMUG00000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	-	-1.25071458	0.000588527	0.006387044
ENSMMUG00000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]	-	1.246439025	0.000768629	0.00804743

ENSMMUG00000017819	putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]	-	1.246253879	0.002731949	0.021730445
ENSMMUG00000021691	spastin [Source:VGNC Symbol;Acc:VGNC:77857]	-	1.241904956	0.00784791	0.048213827
ENSMMUG00000007256	splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]	-	-1.23576112	0.003892075	0.028472789
ENSMMUG00000017276	nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]	-	1.232287244	0.000257279	0.003274883
ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	-	1.230639098	0.000585563	0.006378415
ENSMMUG00000009038	titin [Source:NCBI gene;Acc:703527]	-	1.228566324	0.005442736	0.036623915
ENSMMUG00000002638	WD repeat domain 18 [Source:VGNC Symbol;Acc:VGNC:79103]	-	1.225936216	0.006582668	0.042040455
ENSMMUG00000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	-	1.225748709	0.000194136	0.002589319
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	-	-1.21933927	0.000410896	0.004860506
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	-	1.219009988	0.003325245	0.025240592
ENSMMUG00000044214		-	1.215726669	0.000111468	0.001638715
ENSMMUG00000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]	-	1.198515798	0.003051556	0.023586575
ENSMMUG00000054590		-	1.187919613	9.52E-06	0.00020101
ENSMMUG00000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]	-	1.181996749	0.00352026	0.026317591
ENSMMUG00000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	-	1.180403111	0.000197106	0.002625133
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]	-	1.175429209	0.001034331	0.010246444
ENSMMUG00000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	-	1.172082285	1.84E-05	0.000355941
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]	-	1.170744096	2.78E-05	0.00050193
ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]	-	1.169470355	0.00801889	0.048937565
ENSMMUG00000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	-	-1.16597562	4.68E-05	0.000779891
ENSMMUG00000003726	protein tyrosine phosphatase non-receptor type 13 [Source:VGNC Symbol;Acc:VGNC:76599]	-	1.163470469	0.007364855	0.045611547
ENSMMUG00000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]	-	1.159683118	9.57E-07	2.66E-05
ENSMMUG00000044759		-	1.159288988	0.001278766	0.01200866
ENSMMUG00000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]	-	-1.15858936	0.005630532	0.037359616
ENSMMUG00000012129	tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]	-	1.157454859	0.001078526	0.010581739
ENSMMUG00000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]	-	1.148811552	0.004774398	0.033136335
ENSMMUG00000023676	espin [Source:NCBI gene;Acc:722532]	-	1.147979665	8.94E-05	0.001360628
ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]	-	1.141463215	5.26E-05	0.00086274
ENSMMUG00000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	-	1.136565704	0.000181491	0.002478128
ENSMMUG00000015371	microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]	-	1.135489134	0.005584715	0.037097026

ENSMMUG00000052977	putative protein FAM106C [Source:NCBI gene;Acc:106994084]	-	1.130505024	0.003091686	0.023829801
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	-	1.127694849	0.001241668	0.011744161
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	-	1.125563033	0.000243512	0.003134323
ENSMMUG000000061815		-	1.120851794	0.000540678	0.006053358
ENSMMUG00000012338	G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]	-	1.120522343	0.001361236	0.012615769
ENSMMUG00000005463	bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]	-	1.118389796	0.003576845	0.026718917
ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]	-	1.112075645	0.00485797	0.033564486
ENSMMUG00000009519	WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]	-	1.111570745	0.001017131	0.010108702
ENSMMUG00000007765	Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]	-	1.108731256	3.70E-05	0.000639776
ENSMMUG00000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	-	1.107142318	0.003963617	0.028835708
ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]	-	-1.10067884	6.81E-06	0.000150648
ENSMMUG00000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]	-	1.097220091	0.000976253	0.009776343
ENSMMUG00000019977	myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]	-	1.096687677	0.004993697	0.034270688
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	-	1.095439967	5.66E-06	0.000128625
ENSMMUG00000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	-	-1.0951876	0.000622632	0.006670638
ENSMMUG000000042798		-	1.092409793	0.003386422	0.025503468
ENSMMUG00000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	-	1.091723024	0.001235066	0.011703143
ENSMMUG00000022056	DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]	-	1.090616824	0.001160209	0.011192244
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	-	1.090607092	0.000896399	0.009125619
ENSMMUG000000052676		-	1.090381669	0.003147283	0.024217765
ENSMMUG000000049749		-	1.090064334	0.00042074	0.004951494
ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	-	1.085472676	0.00670871	0.042550142
ENSMMUG000000053675		-	1.084535152	0.003354079	0.025363671
ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]	-	1.075643165	0.002159519	0.018083764
ENSMMUG000000061433		-	1.072307561	0.005283298	0.035901143
ENSMMUG000000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	-	1.071630784	0.000707119	0.007488631
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	-	1.071160882	5.59E-05	0.000909846
ENSMMUG000000059986		-	1.064148093	0.000438344	0.005125894
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	-	1.056886698	5.42E-06	0.000125033

ENSMMUG00000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	-	1.051257236	0.006723135	0.042612268
ENSMMUG00000055590		-	1.047263454	0.006137967	0.039864297
ENSMMUG00000004223	ring finger protein 10 [Source:VGNC Symbol;Acc:VGNC:76702]	-	1.043879838	0.000800866	0.008299962
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	-	1.037678033	0.007153552	0.04472428
ENSMMUG00000021169	translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]	-	1.037632242	0.00718266	0.04479408
ENSMMUG00000043809	caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]	-	-1.03559535	0.003888328	0.028468005
ENSMMUG00000064514	keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]	-	1.034714045	0.000975376	0.009776343
ENSMMUG00000040958	lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]	-	1.034093092	0.000301931	0.003764832
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	-	1.032156893	0.000950411	0.009579502
ENSMMUG00000051286		-	1.031735554	0.000686567	0.007287744
ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]	-	1.028915271	0.002780596	0.022059661
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]	-	1.027274684	0.002887675	0.02265582
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]	-	1.026008444	0.000578635	0.006372501
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	-	1.024705324	0.001690601	0.014789549
ENSMMUG00000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]	-	1.024156589	0.003519542	0.026317591
ENSMMUG00000058740		-	1.023745351	0.001549976	0.01391652
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	-	1.012398902	0.000172136	0.002363127
ENSMMUG00000022202	basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]	-	1.011180546	0.002426383	0.019761068
ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]	-	1.008046591	0.001633518	0.01449688
ENSMMUG00000021914	spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]	-	1.007177333	0.003487045	0.026132048
ENSMMUG00000052574		-	1.004151124	0.000472948	0.00544749
ENSMMUG00000046282		-	1.003499294	0.000591137	0.006407816
ENSMMUG00000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]	-	1.001324641	0.001194376	0.011426035
ENSMMUG00000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	-	-1.00093832	5.93E-05	0.000955463
ENSMMUG00000059327	NUS1 dehydrodolichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]	-	0.997058538	0.000586346	0.006378415
ENSMMUG00000012761	sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]	-	0.996689573	0.000509882	0.005786
ENSMMUG00000012463	DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]	-	0.996012996	0.000586	0.006378415
ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	-	0.995275165	0.000406652	0.004816494
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]	-	0.994194813	0.001603027	0.014278765

ENSMMUG00000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	-	0.992171755	0.000160582	0.002249369
ENSMMUG0000001995	chromosome 14 C11orf16 homolog [Source:NCBI gene;Acc:705319]	-	0.988883674	0.002012415	0.017132524
ENSMMUG00000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]	-	0.985620929	0.006518402	0.041687873
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]	-	0.985437684	3.00E-05	0.000540864
ENSMMUG00000058142		-	0.985096099	0.007254874	0.045143076
ENSMMUG00000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	0.981923604	0.001436426	0.013114517
ENSMMUG00000008713	myosin binding protein H like [Source:NCBI gene;Acc:698183]	-	-0.97735574	0.000780317	0.008123593
ENSMMUG00000014394	DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]	-	0.975806832	0.000308318	0.00381561
ENSMMUG00000023443	SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]	-	0.975569544	0.007160307	0.044736123
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	-	0.974127737	0.002588326	0.020803815
ENSMMUG00000049484		-	0.970906205	0.001098854	0.010702014
ENSMMUG00000022044	scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]	-	0.970786401	0.004658073	0.032500565
ENSMMUG00000063348		-	0.966008534	0.005189774	0.035405105
ENSMMUG00000003164	GATA zinc finger domain containing 2A [Source:NCBI gene;Acc:720361]	-	0.963087308	0.003679416	0.027176299
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	-	0.962744294	0.000448415	0.005203989
ENSMMUG00000002093	testis expressed 261 [Source:NCBI gene;Acc:703863]	-	-0.96213506	0.002913048	0.022721864
ENSMMUG00000022305	Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]	-	0.960434799	0.00120041	0.011459929
ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	-	0.959783513	0.002743691	0.021805
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	-	0.958129573	0.000152288	0.002156168
ENSMMUG00000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]	-	0.958021947	0.000401146	0.004763545
ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]	-	0.956654506	0.003597626	0.026788088
ENSMMUG00000051468	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.955633151	0.002095795	0.017695047
ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]	-	-0.95311262	2.40E-05	0.000444143
ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	-	0.952067693	0.003585699	0.026741641
ENSMMUG00000011675	zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]	-	0.949042607	0.006693235	0.042535405
ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]	-	0.947645551	0.005317718	0.036011007
ENSMMUG00000060439	schlafen family member 12 like [Source:NCBI gene;Acc:106992394]	-	0.945691181	0.007707176	0.047444241
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	-	0.940755037	0.002396734	0.019585266
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	-	0.938958177	0.00504821	0.034510764

ENSMMUG0000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	-	0.937696469	0.000419248	0.004940255
ENSMMUG0000005447	MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]	-	0.934981486	0.000296299	0.003709982
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	-	0.931501172	0.004258014	0.030330109
ENSMMUG00000010878	adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]	-	0.930247513	0.001842852	0.015879936
ENSMMUG00000006775	proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]	-	-0.9269884	0.005686076	0.03761316
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	-	0.924044232	0.002935198	0.022853326
ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]	-	0.923734719	0.005145217	0.035127173
ENSMMUG00000053298		-	0.910258916	0.005721465	0.03774526
ENSMMUG00000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]	-	0.906129244	0.00141103	0.012911219
ENSMMUG00000050907		-	0.890389474	0.005786318	0.038091189
ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]	-	0.884901761	0.006083256	0.039704809
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	-	0.883395308	0.005518976	0.036867199
ENSMMUG00000002310	zinc finger protein 577 [Source:VGNC Symbol;Acc:VGNC:79733]	-	-0.8816165	0.001303329	0.012177196
ENSMMUG00000016410	acyl-CoA binding domain containing 5 [Source:VGNC Symbol;Acc:VGNC:69509]	-	0.881209897	0.001164903	0.0112023
ENSMMUG00000057655		-	0.878557505	0.004903725	0.033779176
ENSMMUG00000018051	FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]	-	0.877626623	0.000207523	0.002740078
ENSMMUG00000054462		-	0.877527863	0.002611487	0.020935117
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	-	0.873036439	0.004708321	0.032776612
ENSMMUG00000051042		-	0.861296866	0.006114021	0.039764899
ENSMMUG00000049939		-	0.861106492	0.00103744	0.01025517
ENSMMUG00000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	-	0.854472225	0.002565233	0.020654277
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]	-	0.852219831	0.000232832	0.003017963
ENSMMUG00000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]	-	-0.85162615	0.001908435	0.01635319
ENSMMUG00000000443	arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]	-	0.850756378	0.004042203	0.029245595
ENSMMUG00000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	-	0.846464546	0.00259095	0.02080673
ENSMMUG00000012036	RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]	-	-0.84501057	0.001384102	0.01274204
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	-	0.836766289	0.000359677	0.004338283
ENSMMUG00000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	-	0.835334604	0.002411262	0.019661854
ENSMMUG00000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	-	0.831507446	0.00174048	0.015139548
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	-	0.829105078	0.003373774	0.025449872

ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	-	0.827815712	0.003905984	0.028506559
ENSMMUG00000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	-	0.826124501	0.001458017	0.01328528
ENSMMUG00000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	-	0.822371559	0.000580263	0.006372501
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	-	0.820125324	0.002056937	0.017472372
ENSMMUG00000010939	rhopilin Rho GTPase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76779]	-	0.819253906	0.001098856	0.010702014
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]	-	0.816781948	0.001439984	0.013133964
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	-	0.816023058	0.000358224	0.004326426
ENSMMUG00000006713	cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]	-	0.815306166	0.006701764	0.042535405
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]	-	0.807903832	0.006025849	0.039442308
ENSMMUG00000017725	eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]	-	0.806033974	0.000779631	0.008123593
ENSMMUG00000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]	-	0.802917551	0.006636506	0.042266966
ENSMMUG00000003051	COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]	-	0.800375447	0.000528359	0.005938424
ENSMMUG00000060822		-	0.798826703	0.004110716	0.029578513
ENSMMUG00000013093	uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]	-	0.790953481	0.000923693	0.009351759
ENSMMUG00000052496		-	-0.78920164	0.002715033	0.021670814
ENSMMUG00000021782	LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]	-	0.782629366	0.00286526	0.022544962
ENSMMUG00000008687	B cell linker [Source:VGNC Symbol;Acc:VGNC:70306]	-	0.782424616	0.004473405	0.031522777
ENSMMUG00000018738	alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]	-	-0.77927894	0.005234937	0.035660347
ENSMMUG00000007692	apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]	-	0.771573199	0.004526806	0.031729016
ENSMMUG00000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]	-	0.767756197	0.006235565	0.040299091
ENSMMUG00000038288	TMEM9 domain family member B [Source:NCBI gene;Acc:708447]	-	0.766854016	0.006023283	0.039442308
ENSMMUG00000008323	C-terminal binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71539]	-	0.753284254	0.001506937	0.013623123
ENSMMUG00000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]	-	-0.74728813	0.004109992	0.029578513
ENSMMUG00000015375	cadherin EGF LAG seven-pass G-type receptor 2 [Source:VGNC Symbol;Acc:VGNC:71149]	-	0.745336024	0.001677143	0.014713774
ENSMMUG00000013094	lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]	-	0.744522214	0.001007175	0.010032547
ENSMMUG00000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	-	-0.73746732	0.00429944	0.030577859
ENSMMUG00000005334	phospholipase C gamma 2 [Source:VGNC Symbol;Acc:VGNC:76170]	-	0.733882995	0.006105621	0.039764899
ENSMMUG00000008941	DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]	-	0.730461751	0.002533012	0.020430599
ENSMMUG00000006340	solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]	-	0.724588481	0.003659664	0.027073863
ENSMMUG00000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]	-	0.716670315	0.007265454	0.045178358

ENSMMUG00000019238	RNA binding protein with serine rich domain 1 [Source:NCBI gene;Acc:695816]	0.699324543	0.00698538	0.043851604
ENSMMUG00000000630	ring finger and CCCH-type domains 1 [Source:VGNC Symbol;Acc:VGNC:76861]	0.690614894	0.006074287	0.039674708
ENSMMUG00000008423	septin 4 [Source:NCBI gene;Acc:714724]	0.686199854	0.00338416	0.025503468
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	-0.68225893	0.003638257	0.026980561
ENSMMUG00000047974	aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]	0.672381735	0.002724124	0.021706086
ENSMMUG00000020436	potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]	0.667266198	0.005708797	0.037715766
ENSMMUG00000001228	LLGL scribble cell polarity complex component 2 [Source:NCBI gene;Acc:706973]	0.666726536	0.006034676	0.039472017
ENSMMUG000000031123	secretoglobin family 1A member 1 [Source:VGNC Symbol;Acc:VGNC:77004]	0.666067115	0.001688198	0.014782576
ENSMMUG00000002257	RNA polymerase III subunit E [Source:VGNC Symbol;Acc:VGNC:76142]	0.664528021	0.005474043	0.036691637
ENSMMUG00000020784	centrosomal protein 126 [Source:NCBI gene;Acc:701911]	0.649577997	0.002179001	0.018164262
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	0.648669068	0.002726528	0.021706086
ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	0.636362323	0.004537299	0.031778355
ENSMMUG00000022922	nuclear receptor subfamily 4 group A member 1 [Source:VGNC Symbol;Acc:VGNC:75517]	0.633183443	0.001576527	0.014099881
ENSMMUG000000052030	developing brain homeobox 2 [Source:NCBI gene;Acc:701170]	0.623930748	0.006233784	0.040299091
ENSMMUG00000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]	0.619908992	0.004520751	0.031729016
ENSMMUG000000061749	PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]	0.557535872	0.006904595	0.043435463
ENSMMUG000000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]	0.562604742	0.005845513	0.038453363
ENSMMUG00000015114	toll like receptor adaptor molecule 2 [Source:NCBI gene;Acc:100426353]	0.584265614	0.007875525	0.048311448
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	0.58602053	0.007746947	0.047625352
ENSMMUG00000023318	transformation/transcription domain associated protein [Source:VGNC Symbol;Acc:VGNC:78657]	0.603528395	0.00545996	0.036623915
ENSMMUG00000008336	acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]	0.648683399	0.00492834	0.033897992
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	0.658318607	0.003898253	0.02849533
ENSMMUG00000021012	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	0.668467595	0.001106363	0.010740353
ENSMMUG00000023381	dynein axonemal heavy chain 8 [Source:VGNC Symbol;Acc:VGNC:71943]	0.668601109	0.004769901	0.033130116
ENSMMUG00000022104	family with sequence similarity 174 member C [Source:NCBI gene;Acc:706393]	0.670523483	0.003978347	0.028920006
ENSMMUG00000008133	solute carrier family 17 member 5 [Source:VGNC Symbol;Acc:VGNC:77405]	0.678313329	0.004467421	0.031504732
ENSMMUG00000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	0.692979007	0.006389912	0.040995672
ENSMMUG00000006287	DAP3 binding cell death enhancer 1 [Source:VGNC Symbol;Acc:VGNC:71806]	0.695531694	0.007745416	0.047625352
ENSMMUG00000005480	carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	0.696602409	0.00074662	0.007852732
ENSMMUG00000017806	CD109 molecule [Source:VGNC Symbol;Acc:VGNC:70834]	0.698763399	0.002443265	0.019863403
ENSMMUG00000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]	0.702219964	0.001088145	0.010630786
ENSMMUG00000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	0.705461678	0.001170841	0.011247655
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	0.711230783	0.005369682	0.036256189
ENSMMUG00000015922	formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]	0.713670705	0.006953224	0.043679536
ENSMMUG00000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]	0.717013777	0.004889101	0.033728935
ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.720374562	0.005545686	0.036983294
ENSMMUG000000057979	growth differentiation factor 5 [Source:NCBI gene;Acc:705432]	0.722047103	0.004389135	0.031071701
ENSMMUG00000017505	tetratricopeptide repeat domain 3 [Source:VGNC Symbol;Acc:VGNC:81785]	0.726242939	0.003812571	0.028002467
ENSMMUG000000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	0.729825511	0.002447012	0.0198763
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	0.731099584	0.006491593	0.041603157

ENSMMUG00000038349	crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]	0.731547661	0.003370871	0.025449872
ENSMMUG00000008772	VPS54 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:79159]	0.732394301	0.006669505	0.042418422
ENSMMUG00000062055	glyoxalase I [Source:NCBI gene;Acc:719518]	0.732562465	0.007208632	0.044885682
ENSMMUG00000054377		0.735831156	0.001269174	0.011942953
ENSMMUG00000018029	amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]	0.736282379	0.006753695	0.042726342
ENSMMUG00000058106	otoconin 90 [Source:NCBI gene;Acc:100429699]	0.738846937	0.004458715	0.031467448
ENSMMUG00000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]	0.747543256	0.001665922	0.014687159
ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	0.748306699	0.005423113	0.036536534
ENSMMUG00000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	0.751028956	0.005561689	0.037036343
ENSMMUG00000055601		0.751797399	0.002246363	0.018557703
ENSMMUG00000057906		0.754140839	0.001832998	0.015824656
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	0.754521204	0.003582074	0.026736277
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	0.755911205	0.002799286	0.022132154
ENSMMUG00000059292		0.75680785	0.004146468	0.029765945
ENSMMUG00000064612	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.757681684	0.001502464	0.013609428
ENSMMUG00000017382	biliverdin reductase A [Source:VGNC Symbol;Acc:VGNC:70256]	0.758401875	0.002168778	0.018095436
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	0.760424372	0.003880161	0.028430831
ENSMMUG00000006141	ceramide transporter 1 [Source:VGNC Symbol;Acc:VGNC:71298]	0.761304705	0.004095339	0.029529842
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	0.76151357	0.000347143	0.004220285
ENSMMUG00000014010	RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]	0.766212204	0.000214485	0.002800303
ENSMMUG00000014210	metadherin [Source:VGNC Symbol;Acc:VGNC:74859]	0.76873303	0.004132725	0.029690452
ENSMMUG00000042510	coagulation factor V [Source:NCBI gene;Acc:704695]	0.769779248	0.001333922	0.01241262
ENSMMUG00000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	0.773930297	0.000876774	0.008955546
ENSMMUG00000006470	complement C1r subcomponent [Source:NCBI gene;Acc:722133]	0.774416994	0.001007288	0.010032547
ENSMMUG00000012442	DExD/H-box helicase 58 [Source:VGNC Symbol;Acc:VGNC:71672]	0.78721508	0.001381754	0.012741764
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	0.789133177	0.002295358	0.018894616
ENSMMUG00000017949	ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]	0.791527832	0.001183457	0.011345165
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]	0.793879978	0.005577441	0.037097026
ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	0.794163291	0.003422187	0.025709703
ENSMMUG00000054789	family with sequence similarity 174 member A [Source:NCBI gene;Acc:702300]	0.798214648	0.001189251	0.011388842
ENSMMUG00000006139	3-hydroxy-3-methylglutaryl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:73484]	0.798921581	0.001837143	0.015845575
ENSMMUG00000005220	synemin [Source:VGNC Symbol;Acc:VGNC:78201]	0.801243818	0.000322155	0.003976058
ENSMMUG00000042077	DNA damage regulated autophagy modulator 1 [Source:NCBI gene;Acc:697427]	0.80535118	0.004130546	0.029690452
ENSMMUG00000021812	ERCC excision repair 8, CSA ubiquitin ligase complex subunit [Source:VGNC Symbol;Acc:VGNC:72425]	0.806476739	0.000600197	0.006490728
ENSMMUG00000003555	calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]	0.80714125	0.002125494	0.017880182
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]	0.807168765	0.001506035	0.013623123
ENSMMUG00000062048		0.810723524	0.004234496	0.030209356
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	0.812703425	0.006300977	0.040607769
ENSMMUG00000022973	gametogenetin [Source:VGNC Symbol;Acc:VGNC:72740]	0.815132354	0.004932866	0.033903782
ENSMMUG00000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	0.816057912	0.003625894	0.026932286
ENSMMUG00000050119		0.816184121	0.000542243	0.006063506
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]	0.816489305	0.000165175	0.002291369
ENSMMUG00000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	0.821024203	0.000639911	0.006831903
ENSMMUG00000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]	0.822736026	0.000946242	0.009548535
ENSMMUG00000057560		0.828860615	0.001085866	0.010625275
ENSMMUG00000006101	myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]	0.83008348	0.006496212	0.041603787
ENSMMUG00000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	0.834345	0.000210156	0.002762951
ENSMMUG00000020346	carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]	0.834927642	0.003915722	0.028554981
ENSMMUG00000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	0.835823464	0.00063186	0.006761636
ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	0.838073397	0.000566492	0.006281231
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	0.839282069	0.005914526	0.038796424

ENSMMUG00000055209		0.843662177	0.006216753	0.040263786
ENSMMUG00000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	0.84483029	0.00206935	0.017552282
ENSMMUG00000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	0.845472909	0.000133776	0.001924954
ENSMMUG00000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	0.847457177	0.001105146	0.010739867
ENSMMUG00000009976	uridine-cytidine kinase 1 [Source:VGNC Symbol;Acc:VGNC:78967]	0.848501887	0.000817134	0.008440054
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	0.850306017	0.003156743	0.024270261
ENSMMUG00000016655	R3H domain and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:76551]	0.850536465	0.003028113	0.023482487
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	0.851217173	0.000962723	0.009682993
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]	0.851572559	0.001641196	0.014532069
ENSMMUG00000053989		0.852491609	0.007446423	0.046054726
ENSMMUG00000022933	DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]	0.852887072	0.001014226	0.010090724
ENSMMUG00000009725	triadin [Source:HGNC Symbol;Acc:HGNC:12261]	0.853235205	0.002812985	0.022221376
ENSMMUG00000003105	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]	0.853470323	0.001967217	0.016825553
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	0.853701162	7.96E-05	0.001226331
ENSMMUG00000058621		0.854774735	0.004902346	0.033779176
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	0.855573687	4.02E-05	0.000683427
ENSMMUG00000060493		0.856787114	0.001703384	0.014873093
ENSMMUG00000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	0.860914249	0.007086364	0.044394697
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]	0.861028186	0.003948238	0.028746547
ENSMMUG00000010996	Janus kinase 3 [Source:VGNC Symbol;Acc:VGNC:73812]	0.862317709	4.06E-05	0.000687332
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	0.863589948	0.000172115	0.002363127
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]	0.864848835	0.000325635	0.004006446
ENSMMUG00000015303	ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]	0.86788738	0.00401375	0.029108388
ENSMMUG00000037887	RBMX like 1 [Source:NCBI gene;Acc:100424767]	0.867989463	0.003275824	0.024956462
ENSMMUG00000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	0.870295348	0.000579991	0.006372501
ENSMMUG00000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]	0.872289766	0.000486683	0.005577768
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	0.87233623	0.001411353	0.012911219
ENSMMUG00000002822	unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]	0.875861888	0.001176233	0.011287667
ENSMMUG00000020488	receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]	0.876494517	0.001330115	0.012389726
ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	0.880152036	0.000746573	0.007852732
ENSMMUG00000003233	SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]	0.892202048	0.007141414	0.044678745
ENSMMUG00000010138	HECT and RLD domain containing E3 ubiquitin protein ligase 3 [Source:VGNC Symbol;Acc:VGNC:73365]	0.896551266	0.000613237	0.006593009
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]	0.899213701	0.000299123	0.003735178
ENSMMUG00000053257	Y RNA [Source:RFAM;Acc:RF00019]	0.899245347	0.001164844	0.0112023
ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	0.899264758	0.000160372	0.002249369
ENSMMUG00000020916	coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]	0.903107101	0.002434507	0.0198097
ENSMMUG00000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	0.903777537	0.000264497	0.003362109
ENSMMUG00000065221		0.904397702	0.001646269	0.014553906
ENSMMUG00000018176	clavesin 2 [Source:VGNC Symbol;Acc:VGNC:71322]	0.904421017	0.002290297	0.018869834
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	0.905808022	0.003739978	0.027535212
ENSMMUG00000010536	discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]	0.90584793	0.000573145	0.006332117
ENSMMUG00000013048	junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]	0.905928371	0.005402445	0.036450664
ENSMMUG00000021446	diacylglycerol kinase zeta [Source:VGNC Symbol;Acc:VGNC:71789]	0.908665069	0.001700236	0.014859705
ENSMMUG00000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	0.913195059	0.003238002	0.024729737
ENSMMUG00000032341	coiled-coil domain containing 160 [Source:VGNC Symbol;Acc:VGNC:70926]	0.916508519	4.02E-05	0.000683427
ENSMMUG00000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	0.917811571	0.004513383	0.031729016
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]	0.920408471	0.000117326	0.001711176
ENSMMUG00000004913	mitotic deacetylase associated SANT domain protein [Source:VGNC Symbol;Acc:VGNC:72073]	0.9204829	0.002168552	0.018095436
ENSMMUG00000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	0.9213026	0.006061712	0.039620692
ENSMMUG00000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]	0.923054068	0.000304036	0.003776035
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	0.924115514	0.001377329	0.012713702

ENSMMUG0000004224	poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]	0.924193942	0.000165117	0.002291369
ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]	0.925200752	0.000248183	0.003181096
ENSMMUG00000011043	endoplasmic reticulum aminopeptidase 2 [Source:VGNC Symbol;Acc:VGNC:72141]	0.929953229	3.09E-05	0.000553317
ENSMMUG00000056008		0.933085097	9.53E-05	0.001424168
ENSMMUG00000049297		0.937332059	0.002788708	0.022086469
ENSMMUG00000008566	zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]	0.938614718	0.004439048	0.031352695
ENSMMUG00000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	0.939653444	0.000149982	0.002133355
ENSMMUG00000019926	cytoplasmic polyadenylation element binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71450]	0.942963679	0.002141198	0.017979424
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	0.943647648	0.000303717	0.003776035
ENSMMUG00000017312	zinc finger RANBP2-type containing 2 [Source:NCBI gene;Acc:703513]	0.946408225	0.005454938	0.036623915
ENSMMUG00000017260	G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]	0.947905873	0.002217567	0.018363442
ENSMMUG00000008006	RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]	0.953109743	0.000225721	0.00294237
ENSMMUG00000002324		0.953225951	0.001358111	0.012599493
ENSMMUG00000003297	coiled-coil domain containing 63 [Source:VGNC Symbol;Acc:VGNC:70879]	0.954047324	0.006137879	0.039864297
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	0.956465124	0.000105906	0.001563476
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	0.958873635	1.78E-05	0.000345094
ENSMMUG00000017402	phosphoglucomutase 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75839]	0.95971888	0.004180946	0.029928787
ENSMMUG00000055122		0.96033775	0.001466141	0.01334609
ENSMMUG00000015572	GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]	0.960641875	0.000346411	0.004216958
ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	0.960662059	0.001250578	0.011801779
ENSMMUG00000010062	shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]	0.962167313	0.000368601	0.004411233
ENSMMUG00000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	0.965172458	5.35E-06	0.000123958
ENSMMUG00000008770	UDP-glucose pyrophosphorylase 2 [Source:VGNC Symbol;Acc:VGNC:78712]	0.965576844	0.005458399	0.036623915
ENSMMUG00000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	0.966410727	0.000488202	0.005585889
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	0.967153257	0.000823665	0.00847896
ENSMMUG00000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	0.968609705	0.004282784	0.030482955
ENSMMUG00000044822	coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]	0.969091783	0.000526297	0.005935673
ENSMMUG00000045187	CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]	0.971068628	9.40E-05	0.001416429
ENSMMUG00000061917		0.971517607	0.000270954	0.003434702
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	0.971873379	0.00390448	0.028506559
ENSMMUG00000062316	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.972519376	0.006114013	0.039764899
ENSMMUG00000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	0.973187001	1.51E-06	3.96E-05
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	0.973304797	0.000582478	0.006378415
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	0.973604219	0.001650137	0.014574101
ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	0.974792659	0.005721065	0.03774526
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	0.976965861	6.10E-05	0.000979344
ENSMMUG00000010949	SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]	0.980251978	0.001084766	0.010625275
ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	0.980409903	3.98E-05	0.000677972
ENSMMUG00000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]	0.981430407	0.000911293	0.009246563
ENSMMUG00000000478	OTU deubiquitinase, ubiquitin aldehyde binding 1 [Source:NCBI gene;Acc:717989]	0.982476725	0.000324088	0.003992748
ENSMMUG00000014407	magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]	0.982974274	0.002154953	0.018061962
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	0.985651509	5.91E-06	0.000133338
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	0.985713666	5.11E-05	0.000844355
ENSMMUG00000042837	mediator complex subunit 26 [Source:NCBI gene;Acc:100424604]	0.98580756	0.002100825	0.017719018
ENSMMUG00000058544	nucleosome assembly protein 1 like 5 [Source:NCBI gene;Acc:703223]	0.986757383	0.00024545	0.00315486
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	0.987542591	0.000716776	0.007582176
ENSMMUG00000018166	MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]	0.989758188	0.002181535	0.018168929
ENSMMUG00000060533		0.993262076	4.92E-06	0.000115425
ENSMMUG00000008651	FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]	0.994489675	0.001669322	0.014687159
ENSMMUG00000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	0.995569088	0.001086427	0.010625275
ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	0.995768889	0.005289791	0.035901143

ENSMMUG00000019925	DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]	0.998562153	0.00268817	0.021524498
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	1.006025074	0.000336077	0.004118246
ENSMMUG00000007603	coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]	1.008188981	0.003175045	0.024370258
ENSMMUG00000063590		1.010033485	0.001857378	0.015990134
ENSMMUG00000005483	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	1.012990803	0.003649089	0.027039105
ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]	1.013220851	0.00041822	0.004934457
ENSMMUG00000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	1.021096175	5.39E-06	0.000124696
ENSMMUG00000020603	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]	1.021731565	0.000130639	0.001890368
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]	1.021923034	0.001373906	0.012694836
ENSMMUG00000019988	homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]	1.023641842	0.008012567	0.048937565
ENSMMUG00000060987		1.024428024	0.003402247	0.025601701
ENSMMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]	1.024959182	0.003008018	0.023377712
ENSMMUG00000061995		1.026918592	0.000242143	0.003121064
ENSMMUG00000014864	VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]	1.027383439	0.006838963	0.04310889
ENSMMUG00000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	1.028525398	0.00194218	0.016626872
ENSMMUG00000050419	ADAM metalloproteinase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]	1.029202291	0.003045042	0.023586266
ENSMMUG00000056945		1.030731447	0.000464848	0.005378321
ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	1.032784441	0.00374835	0.027574789
ENSMMUG00000005667	fumarate hydratase [Source:VGNC Symbol;Acc:VGNC:72659]	1.035038574	0.002200451	0.018276847
ENSMMUG00000053737	BarH like homeobox 2 [Source:NCBI gene;Acc:696831]	1.036505529	3.90E-05	0.000667604
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	1.03868848	0.000502651	0.00571098
ENSMMUG00000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.039579126	0.002890845	0.022661153
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	1.04313737	0.001859392	0.015992506
ENSMMUG00000023681	nucleolar protein 9 [Source:VGNC Symbol;Acc:VGNC:75263]	1.043997852	0.004603949	0.032147301
ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]	1.044115278	0.001722465	0.014997015
ENSMMUG00000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.044184194	0.001412989	0.012913346
ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	1.044805809	2.30E-07	7.55E-06
ENSMMUG00000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	1.047065723	3.00E-05	0.000540464
ENSMMUG00000056477		1.047200024	1.40E-06	3.72E-05
ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]	1.049214386	0.000302316	0.003764832
ENSMMUG00000000874	carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]	1.04994301	0.002463639	0.019993709
ENSMMUG00000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	1.056385001	1.95E-05	0.000373092
ENSMMUG00000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	1.058227136	0.000571379	0.006320195
ENSMMUG00000063322		1.058789474	0.001538603	0.013868525
ENSMMUG00000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	1.060413044	6.55E-05	0.001034733
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	1.061946535	0.003601153	0.026791762
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	1.061985339	9.61E-05	0.001433016
ENSMMUG00000021044	afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]	1.064555383	8.20E-06	0.000177464
ENSMMUG00000064920		1.066571182	0.002217012	0.018363442
ENSMMUG00000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	1.067553639	0.003326649	0.025240592
ENSMMUG00000055914		1.069370874	0.002074086	0.017570819
ENSMMUG00000010141	family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]	1.069585678	8.12E-07	2.31E-05
ENSMMUG00000001409	coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]	1.069676443	0.00418216	0.029928787
ENSMMUG00000065025		1.070659496	0.000398313	0.004736009
ENSMMUG00000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]	1.072843624	3.74E-05	0.000645419
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	1.073705335	5.21E-05	0.000856225
ENSMMUG00000063495		1.073812983	0.000563327	0.006253678
ENSMMUG00000011278	cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]	1.075358907	0.000114603	0.001676768
ENSMMUG00000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	1.076715262	0.007304484	0.045329174
ENSMMUG00000011951	KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]	1.078876528	0.00055022	0.00611555
ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]	1.07913612	9.22E-05	0.001393874

ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	1.079611356	2.23E-05	0.000418022
ENSMMUG000000059671		1.080661199	0.006390905	0.040995672
ENSMMUG00000001083	glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]	1.081060638	4.54E-06	0.000107664
ENSMMUG000000011817	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	1.081552899	0.002495423	0.020198219
ENSMMUG000000000382	sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]	1.082650807	0.000494609	0.005643471
ENSMMUG000000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	1.083077073	0.00128699	0.012053726
ENSMMUG000000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]	1.084119122	0.005855137	0.038461691
ENSMMUG000000020580	RPGRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]	1.084261063	0.006627008	0.042235703
ENSMMUG000000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	1.084695304	3.06E-05	0.000549451
ENSMMUG000000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]	1.085359329	0.001142861	0.011036462
ENSMMUG000000057953		1.087279608	0.004843518	0.033514959
ENSMMUG000000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]	1.088062828	2.62E-05	0.000477111
ENSMMUG000000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]	1.088713915	0.000274878	0.003474865
ENSMMUG000000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]	1.090434744	0.002340844	0.019234634
ENSMMUG000000056950		1.091756532	5.10E-05	0.000844355
ENSMMUG000000050516		1.092444652	1.29E-06	3.45E-05
ENSMMUG000000055352		1.092794908	3.20E-05	0.000570895
ENSMMUG000000061194		1.096531347	1.18E-05	0.000243334
ENSMMUG000000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	1.097135569	6.62E-05	0.001043246
ENSMMUG000000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]	1.098984428	0.000636577	0.006804207
ENSMMUG000000048204	ephrin B3 [Source:NCBI gene;Acc:716257]	1.101216661	0.005038141	0.034498523
ENSMMUG000000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	1.102808686	0.000192568	0.002579624
ENSMMUG000000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]	1.104185178	0.000337485	0.00412467
ENSMMUG000000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]	1.108337656	0.000213882	0.002799938
ENSMMUG000000051072		1.108933344	1.31E-05	0.000264196
ENSMMUG000000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	1.111604129	8.52E-05	0.001305305
ENSMMUG000000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	1.111812238	0.000149757	0.002133355
ENSMMUG000000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.112753047	0.001029807	0.010223641
ENSMMUG000000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	1.114859793	0.000235092	0.003042967
ENSMMUG000000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	1.117750422	5.93E-07	1.75E-05
ENSMMUG000000062394	C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]	1.119285254	0.001213236	0.011546442
ENSMMUG000000020605	heparanase 2 (inactive) [Source:NCBI gene;Acc:708795]	1.120123198	0.002542057	0.020485596
ENSMMUG000000061785		1.120424406	1.28E-06	3.45E-05
ENSMMUG000000045544	neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]	1.129381076	0.000188675	0.002542285
ENSMMUG000000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	1.129824675	1.46E-07	5.15E-06
ENSMMUG000000055290	netrin 1 [Source:NCBI gene;Acc:717645]	1.130194674	0.002608388	0.020928505
ENSMMUG000000002483	citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]	1.131298037	0.002475696	0.020073859
ENSMMUG000000017660		1.13217565	0.002018198	0.017165876
ENSMMUG000000051677		1.133961096	0.000282169	0.003557265
ENSMMUG000000015115	terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]	1.142801971	0.000519289	0.005871024
ENSMMUG000000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	1.145526157	6.42E-08	2.50E-06
ENSMMUG000000011774	integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	1.145968553	8.96E-07	2.51E-05
ENSMMUG000000055048		1.146519397	0.000751697	0.007897108
ENSMMUG000000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	1.147329864	0.000191396	0.002575177
ENSMMUG000000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	1.14945554	6.50E-05	0.001030166
ENSMMUG000000013696	myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]	1.152333837	0.005038071	0.034498523
ENSMMUG000000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	1.153325856	3.04E-08	1.33E-06
ENSMMUG000000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]	1.156318821	0.002166967	0.018095436
ENSMMUG000000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]	1.157028697	0.002793881	0.022108415
ENSMMUG000000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.157194733	1.51E-06	3.96E-05
ENSMMUG000000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	1.15837948	0.000439404	0.005131765

ENSMMUG0000009201	abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]	1.158867075	0.006732854	0.042644496
ENSMMUG0000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	1.159775406	1.52E-06	3.96E-05
ENSMMUG0000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	1.160834461	0.000774506	0.008090556
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	1.162641052	1.19E-05	0.000244784
ENSMMUG00000064892		1.162729412	0.000684751	0.007276865
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	1.165315847	0.00011963	0.001742021
ENSMMUG00000016001	vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]	1.165395387	0.007312368	0.045347523
ENSMMUG00000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	1.16713763	0.003326832	0.025240592
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	1.167745236	0.007879548	0.048311448
ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]	1.167994721	0.000447883	0.005203989
ENSMMUG00000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	1.168166768	3.64E-05	0.000633125
ENSMMUG00000045970	thiamine triphosphatase [Source:NCBI gene;Acc:714403]	1.168636368	1.89E-05	0.000362185
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	1.174678963	8.63E-06	0.000185159
ENSMMUG00000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]	1.175171998	3.55E-05	0.000622981
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	1.175673921	0.000329215	0.004045075
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	1.178067682	2.11E-05	0.000399244
ENSMMUG00000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]	1.18671177	5.94E-05	0.000955902
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	1.187615368	4.45E-06	0.000105738
ENSMMUG00000003106	SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]	1.188788973	0.000170463	0.002355518
ENSMMUG00000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	1.190672632	0.006590977	0.042064325
ENSMMUG00000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]	1.190796564	0.000345843	0.004215617
ENSMMUG00000065269	Rho family GTPase 2 [Source:NCBI gene;Acc:712559]	1.19567938	0.002271918	0.018751987
ENSMMUG00000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	1.195680054	6.11E-05	0.000979344
ENSMMUG00000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	1.195865156	3.97E-06	9.62E-05
ENSMMUG00000037413	U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]	1.197955172	0.003047275	0.023586266
ENSMMUG00000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]	1.200166334	0.006313365	0.040630697
ENSMMUG00000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	1.201446624	5.55E-06	0.000126827
ENSMMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]	1.203345073	0.000103384	0.001532115
ENSMMUG00000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]	1.208235236	8.37E-06	0.000180464
ENSMMUG00000057231	T-box transcription factor 21 [Source:NCBI gene;Acc:694044]	1.20984619	0.00046519	0.005378321
ENSMMUG00000052607		1.209971381	6.38E-07	1.86E-05
ENSMMUG00000000803	signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]	1.210205438	0.004030493	0.029183815
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	1.211304865	6.88E-05	0.001078298
ENSMMUG00000058187		1.212422515	5.94E-06	0.000133759
ENSMMUG00000022407	serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]	1.212797758	0.00730026	0.045329174
ENSMMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]	1.215147099	0.002075354	0.017570819
ENSMMUG00000056555		1.21903065	0.001482734	0.013483795
ENSMMUG00000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	1.219316643	0.001992513	0.01699453
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	1.221028382	0.003922593	0.028582441
ENSMMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]	1.221073582	5.12E-05	0.000844355
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	1.221824788	3.67E-06	9.00E-05
ENSMMUG00000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	1.227809996	5.57E-05	0.000909846
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	1.22783492	3.96E-08	1.65E-06
ENSMMUG00000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.228718676	0.001585892	0.01416987
ENSMMUG00000014674	golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]	1.231398515	0.000771104	0.008064176
ENSMMUG00000051807		1.233331916	0.001006447	0.010032547
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	1.238304107	1.06E-05	0.000221022
ENSMMUG00000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]	1.240765972	0.00025618	0.003269938
ENSMMUG00000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]	1.240813494	4.63E-06	0.000109272
ENSMMUG00000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]	1.241567147	0.000415781	0.004911979
ENSMMUG00000064391		1.243361025	0.000205288	0.002714468

ENSMMUG00000061342		1.244236122	1.54E-05	0.000304208
ENSMMUG00000009199	glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]	1.244323627	0.001287495	0.012053726
ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	1.248315703	1.20E-06	3.25E-05
ENSMMUG00000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]	1.249744426	3.77E-07	1.15E-05
ENSMMUG000000049866		1.250856619	2.39E-05	0.000444105
ENSMMUG00000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	1.251089347	0.000533486	0.005983506
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.252095097	2.05E-06	5.24E-05
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]	1.252989682	0.000152167	0.002156168
ENSMMUG00000008383	major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]	1.257346221	0.004567331	0.03191583
ENSMMUG00000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]	1.258412421	0.002153642	0.018061962
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	1.260551449	0.000584537	0.006378415
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	1.262895234	5.67E-08	2.27E-06
ENSMMUG00000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]	1.266006184	0.002164084	0.018095436
ENSMMUG00000005964	CMP-N-acetylneuraminic acid hydroxylase [Source:NCBI gene;Acc:574186]	1.26650101	0.002199846	0.018276847
ENSMMUG00000011209	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	1.26841162	0.002913376	0.022721864
ENSMMUG00000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	1.27259079	7.84E-05	0.001211973
ENSMMUG00000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	1.274266846	3.67E-05	0.000637598
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	1.275670049	1.51E-05	0.000299525
ENSMMUG000000039292		1.27592973	0.003454932	0.025913395
ENSMMUG000000048066	trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]	1.276734638	0.000253577	0.003241209
ENSMMUG00000005324	homeobox B7 [Source:NCBI gene;Acc:697089]	1.277205315	0.000818203	0.008441613
ENSMMUG000000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]	1.278233014	9.76E-06	0.000205053
ENSMMUG000000050028		1.280680646	0.00081923	0.008442744
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.281486146	2.62E-05	0.000477111
ENSMMUG000000038363	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]	1.283290811	7.34E-06	0.000161141
ENSMMUG00000000590	NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]	1.289841432	0.007014129	0.044002067
ENSMMUG000000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	1.292489789	1.85E-07	6.25E-06
ENSMMUG000000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	1.293202835	2.22E-08	1.03E-06
ENSMMUG00000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	1.294489228	4.38E-05	0.000738356
ENSMMUG000000042951	signal recognition particle 19 [Source:NCBI gene;Acc:693829]	1.295645909	0.001501923	0.013609428
ENSMMUG000000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	1.296226103	2.58E-06	6.53E-05
ENSMMUG000000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]	1.296255058	4.03E-07	1.22E-05
ENSMMUG000000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	1.297816452	1.88E-05	0.000362185
ENSMMUG000000014766	neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]	1.299726104	0.000528477	0.005938424
ENSMMUG000000002810	TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]	1.300044899	9.49E-05	0.001424168
ENSMMUG000000051816	keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]	1.301776335	0.006789251	0.042878686
ENSMMUG000000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]	1.306064285	3.52E-05	0.000618512
ENSMMUG000000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]	1.306766093	0.002212319	0.018358855
ENSMMUG000000001278	vitrin [Source:VGNC Symbol;Acc:VGNC:78773]	1.307511963	0.001788483	0.015513112
ENSMMUG00000019830	Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]	1.30810856	0.000405994	0.004814901
ENSMMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]	1.310564852	3.96E-06	9.62E-05
ENSMMUG000000009684	kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]	1.311086245	0.000275833	0.003482151
ENSMMUG00000012538	ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]	1.315075394	0.000463137	0.005368073
ENSMMUG000000042472	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.315810479	0.00430291	0.030578901
ENSMMUG000000055121	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.316010123	0.006276621	0.040489178
ENSMMUG00000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	1.318857759	5.23E-06	0.000121497
ENSMMUG000000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	1.319663535	0.004795786	0.033259696
ENSMMUG000000064242		1.320186599	0.006190859	0.040151145
ENSMMUG000000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	1.3241495	8.26E-09	4.32E-07
ENSMMUG000000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	1.32427388	2.23E-09	1.38E-07
ENSMMUG000000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]	1.329893514	0.001132601	0.010971926

ENSMMUG00000017266	UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]	1.332065432	0.002226806	0.018412666
ENSMMUG00000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	1.334726505	2.03E-05	0.000386563
ENSMMUG00000056840		1.336320689	6.15E-05	0.000982008
ENSMMUG00000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	1.336860449	0.002909375	0.022721864
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]	1.337446988	0.003195746	0.024467932
ENSMMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]	1.339740303	3.70E-06	9.04E-05
ENSMMUG00000061079	golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]	1.341812425	8.76E-07	2.48E-05
ENSMMUG00000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.343061799	5.15E-06	0.000120344
ENSMMUG00000029296	phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]	1.343381695	0.004524253	0.031729016
ENSMMUG00000016476	TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]	1.343915016	3.22E-05	0.000571339
ENSMMUG00000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	1.345345626	8.59E-09	4.47E-07
ENSMMUG00000060675		1.34657251	4.50E-05	0.000755492
ENSMMUG00000058574		1.346774573	6.18E-06	0.000138066
ENSMMUG00000055096		1.34743469	0.000602317	0.006506013
ENSMMUG00000006596	CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]	1.348486101	0.001403248	0.012875461
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	1.348507444	2.49E-05	0.000457214
ENSMMUG00000013044	selectin P [Source:VGNC Symbol;Acc:VGNC:77157]	1.348908718	8.35E-05	0.001280241
ENSMMUG00000060517		1.355738186	0.001536949	0.013867195
ENSMMUG00000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	1.358056	1.42E-07	5.05E-06
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]	1.358831271	0.000162694	0.002272035
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]	1.363883618	1.57E-06	4.05E-05
ENSMMUG00000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]	1.364411823	2.03E-05	0.000386209
ENSMMUG00000007366		1.366318469	0.001394988	0.012819813
ENSMMUG00000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]	1.367853027	2.92E-07	9.18E-06
ENSMMUG00000040741	thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]	1.368575725	0.004998855	0.034280527
ENSMMUG00000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	1.369561702	1.99E-07	6.68E-06
ENSMMUG00000016480	CaM kinase like vesicle associated [Source:VGNC Symbol;Acc:VGNC:70663]	1.372002869	0.000597305	0.006467052
ENSMMUG00000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	1.372247671	2.21E-07	7.29E-06
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	1.374625452	1.56E-05	0.000305786
ENSMMUG00000062397		1.375404138	0.000849587	0.008716549
ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	1.375984172	1.66E-09	1.09E-07
ENSMMUG00000064557		1.378712004	0.000547822	0.006103643
ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	1.382448486	7.38E-08	2.86E-06
ENSMMUG00000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	1.386145274	1.23E-07	4.45E-06
ENSMMUG00000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	1.388832707	1.05E-06	2.89E-05
ENSMMUG00000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]	1.390040303	2.53E-06	6.43E-05
ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	1.393218911	0.007184186	0.04479408
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	1.397405957	1.31E-07	4.71E-06
ENSMMUG00000060812	autophagy related 12 [Source:NCBI gene;Acc:696765]	1.40222034	0.000213848	0.002799938
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	1.402846181	2.36E-09	1.45E-07
ENSMMUG00000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	1.405579472	1.26E-10	9.38E-09
ENSMMUG00000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	1.406618462	2.96E-07	9.28E-06
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	1.408715666	2.91E-07	9.16E-06
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	1.410984743	1.52E-07	5.29E-06
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	1.411467055	6.48E-06	0.000144005
ENSMMUG00000058110		1.412095321	0.003633979	0.026970574
ENSMMUG00000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	1.41717116	1.02E-06	2.80E-05
ENSMMUG00000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	1.417993775	1.42E-07	5.05E-06
ENSMMUG00000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	1.419896397	1.49E-05	0.000296486
ENSMMUG00000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	1.420902161	1.23E-07	4.45E-06
ENSMMUG00000056906		1.421678567	3.42E-05	0.000602207

ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	1.42240885	3.90E-06	9.49E-05
ENSMMUG00000052348		1.42270578	0.000133006	0.001921589
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	1.424478889	0.000322301	0.003976058
ENSMMUG00000010888	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	1.430021138	5.05E-05	0.000839649
ENSMMUG00000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.431365416	1.69E-08	8.12E-07
ENSMMUG00000059472	filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]	1.43144562	0.003195219	0.024467932
ENSMMUG00000060712		1.43263693	4.35E-05	0.000733887
ENSMMUG00000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]	1.433580757	2.41E-10	1.74E-08
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	1.437555846	3.07E-08	1.34E-06
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	1.438847543	3.61E-05	0.000631054
ENSMMUG00000020549	protein phosphatase 6 catalytic subunit [Source:NCBI gene;Acc:703658]	1.442700611	0.005674851	0.037572416
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	1.443371582	9.24E-09	4.78E-07
ENSMMUG0000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	1.443737591	1.58E-08	7.66E-07
ENSMMUG00000011328	cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]	1.446180345	0.002513395	0.020307965
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	1.446751079	0.000366135	0.004393141
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	1.447451291	1.15E-07	4.24E-06
ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	1.448932543	0.004199415	0.030005603
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.451569465	1.41E-07	5.05E-06
ENSMMUG00000022914	RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]	1.452209485	4.05E-08	1.68E-06
ENSMMUG00000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	1.453720679	0.000181321	0.002478128
ENSMMUG00000057702		1.453991262	2.38E-07	7.73E-06
ENSMMUG00000020979	inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]	1.454394373	0.000380107	0.004537126
ENSMMUG00000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]	1.459478478	0.000170044	0.002353251
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]	1.461041575	2.98E-08	1.31E-06
ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	1.462551589	0.000188037	0.002539994
ENSMMUG00000014277	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	1.463198382	1.15E-07	4.24E-06
ENSMMUG00000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	1.465716154	0.001496044	0.013578005
ENSMMUG00000002397	GIN5 complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]	1.467145346	0.001604906	0.014278765
ENSMMUG00000011440	neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]	1.46803549	1.44E-05	0.000288413
ENSMMUG00000012001	transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]	1.471809642	0.001068591	0.010506671
ENSMMUG00000052073		1.472017042	1.26E-05	0.00025779
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	1.472350987	7.31E-09	3.93E-07
ENSMMUG00000060901		1.473415305	2.65E-08	1.20E-06
ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.473777264	0.000193607	0.002586782
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	1.477650658	7.73E-09	4.09E-07
ENSMMUG00000001745	oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]	1.479300935	0.000198362	0.002638047
ENSMMUG00000005086	homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]	1.479954776	1.47E-05	0.000292715
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	1.480062997	8.19E-05	0.001258768
ENSMMUG00000060760		1.481057411	0.008092846	0.049320088
ENSMMUG00000061816		1.485821536	0.002930617	0.022836976
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	1.487844105	3.20E-05	0.000570895
ENSMMUG00000037243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.492065269	0.005349896	0.036149116
ENSMMUG00000054072		1.493785236	1.26E-06	3.39E-05
ENSMMUG00000017627	B-TFIIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	1.494084162	2.73E-09	1.63E-07
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	1.494478085	0.002354386	0.019277056
ENSMMUG00000021022	deoxynucleotidyltransferase terminal interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:71845]	1.495925995	0.002102485	0.017719018
ENSMMUG00000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]	1.499501229	6.36E-09	3.52E-07
ENSMMUG00000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.500432652	2.56E-05	0.000466866
ENSMMUG00000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]	1.500435943	0.002689685	0.021524498
ENSMMUG00000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]	1.50087436	1.54E-06	4.00E-05
ENSMMUG00000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	1.502137165	3.59E-08	1.51E-06

ENSMMUG00000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	1.50448788	0.001902569	0.016318123
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]	1.506715425	0.000951392	0.009579502
ENSMMUG00000008218	ADAMTS like 4 [Source:VGNC Symbol;Acc:VGNC:69480]	1.508436379	0.003489763	0.026132048
ENSMMUG00000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	1.509935211	0.001278294	0.01200866
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	1.514403371	9.95E-07	2.75E-05
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	1.515714812	1.15E-07	4.24E-06
ENSMMUG00000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	1.515846866	8.00E-07	2.28E-05
ENSMMUG00000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	1.517964068	1.44E-06	3.80E-05
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	1.51852454	1.01E-08	5.22E-07
ENSMMUG00000010309	septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]	1.521880766	0.006793125	0.042878686
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	1.522366227	1.34E-11	1.16E-09
ENSMMUG00000009593	WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]	1.527755313	9.17E-06	0.000194353
ENSMMUG00000049234	ninjurin 2 [Source:NCBI gene;Acc:706368]	1.528240072	0.005520265	0.036867199
ENSMMUG00000014291	SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]	1.530657783	3.63E-07	1.11E-05
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	1.531159969	2.63E-07	8.41E-06
ENSMMUG00000058137	zinc finger protein 816 [Source:NCBI gene;Acc:720058]	1.533011187	0.005580562	0.037097026
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.5354594	1.08E-06	2.96E-05
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	1.535712994	2.39E-09	1.45E-07
ENSMMUG00000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.536078255	6.50E-05	0.001030166
ENSMMUG00000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	1.536999741	0.000289704	0.003633044
ENSMMUG00000058592		1.542292445	0.000798517	0.008284955
ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]	1.544658917	3.06E-07	9.54E-06
ENSMMUG00000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]	1.545640361	1.58E-07	5.45E-06
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	1.546109519	2.70E-05	0.00048871
ENSMMUG00000018485	methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]	1.546907435	0.004424572	0.031298492
ENSMMUG00000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	1.547035535	9.20E-05	0.00139218
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	1.548873043	1.30E-06	3.47E-05
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	1.550487234	8.95E-07	2.51E-05
ENSMMUG00000022207	phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]	1.551431728	0.007680429	0.047342924
ENSMMUG00000061335		1.551474662	0.001541106	0.013877493
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	1.552013002	0.000154111	0.002175279
ENSMMUG00000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]	1.552343585	7.44E-05	0.001158595
ENSMMUG00000010869	nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]	1.552967671	1.28E-05	0.000261556
ENSMMUG00000062063	melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]	1.554907164	0.000124318	0.001807425
ENSMMUG00000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	1.555809126	4.22E-06	0.000101589
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	1.561350058	3.16E-07	9.80E-06
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	1.568043128	3.42E-08	1.44E-06
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]	1.568104446	5.58E-05	0.000909846
ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	1.568354337	3.24E-10	2.31E-08
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	1.56884749	2.17E-07	7.22E-06
ENSMMUG00000004576	C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]	1.56984877	0.00024783	0.003181
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	1.571169059	3.22E-05	0.000571339
ENSMMUG00000014123	alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]	1.574470081	0.003454465	0.025913395
ENSMMUG00000001273	clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]	1.57461663	3.07E-07	9.54E-06
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	1.575579428	1.67E-07	5.72E-06
ENSMMUG00000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	1.583110733	2.39E-05	0.000444105
ENSMMUG00000052780		1.584826155	9.74E-07	2.70E-05
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	1.586132662	1.16E-05	0.000240222
ENSMMUG00000020009	receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]	1.588144088	0.001117887	0.010840793
ENSMMUG00000058013	melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]	1.589433423	0.00399413	0.028988945
ENSMMUG0000004024	cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]	1.590995136	0.000133866	0.001924954

ENSMMUG0000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	1.5936914	6.43E-09	3.54E-07
ENSMMUG0000003098	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]	1.596248535	4.27E-07	1.29E-05
ENSMMUG00000009414	Sad1 and UNC84 domain containing 5 [Source:VGNC Symbol;Acc:VGNC:78133]	1.59756512	0.001101092	0.01071179
ENSMMUG00000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	1.598340244	5.95E-08	2.36E-06
ENSMMUG00000050608		1.598438478	8.73E-06	0.000186947
ENSMMUG00000001761	myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]	1.599489726	2.35E-07	7.68E-06
ENSMMUG00000053013		1.60460544	6.86E-05	0.001077562
ENSMMUG00000023282	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]	1.605472586	6.00E-07	1.76E-05
ENSMMUG00000038067		1.606260005	0.002218858	0.018363442
ENSMMUG00000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]	1.609065687	0.000226543	0.0029489
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	1.612020312	1.83E-08	8.69E-07
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	1.612987477	0.002398413	0.019585266
ENSMMUG00000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	1.614159183	6.34E-07	1.85E-05
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	1.614615783	7.40E-08	2.86E-06
ENSMMUG00000060502		1.615953789	0.000155106	0.002182626
ENSMMUG00000060795		1.6190381	0.007555852	0.046637493
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]	1.62248375	4.18E-10	2.94E-08
ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]	1.622534676	3.10E-06	7.73E-05
ENSMMUG00000052777		1.626654181	0.002831113	0.022307131
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	1.627058119	0.000434232	0.005084268
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	1.633878192	1.22E-08	6.07E-07
ENSMMUG00000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	1.638497323	3.26E-08	1.41E-06
ENSMMUG00000052891		1.643393098	0.00044015	0.005133966
ENSMMUG00000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.64376968	7.82E-06	0.00017092
ENSMMUG00000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	1.644236776	2.45E-07	7.94E-06
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	1.644565558	9.41E-07	2.63E-05
ENSMMUG00000055897		1.646926466	3.19E-07	9.85E-06
ENSMMUG00000057687		1.648568864	4.46E-07	1.34E-05
ENSMMUG00000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.648718671	8.96E-05	0.001360628
ENSMMUG00000010824	SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]	1.651869154	0.004364329	0.030967554
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	1.653828743	0.000200347	0.002652947
ENSMMUG00000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	1.654126335	0.001208171	0.011522069
ENSMMUG00000003833	Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]	1.658869425	0.003257753	0.024839354
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	1.661507176	3.69E-05	0.000639006
ENSMMUG00000054568		1.661884973	0.002526057	0.02039237
ENSMMUG00000060576		1.663037265	6.16E-06	0.000137998
ENSMMUG00000013713	beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]	1.663194168	0.003341359	0.025291995
ENSMMUG00000058566		1.666047034	7.65E-09	4.07E-07
ENSMMUG00000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	1.669760309	1.73E-07	5.91E-06
ENSMMUG00000004512	Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]	1.670450357	0.005336062	0.036082132
ENSMMUG00000064173	prokineticin 1 [Source:NCBI gene;Acc:701766]	1.670627213	0.00718	0.04479408
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]	1.673756108	0.003333513	0.025270444
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	1.676233387	0.000270171	0.003429491
ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.677691695	0.001803958	0.015603221
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	1.678675803	5.61E-07	1.67E-05
ENSMMUG00000017501	N-acylethanolamine acid amidase [Source:VGNC Symbol;Acc:VGNC:75068]	1.679031813	0.003073999	0.02371334
ENSMMUG00000021436	latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]	1.683769106	0.000913354	0.009257268
ENSMMUG00000045513		1.684375979	0.002724752	0.021706086
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]	1.690196015	1.40E-05	0.000281789
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	1.691583023	0.000126252	0.001829766

ENSMMUG00000014897	ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]	1.691594426	0.000146739	0.002100217
ENSMMUG00000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	1.693256161	0.003783912	0.027814168
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	1.694666723	9.45E-16	1.93E-13
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]	1.697836363	5.37E-11	4.30E-09
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	1.7010435	0.002873423	0.022582501
ENSMMUG00000014876	nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]	1.702502372	0.000527079	0.005937217
ENSMMUG00000061098		1.704908705	2.27E-11	1.94E-09
ENSMMUG00000014699		1.708956048	1.11E-15	2.18E-13
ENSMMUG00000023449	mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]	1.709667089	0.007981881	0.048873754
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]	1.714304376	5.72E-05	0.000926167
ENSMMUG00000048621	enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]	1.717622519	3.41E-08	1.44E-06
ENSMMUG00000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	1.718567253	6.70E-12	6.20E-10
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]	1.718829388	0.001384553	0.01274204
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]	1.721448494	2.01E-08	9.38E-07
ENSMMUG00000043134	coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]	1.722118171	0.003233804	0.024718187
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	1.722120382	1.32E-05	0.000265673
ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]	1.724375592	6.65E-06	0.000147411
ENSMMUG00000062326		1.72702824	0.000289759	0.003633044
ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]	1.728891889	9.64E-05	0.001435094
ENSMMUG00000055811		1.730196416	5.02E-05	0.000835921
ENSMMUG00000060289		1.730222816	1.96E-13	2.31E-11
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	1.733011597	0.000585699	0.006378415
ENSMMUG00000006836	chloride channel accessory 1 [Source:NCBI gene;Acc:574295]	1.733842246	0.001356534	0.012597557
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	1.734330908	0.000351652	0.004269467
ENSMMUG00000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]	1.737887263	8.98E-05	0.00136172
ENSMMUG00000004668	receptor tyrosine kinase like orphan receptor 1 [Source:VGNC Symbol;Acc:VGNC:76715]	1.739249319	4.67E-06	0.000109907
ENSMMUG00000006766	RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]	1.746318944	8.89E-07	2.51E-05
ENSMMUG00000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]	1.746844764	6.21E-07	1.82E-05
ENSMMUG00000006997	thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]	1.747575988	2.53E-11	2.12E-09
ENSMMUG00000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	1.754542833	1.30E-10	9.60E-09
ENSMMUG00000060761		1.757914401	1.34E-11	1.16E-09
ENSMMUG00000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]	1.761878717	9.46E-05	0.001422604
ENSMMUG00000003568	testis expressed 101 [Source:VGNC Symbol;Acc:VGNC:79869]	1.762071095	0.000160878	0.002250092
ENSMMUG00000004222	thromboxane A synthase 1 [Source:VGNC Symbol;Acc:VGNC:78278]	1.765096257	1.17E-06	3.19E-05
ENSMMUG00000055963		1.7688957	1.51E-05	0.000299606
ENSMMUG00000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	1.773694887	1.18E-08	5.91E-07
ENSMMUG00000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]	1.773824766	0.00765671	0.047228353
ENSMMUG00000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	1.777767694	4.34E-06	0.000103495
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	1.784735021	0.000297068	0.003714566
ENSMMUG00000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]	1.786968036	2.20E-05	0.00041319
ENSMMUG00000061896		1.78744145	0.001216918	0.011569518
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	1.788142233	6.91E-07	1.99E-05
ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	1.791237339	5.11E-14	7.24E-12
ENSMMUG00000020980	ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]	1.79252426	3.40E-07	1.05E-05
ENSMMUG00000050405		1.794771889	0.000182694	0.002486604
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	1.800913207	1.04E-08	5.30E-07
ENSMMUG00000008518	phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]	1.802103786	1.54E-06	4.00E-05
ENSMMUG00000023192	choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]	1.804331752	0.004748053	0.033003268
ENSMMUG00000008474	transforming growth factor beta regulator 1 [Source:VGNC Symbol;Acc:VGNC:78239]	1.806832534	0.004067045	0.029402214
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	1.814587096	0.000185915	0.002519851
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	1.816962077	1.21E-05	0.000248232

ENSMMUG0000009788	tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]	1.819444524	0.000380983	0.004541698
ENSMMUG0000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]	1.821101051	3.82E-05	0.000658809
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	1.821751287	1.28E-08	6.33E-07
ENSMMUG00000064824	gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]	1.826231965	0.002352821	0.019277056
ENSMMUG00000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	1.827977824	1.35E-08	6.60E-07
ENSMMUG00000053481		1.830494165	0.000192146	0.002577727
ENSMMUG00000023477		1.837671339	1.68E-13	2.03E-11
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	1.840657605	1.34E-08	6.60E-07
ENSMMUG00000062863		1.847371554	0.000249398	0.00319223
ENSMMUG00000049494		1.852906505	0.006278176	0.040489178
ENSMMUG00000004042	Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]	1.864578073	0.003341852	0.025291995
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	1.867987741	2.02E-07	6.75E-06
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	1.871505523	2.96E-11	2.45E-09
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]	1.875286282	1.16E-09	7.65E-08
ENSMMUG00000012178	calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]	1.876507578	4.56E-08	1.87E-06
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	1.878889505	3.45E-11	2.84E-09
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	1.879897745	5.67E-13	6.45E-11
ENSMMUG00000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	1.880899767	1.35E-09	8.87E-08
ENSMMUG00000018345	phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	1.881619381	5.16E-09	2.93E-07
ENSMMUG00000006659	aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]	1.88320905	0.001560738	0.013985858
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	1.887462114	0.000110959	0.001633855
ENSMMUG00000010526	calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]	1.891470032	0.004371617	0.030971509
ENSMMUG00000056522		1.902692799	0.00105732	0.010418107
ENSMMUG00000056266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.904823205	0.002817685	0.022239415
ENSMMUG00000053516		1.90885799	0.001864187	0.016018782
ENSMMUG00000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	1.90940763	0.000185852	0.002519851
ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	1.912337078	1.20E-07	4.38E-06
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	1.916137113	6.74E-12	6.20E-10
ENSMMUG00000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	1.917247105	3.93E-11	3.17E-09
ENSMMUG00000060063		1.923912634	3.29E-08	1.41E-06
ENSMMUG00000054414		1.925163544	0.000182021	0.002481683
ENSMMUG00000051925		1.928519724	0.002342986	0.019235061
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	1.929902287	2.45E-09	1.47E-07
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]	1.936246058	0.000622163	0.006670638
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]	1.944824326	2.05E-13	2.38E-11
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	1.946712259	3.12E-15	5.32E-13
ENSMMUG00000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	1.949883348	4.74E-09	2.74E-07
ENSMMUG00000059182		1.954758821	3.45E-06	8.51E-05
ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	1.955321302	1.17E-10	8.75E-09
ENSMMUG00000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	1.955624945	5.68E-14	7.80E-12
ENSMMUG00000010466	solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]	1.965039375	4.83E-12	4.63E-10
ENSMMUG00000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]	1.965310007	0.000485164	0.005567285
ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]	1.966422261	0.008016981	0.048937565
ENSMMUG00000059374		1.970049315	0.004854567	0.033564486
ENSMMUG00000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	1.970758937	3.42E-05	0.000602207
ENSMMUG00000058536		1.974741252	2.66E-08	1.20E-06
ENSMMUG00000020186	solute carrier family 20 member 2 [Source:VGNC Symbol;Acc:VGNC:77416]	1.975793454	0.003055003	0.023586575
ENSMMUG00000050868		1.976383063	5.02E-08	2.02E-06
ENSMMUG00000013330	ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]	1.976936673	2.97E-06	7.47E-05
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	1.977829535	1.00E-17	2.72E-15
ENSMMUG00000014237	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	1.977949588	1.72E-12	1.74E-10

ENSMMUG00000061684		1.985245679	0.002080866	0.017601296
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]	1.985631302	8.66E-11	6.70E-09
ENSMMUG00000050585		1.986988281	2.90E-08	1.28E-06
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	1.988767247	0.000113511	0.00166344
ENSMMUG00000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	1.993133825	2.62E-08	1.19E-06
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	1.994290261	2.70E-06	6.83E-05
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	1.996722732	3.13E-12	3.10E-10
ENSMMUG00000029034	defensin beta 136 [Source:VGNC Symbol;Acc:VGNC:71826]	2.002708006	0.00054433	0.006079454
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	2.004524565	4.22E-08	1.74E-06
ENSMMUG00000009988	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	2.005774736	4.80E-12	4.63E-10
ENSMMUG00000053106		2.00640944	5.49E-06	0.00012591
ENSMMUG00000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	2.008033591	1.63E-08	7.86E-07
ENSMMUG00000056376		2.009137018	1.46E-05	0.000290691
ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	2.018427651	1.06E-10	8.04E-09
ENSMMUG00000049021	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.019815908	0.001758218	0.015264979
ENSMMUG00000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	2.028582971	1.85E-08	8.73E-07
ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]	2.035846965	0.000834262	0.008578452
ENSMMUG00000064707		2.037809997	1.27E-05	0.000259657
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	2.044935364	5.94E-15	9.59E-13
ENSMMUG00000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	2.049122997	6.38E-05	0.001016009
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	2.049302843	2.71E-08	1.21E-06
ENSMMUG00000063868	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.057393594	0.003715238	0.027374965
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	2.060059175	0.001368956	0.012661811
ENSMMUG00000001475	transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]	2.061125413	0.003373571	0.025449872
ENSMMUG00000012787	acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]	2.061842751	0.004684019	0.032656838
ENSMMUG00000064463		2.062286596	0.006319337	0.040640715
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	2.066250509	5.77E-08	2.30E-06
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	2.06840522	5.43E-09	3.07E-07
ENSMMUG00000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	2.072504958	5.06E-09	2.90E-07
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]	2.077676792	1.10E-08	5.56E-07
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	2.085568918	0.004175395	0.029926918
ENSMMUG00000015693	lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]	2.087778349	0.000568435	0.006295199
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]	2.090472667	5.91E-12	5.55E-10
ENSMMUG00000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	2.091082861	7.57E-09	4.05E-07
ENSMMUG00000009564	NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]	2.092433912	0.001200056	0.011459929
ENSMMUG00000056024		2.093156543	2.19E-10	1.59E-08
ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	2.098284075	0.001004224	0.010032547
ENSMMUG00000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	2.099148413	1.36E-15	2.56E-13
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	2.099546421	1.01E-05	0.000210853
ENSMMUG00000062996		2.102781314	0.006380482	0.040995672
ENSMMUG00000009441	abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]	2.108675695	2.70E-05	0.00048871
ENSMMUG00000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	2.112476966	1.56E-07	5.42E-06
ENSMMUG00000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	2.11512895	1.74E-05	0.000338412
ENSMMUG00000010314	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:VGNC Symbol;Acc:VGNC:73238]	2.118773498	1.15E-08	5.77E-07
ENSMMUG00000037175	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.119036743	0.001985542	0.016950781
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]	2.120872976	3.78E-17	9.41E-15
ENSMMUG00000012697	AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]	2.122922988	6.29E-08	2.47E-06
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	2.131653726	8.43E-08	3.23E-06
ENSMMUG00000039009		2.133016105	0.000361077	0.004343775
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]	2.133475984	1.90E-15	3.50E-13
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.13376449	0.000429457	0.005034763

ENSMMUG00000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	2.133771068	9.66E-15	1.51E-12
ENSMMUG00000001545	aquaporin 7 [Source:NCBI gene;Acc:702836]	2.13895866	0.000170944	0.002358623
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]	2.140729384	0.001033537	0.010246444
ENSMMUG00000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.141537956	9.54E-10	6.36E-08
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	2.147405186	0.00677904	0.042848564
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	2.154647912	0.000308466	0.00381561
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	2.163850851	9.97E-14	1.27E-11
ENSMMUG00000057539		2.164091777	0.001364132	0.01262989
ENSMMUG00000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	2.165967112	9.88E-08	3.73E-06
ENSMMUG00000020185	voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]	2.168826303	0.003597748	0.026788088
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]	2.170036518	5.78E-07	1.71E-05
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.174861231	1.66E-22	8.98E-20
ENSMMUG00000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	2.183514033	3.84E-12	3.76E-10
ENSMMUG00000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	2.184367555	0.000817003	0.008440054
ENSMMUG00000022451	proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]	2.186710602	0.004078791	0.029458808
ENSMMUG00000014138	forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]	2.19145867	2.62E-07	8.41E-06
ENSMMUG00000012147	collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]	2.196726959	0.004836684	0.033492853
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.201529919	8.63E-14	1.14E-11
ENSMMUG00000005482	lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]	2.202331908	0.005478616	0.036695566
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	2.202796511	5.76E-09	3.23E-07
ENSMMUG00000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	2.204798497	2.20E-07	7.27E-06
ENSMMUG00000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]	2.210323293	0.00201074	0.017132524
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	2.210969788	5.53E-17	1.34E-14
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	2.211766512	1.61E-11	1.38E-09
ENSMMUG00000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	2.212158162	0.00021311	0.002797787
ENSMMUG00000057570		2.214861162	1.13E-16	2.53E-14
ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]	2.22869861	1.91E-13	2.28E-11
ENSMMUG00000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	2.233889152	0.005045303	0.034510764
ENSMMUG00000007534	protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]	2.236285677	0.002137475	0.017964552
ENSMMUG00000018549	zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]	2.240590815	0.000604201	0.006511171
ENSMMUG00000053376		2.246073817	6.24E-11	4.95E-09
ENSMMUG00000049678		2.246461653	0.000479694	0.005518276
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	2.247397542	9.38E-15	1.49E-12
ENSMMUG00000062091		2.250959653	0.003604092	0.026791969
ENSMMUG00000065295		2.251095538	5.25E-13	6.04E-11
ENSMMUG00000014076	AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]	2.266500865	0.001516714	0.013698053
ENSMMUG00000053457	caspase 14 [Source:NCBI gene;Acc:718049]	2.268697737	4.26E-06	0.000101949
ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	2.269628461	1.49E-16	3.27E-14
ENSMMUG00000009184	myelin protein zero like 1 [Source:NCBI gene;Acc:698437]	2.276978926	0.005288695	0.035901143
ENSMMUG00000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	2.286284987	1.84E-07	6.22E-06
ENSMMUG00000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	2.289771215	7.35E-17	1.73E-14
ENSMMUG00000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	2.29046875	0.00057988	0.006372501
ENSMMUG00000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	2.290906051	1.61E-12	1.65E-10
ENSMMUG00000015555	ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]	2.293127316	0.002352615	0.019277056
ENSMMUG00000031100	membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]	2.294333974	0.004541678	0.031784835
ENSMMUG00000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.303163741	9.02E-11	6.92E-09
ENSMMUG00000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	2.305589043	2.58E-12	2.58E-10
ENSMMUG00000064554	leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]	2.307738367	0.000367589	0.004404845
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]	2.313088677	4.76E-09	2.74E-07
ENSMMUG00000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	2.313620675	1.12E-11	1.01E-09
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	2.315336299	2.39E-05	0.000444105

ENSMMUG0000009040	cornulin [Source:VGNC Symbol;Acc:VGNC:71397]	2.320293232	0.0015589	0.013982998
ENSMMUG00000062037	stannin [Source:NCBI gene;Acc:711909]	2.320377841	0.000163825	0.002283221
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]	2.322786014	8.23E-19	2.61E-16
ENSMMUG00000051975		2.324791114	3.86E-05	0.000662003
ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	2.329540279	1.22E-11	1.09E-09
ENSMMUG00000049130		2.330497661	6.97E-16	1.46E-13
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	2.335947589	1.98E-09	1.25E-07
ENSMMUG00000020020	Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]	2.338909102	6.55E-05	0.001034733
ENSMMUG00000055199	cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]	2.343634707	0.000793887	0.008246213
ENSMMUG00000061923		2.350024641	0.006920399	0.04350303
ENSMMUG00000050543		2.354819011	3.33E-08	1.42E-06
ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]	2.357282471	7.36E-07	2.11E-05
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	2.36740643	3.14E-18	9.03E-16
ENSMMUG00000005504	nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]	2.367966396	0.00801472	0.048937565
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	2.371843611	0.004151605	0.029779598
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	2.378102445	3.04E-15	5.29E-13
ENSMMUG00000007140	MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]	2.382977788	0.007339368	0.045484313
ENSMMUG00000060767		2.383945565	0.000877753	0.008955611
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	2.384679125	0.000501278	0.00570243
ENSMMUG00000003007	caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]	2.391558668	0.002503909	0.020249101
ENSMMUG00000062454		2.392187098	7.27E-10	4.99E-08
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	2.393486481	1.43E-17	3.75E-15
ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	2.415501897	1.69E-18	5.03E-16
ENSMMUG00000025625	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.419496085	0.007198587	0.044853481
ENSMMUG00000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	2.42363077	0.000343931	0.004197871
ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	2.426087087	1.02E-13	1.29E-11
ENSMMUG00000063914		2.431449636	1.02E-21	5.19E-19
ENSMMUG00000004774	maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]	2.435320919	0.000533789	0.005983506
ENSMMUG00000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.441857596	7.69E-05	0.001191545
ENSMMUG00000005294	casein kinase 2 beta [Source:NCBI gene;Acc:715807]	2.443519486	0.001589008	0.014183938
ENSMMUG00000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	2.453366152	1.09E-19	4.00E-17
ENSMMUG00000023060	A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]	2.453400757	0.000971817	0.009753141
ENSMMUG00000021477	ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]	2.453965468	1.48E-07	5.20E-06
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	2.457206817	1.86E-24	1.43E-21
ENSMMUG00000014032	proline rich 36 [Source:NCBI gene;Acc:710443]	2.486208591	0.000336512	0.004118246
ENSMMUG00000057157		2.492137614	6.26E-08	2.47E-06
ENSMMUG00000016069	cubilin [Source:VGNC Symbol;Acc:VGNC:82132]	2.505966203	2.03E-05	0.000386209
ENSMMUG00000019526	BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]	2.510814077	1.18E-07	4.33E-06
ENSMMUG00000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	2.512436584	1.32E-11	1.16E-09
ENSMMUG00000013450	TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]	2.524198113	0.000379516	0.004535951
ENSMMUG00000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	2.524852104	6.88E-13	7.72E-11
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	2.526899184	4.51E-09	2.63E-07
ENSMMUG00000055379		2.529044784	1.04E-13	1.30E-11
ENSMMUG00000038944		2.531782792	1.48E-23	9.74E-21
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	2.534352023	5.66E-05	0.000918789
ENSMMUG00000058916		2.535333854	8.44E-06	0.000181458
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	2.537201259	0.008136361	0.049457679
ENSMMUG00000023403	GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]	2.552668446	0.000182922	0.002486604
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	2.561938201	4.36E-07	1.31E-05
ENSMMUG00000005293	G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]	2.563097475	0.000889064	0.009060967
ENSMMUG00000059504		2.573687104	0.00062038	0.006662029

ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	2.579934489	2.74E-09	1.63E-07
ENSMMUG00000023048	cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]	2.580921732	0.001072668	0.010535498
ENSMMUG00000001338	antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]	2.58795269	0.006572435	0.042004248
ENSMMUG000000048215		2.58837451	4.44E-05	0.000747616
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	2.596675088	1.80E-07	6.13E-06
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	2.597162285	6.80E-09	3.72E-07
ENSMMUG00000010521	ADP ribosylation factor like GTPase 5A [Source:VGNC Symbol;Acc:VGNC:70017]	2.601746793	0.007524379	0.0464744
ENSMMUG000000063351	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.60907232	0.003289468	0.025018986
ENSMMUG000000055038		2.611238779	0.002381228	0.019479506
ENSMMUG000000064730		2.611602168	2.78E-07	8.83E-06
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	2.621741315	2.87E-06	7.23E-05
ENSMMUG00000010137	microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]	2.628734838	0.005661232	0.037536255
ENSMMUG000000057179	cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]	2.631940926	5.20E-05	0.000856225
ENSMMUG000000023139	small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]	2.639241864	0.000193664	0.002586782
ENSMMUG000000053937		2.639745056	1.20E-15	2.31E-13
ENSMMUG000000028907	insulin receptor [Source:NCBI gene;Acc:706009]	2.642317791	1.42E-08	6.90E-07
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	2.651089653	1.03E-08	5.26E-07
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]	2.659024872	6.12E-05	0.000979344
ENSMMUG00000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	2.661349837	0.005902212	0.038743263
ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	2.661373527	7.28E-09	3.93E-07
ENSMMUG000000062139		2.668079876	8.03E-06	0.00017469
ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	2.687324301	2.44E-08	1.12E-06
ENSMMUG00000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	2.691708389	1.60E-07	5.52E-06
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	2.697063326	2.17E-05	0.00040989
ENSMMUG000000054960		2.701404485	2.10E-05	0.000397168
ENSMMUG00000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	2.714110915	1.02E-07	3.82E-06
ENSMMUG000000000566		2.721978163	0.00019929	0.002646564
ENSMMUG000000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	2.731269778	2.07E-09	1.31E-07
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	2.747455669	2.91E-15	5.26E-13
ENSMMUG00000013740	minichromosome maintenance 8 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:74516]	2.764591633	1.86E-08	8.75E-07
ENSMMUG00000014397	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	2.767883405	1.77E-05	0.000343257
ENSMMUG000000064931		2.809722948	0.000208565	0.002747878
ENSMMUG000000055820		2.812658676	0.004966228	0.034107611
ENSMMUG000000007773	solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]	2.818988971	0.0040281	0.029183815
ENSMMUG00000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]	2.828520876	8.94E-05	0.001360628
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	2.868611949	5.81E-21	2.55E-18
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	2.871596405	4.57E-08	1.87E-06
ENSMMUG000000052474		2.872639746	5.71E-12	5.42E-10
ENSMMUG000000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	2.878215139	0.002879586	0.022611632
ENSMMUG00000023310	tetraspanin 12 [Source:VGNC Symbol;Acc:VGNC:79328]	2.895529626	0.006226523	0.040297253
ENSMMUG000000056629	nucleolar protein 12 [Source:NCBI gene;Acc:698318]	2.907904355	0.003010169	0.023377712
ENSMMUG00000010180	PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	2.908881631	4.87E-08	1.97E-06
ENSMMUG000000053790		2.915102144	3.29E-17	8.42E-15
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	2.932425425	5.38E-07	1.60E-05
ENSMMUG000000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	2.9426294	4.99E-21	2.29E-18
ENSMMUG00000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	2.943038677	0.000214519	0.002800303
ENSMMUG000000061031		2.950825913	2.89E-08	1.28E-06
ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]	2.956739158	0.001098925	0.010702014
ENSMMUG00000023286	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	2.978760181	8.76E-13	9.60E-11
ENSMMUG00000012039	cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]	2.982524891	0.000117153	0.001711176
ENSMMUG00000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.98728842	7.13E-05	0.001113269

ENSMMUG00000058423		3.002945422	1.95E-06	5.02E-05
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	3.007264011	3.41E-20	1.43E-17
ENSMMUG00000015468	checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]	3.014455038	1.14E-05	0.000237998
ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.018242816	9.44E-07	2.63E-05
ENSMMUG00000002330	ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]	3.021625754	4.67E-08	1.90E-06
ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]	3.022237098	5.84E-06	0.00013214
ENSMMUG00000052569		3.034246184	3.87E-06	9.44E-05
ENSMMUG00000053984		3.047925552	0.001246083	0.011773821
ENSMMUG00000019690	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	3.049055542	4.09E-07	1.24E-05
ENSMMUG00000046186	stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]	3.054584671	0.000484642	0.005567285
ENSMMUG00000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	3.069490506	8.95E-17	2.06E-14
ENSMMUG00000009187	calcium voltage-gated channel subunit alpha1 B [Source:VGNC Symbol;Acc:VGNC:70499]	3.069532381	0.006661402	0.042396183
ENSMMUG00000063525		3.085468227	2.06E-07	6.87E-06
ENSMMUG00000046169		3.091138729	5.91E-10	4.12E-08
ENSMMUG00000005108	RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]	3.091998593	3.12E-08	1.36E-06
ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]	3.104864776	2.30E-11	1.94E-09
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	3.112246522	1.07E-15	2.15E-13
ENSMMUG00000053083	C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]	3.119611305	4.55E-06	0.00010775
ENSMMUG00000057934		3.120911293	2.04E-10	1.49E-08
ENSMMUG00000058817		3.121606238	2.69E-19	9.18E-17
ENSMMUG00000059332	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.140448982	0.005414532	0.036505449
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.140613887	0.000335767	0.004118246
ENSMMUG00000006853	crystallin beta B2 [Source:NCBI gene;Acc:100144420]	3.163645402	0.000273097	0.003457101
ENSMMUG00000006723	solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]	3.177306149	9.37E-14	1.21E-11
ENSMMUG00000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	3.178377463	3.10E-14	4.53E-12
ENSMMUG00000031391	RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]	3.205239643	2.33E-07	7.65E-06
ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	3.206146298	0.00369237	0.027250103
ENSMMUG00000008197	netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]	3.233801732	0.005512701	0.036867199
ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	3.233862071	1.03E-24	8.65E-22
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	3.23441164	4.03E-24	2.86E-21
ENSMMUG00000004435	two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]	3.24885933	3.43E-15	5.64E-13
ENSMMUG00000061533		3.252164361	4.15E-18	1.16E-15
ENSMMUG00000054686		3.262056102	2.51E-21	1.22E-18
ENSMMUG00000021062	CD177 molecule [Source:VGNC Symbol;Acc:VGNC:70912]	3.267320366	8.06E-06	0.000174937
ENSMMUG00000051972	zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]	3.278695649	0.001232073	0.011689448
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	3.294726643	3.35E-06	8.30E-05
ENSMMUG00000059175		3.328713063	1.12E-10	8.46E-09
ENSMMUG00000057632		3.335910979	1.78E-08	8.50E-07
ENSMMUG00000061935		3.365286999	6.23E-14	8.30E-12
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	3.372827768	6.66E-05	0.001048172
ENSMMUG00000017822	periplakin [Source:VGNC Symbol;Acc:VGNC:76240]	3.378593133	2.09E-09	1.31E-07
ENSMMUG00000052168		3.382204544	1.12E-18	3.42E-16
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]	3.394935217	8.34E-20	3.34E-17
ENSMMUG00000058534		3.399360982	0.001044631	0.010315167
ENSMMUG00000005106	unc-45 myosin chaperone A [Source:VGNC Symbol;Acc:VGNC:79858]	3.409393488	0.005225121	0.035619841
ENSMMUG00000010592	adducin 2 [Source:VGNC Symbol;Acc:VGNC:69529]	3.418060337	0.007999612	0.048937565
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	3.449664786	0.000744378	0.007847095
ENSMMUG00000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	3.461280156	3.42E-14	4.92E-12
ENSMMUG00000021157	TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]	3.467459344	0.001162687	0.0112023
ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]	3.509818673	0.000236202	0.00305305
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	3.516696759	4.07E-23	2.34E-20

ENSMMUG0000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	3.551654443	1.97E-14	2.97E-12
ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	3.572114215	5.23E-14	7.30E-12
ENSMMUG00000062794		3.613884726	6.18E-14	8.30E-12
ENSMMUG00000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	3.63196792	8.34E-30	1.10E-26
ENSMMUG00000005997	cell division cycle 14B [Source:NCBI gene;Acc:710300]	3.638910317	0.007039784	0.044132926
ENSMMUG00000005554	mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]	3.654861229	3.44E-23	2.11E-20
ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]	3.686066614	4.12E-06	9.96E-05
ENSMMUG00000056058	C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]	3.702619767	0.005669085	0.037561258
ENSMMUG00000051037		3.760606452	8.99E-06	0.000191133
ENSMMUG00000015329	MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]	3.764369696	8.43E-12	7.68E-10
ENSMMUG00000006841	myoferlin [Source:VGNC Symbol;Acc:VGNC:75061]	3.772453942	0.008064993	0.049186304
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	3.797161046	4.57E-05	0.00076419
ENSMMUG00000055556		3.858775907	0.005456559	0.036623915
ENSMMUG00000013251	xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]	3.878318757	3.27E-06	8.12E-05
ENSMMUG00000057785		3.893477968	0.004913723	0.03382273
ENSMMUG00000050495		3.933602434	0.003223559	0.024660363
ENSMMUG00000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	3.973456387	7.32E-10	4.99E-08
ENSMMUG00000056248		4.000732964	1.64E-25	1.68E-22
ENSMMUG00000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	4.042384874	1.21E-05	0.000248765
ENSMMUG00000063779		4.091662074	4.67E-33	1.08E-29
ENSMMUG00000018767	cell division cycle associated 5 [Source:NCBI gene;Acc:721998]	4.108220112	0.001488596	0.013523739
ENSMMUG00000063198		4.125443057	9.52E-05	0.001424168
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]	4.140241275	0.001639782	0.014532069
ENSMMUG00000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	4.177153999	1.50E-06	3.96E-05
ENSMMUG00000004309	APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]	4.182886715	0.00787197	0.048311448
ENSMMUG00000053655		4.261294478	0.005239061	0.03566204
ENSMMUG00000011914	prospero homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76427]	4.276334366	0.007685599	0.047343083
ENSMMUG00000051645		4.290120014	0.006308861	0.040630127
ENSMMUG00000059985		4.316955531	0.004732741	0.032921702
ENSMMUG00000018743	ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]	4.336799809	0.006253022	0.04038355
ENSMMUG00000060218	chemokine (C motif) ligand 1 [Source:NCBI gene;Acc:574367]	4.36828248	0.004495322	0.031642472
ENSMMUG00000015487	pericentriolar material 1 [Source:VGNC Symbol;Acc:VGNC:75781]	4.368664273	0.005300109	0.035944661
ENSMMUG00000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	4.374762983	1.34E-19	4.74E-17
ENSMMUG00000020586	serpin family A member 12 [Source:VGNC Symbol;Acc:VGNC:77266]	4.380751555	0.005246129	0.03568376
ENSMMUG00000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	4.402371883	3.04E-37	1.40E-33
ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	4.435367696	3.63E-08	1.52E-06
ENSMMUG00000029883	olfactory receptor, family 2, subfamily J, member 3 [Source:NCBI gene;Acc:708943]	4.468248652	0.003985968	0.028952535
ENSMMUG00000010316	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]	4.524872124	1.04E-33	3.18E-30
ENSMMUG00000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]	4.635646685	1.62E-13	1.99E-11
ENSMMUG00000010614	C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]	4.676042508	0.003420074	0.025709703
ENSMMUG00000058326	neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]	4.791346039	0.000842943	0.008658037
ENSMMUG00000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.823938931	0.000137199	0.001966736
ENSMMUG00000053837		4.975055594	2.48E-05	0.000456049
ENSMMUG00000059782		5.014097502	1.05E-39	9.67E-36
ENSMMUG00000043396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.031302203	2.08E-05	0.00039397
ENSMMUG00000049267		5.041737179	1.33E-12	1.43E-10
ENSMMUG00000010318	phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]	5.103026628	1.24E-30	2.29E-27
ENSMMUG00000003005	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]	5.238273751	0.000776279	0.008099887
ENSMMUG00000001456	MCF.2 cell line derived transforming sequence-like 2 [Source:VGNC Symbol;Acc:VGNC:74624]	5.349083309	0.00089776	0.009129372
ENSMMUG00000062092		5.406880206	0.000610518	0.006571459
ENSMMUG00000061318		5.426232096	0.00076002	0.007966364

ENSMMUG0000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]	5.43969974	2.37E-09	1.45E-07
ENSMMUG0000002741	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]	5.746462263	9.94E-05	0.001475155
ENSMMUG00000049232	AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]	6.590690361	6.88E-07	1.99E-05
ENSMMUG00000027543	Y RNA [Source:RFAM;Acc:RF00019]	7.364343034	0.000133625	0.001924954
ENSMMUG0000001989	RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]	7.967203885	1.73E-09	1.11E-07

SD 3 vs. Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	6.449193999	4.90E-08	1.55E-06
ENSMMUG00000052929		5.834163027	6.21E-06	0.000108815
ENSMMUG00000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	5.790721134	2.49E-24	1.35E-21
ENSMMUG00000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	5.601716063	8.13E-05	0.000978024
ENSMMUG00000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	5.560970685	8.06E-05	0.000971159
ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]	5.433581726	0.000278839	0.002785656
ENSMMUG00000055207		5.399841318	0.000314727	0.003083641
ENSMMUG00000056790		5.372464792	1.65E-06	3.44E-05
ENSMMUG00000061408		5.135492005	0.001602836	0.011983737
ENSMMUG00000010050	small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]	5.017337943	8.26E-06	0.000138651
ENSMMUG00000053577		4.902490613	0.000229374	0.002382101
ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	-4.87050721	0.000406892	0.003829958
ENSMMUG00000062793		4.851109976	1.98E-14	2.17E-12
ENSMMUG00000063345		4.831028668	0.00064616	0.005632797
ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]	4.800173593	0.000296985	0.002948845
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	4.795147371	0.000251747	0.002581516
ENSMMUG00000059241		4.759821885	0.000299049	0.00296211
ENSMMUG00000017378	steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]	4.492846391	0.000958567	0.007820297
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	4.349631516	3.13E-09	1.26E-07
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	4.202708582	3.63E-19	8.95E-17
ENSMMUG00000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	-4.19801426	1.87E-08	6.57E-07
ENSMMUG00000060278	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.186258941	0.002392494	0.016452438
ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]	4.172725184	0.003398142	0.021683126
ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	4.154126594	2.65E-06	5.23E-05
ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]	4.090129376	1.38E-05	0.000213524
ENSMMUG00000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	4.026926331	0.006167939	0.034349766
ENSMMUG00000021332	carboxypeptidase X, M14 family member 1 [Source:VGNC Symbol;Acc:VGNC:71413]	4.026024054	0.006365654	0.03516225
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	4.023090205	1.70E-05	0.000254479

ENSMMUG00000051271		-3.97865133	1.66E-05	0.000249246
ENSMMUG00000008942	carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]	-		
ENSMMUG00000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	3.952034088	0.005571719	0.031768162
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]	-3.94298864	0.004290991	0.026189842
ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]	-		
ENSMMUG00000004711	transmembrane protein 74B [Source:VGNC Symbol;Acc:VGNC:78990]	3.908669538	0.00295943	0.019447684
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	-		
ENSMMUG00000057073		3.713729454	8.09E-14	7.93E-12
ENSMMUG00000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	-		
ENSMMUG00000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.697391399	0.005164759	0.030206034
ENSMMUG00000057276		-3.66751686	0.005551934	0.031699013
ENSMMUG00000018565	ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]	-3.62951223	0.003783455	0.023659671
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	-		
ENSMMUG00000037625		3.622424458	2.06E-07	5.35E-06
ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	-3.5928043	4.98E-06	9.06E-05
ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]	-		
ENSMMUG00000060892		3.570467927	0.001056573	0.008525888
ENSMMUG00000055783		-3.53771724	0.005660237	0.03213783
ENSMMUG00000055809		-		
ENSMMUG0000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]	3.485423332	2.04E-10	1.04E-08
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	-		
ENSMMUG00000052535		3.451481955	0.001908472	0.013747389
ENSMMUG00000039317	cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]	-		
ENSMMUG00000059019		3.440531549	0.005928222	0.03331096
ENSMMUG0000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	-		
ENSMMUG00000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	3.412109694	0.002104097	0.014897004
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	-		
ENSMMUG00000038661		3.344279182	7.13E-28	5.28E-25
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	-3.32148203	0.007030831	0.038007238
ENSMMUG00000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	-		
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	3.316293739	0.003414386	0.021735675
		-		
		3.316077673	2.51E-18	5.10E-16
		-		
		3.293592059	5.47E-09	2.10E-07
		-		
		3.285979155	0.005419833	0.031276366
		-		
		3.265244023	0.000847955	0.007073817
		-		
		3.264970483	3.45E-07	8.54E-06
		-		
		3.138504138	2.61E-07	6.59E-06
		-		
		3.119470509	0.006676278	0.036629551
		-		
		3.095483555	0.0057134	0.032417074
		-		
		3.091707635	6.03E-06	0.000106277
		-		
		3.087085744	2.08E-05	0.000298337
		-		
		3.067518681	2.35E-09	9.71E-08
		-		
		3.000223061	0.000256923	0.002624678

ENSMMUG00000010858	prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]	-	2.988899896	9.20E-12	6.15E-10
ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	-	2.968880929	9.59E-11	5.18E-09
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	-	2.967883832	0.000101373	0.001184192
ENSMMUG00000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.945737672	2.08E-05	0.000298337
ENSMMUG00000006768	coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]	-	2.862538887	0.004897183	0.028998447
ENSMMUG00000064158		-	2.854275515	0.008215221	0.043153761
ENSMMUG00000051115		-	2.845844052	0.000501693	0.004543695
ENSMMUG00000016093	adenosine deaminase RNA specific [Source:VGNC Symbol;Acc:VGNC:69502]	-	2.842777322	5.14E-12	3.58E-10
ENSMMUG00000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	-	2.741189188	0.000264914	0.002676092
ENSMMUG00000017703	collagen type XXV alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81374]	-	2.718191389	5.92E-08	1.82E-06
ENSMMUG00000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]	-	2.704140041	1.91E-07	4.99E-06
ENSMMUG00000015577	RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]	-	2.687797808	0.000278073	0.002785656
ENSMMUG00000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	-	2.665131013	0.002426419	0.016622032
ENSMMUG00000004492	absent in melanoma 2 [Source:NCBI gene;Acc:719260]	-	2.662293195	1.64E-19	4.32E-17
ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	-	2.659444519	6.66E-05	0.000818727
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	-	2.642510779	8.19E-05	0.000983645
ENSMMUG00000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	-	2.622602249	5.14E-09	2.00E-07
ENSMMUG00000060845	F-box protein 48 [Source:NCBI gene;Acc:699202]	-	2.606696064	0.005527068	0.031686497
ENSMMUG00000008974	Fc receptor like 5 [Source:NCBI gene;Acc:718771]	-	2.595275638	1.61E-23	7.72E-21
ENSMMUG00000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]	-	2.571461269	0.000111915	0.001292498
ENSMMUG00000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	-	2.565520408	1.27E-06	2.73E-05
ENSMMUG00000052328	FAM20C golgi associated secretory pathway kinase [Source:NCBI gene;Acc:695088]	-	-2.55129554	1.14E-05	0.000180382
ENSMMUG00000061973		-	2.515103826	2.64E-12	1.94E-10
ENSMMUG00000052682		-	2.487026108	0.004663845	0.027921345
ENSMMUG00000005204	VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]	-	2.472897069	0.00531757	0.030935842
ENSMMUG00000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	-	2.451706252	5.64E-07	1.32E-05
ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]	-	2.433749374	0.009205929	0.047052526
ENSMMUG00000053721		-	2.414762031	0.008672169	0.044887986
ENSMMUG00000022762	OMA1 zinc metalloproteinase [Source:VGNC Symbol;Acc:VGNC:75485]	-	2.409322281	0.003439003	0.021812457

ENSMMUG00000056045		-	2.400482347	0.000273788	0.002748683
ENSMMUG00000015143	F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]	-2.39770461	-	0.00060832	0.005360323
ENSMMUG00000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	-	2.396870892	0.000143113	0.001609427
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	-	2.378561899	0.000869189	0.007206655
ENSMMUG00000055229		-	2.360558697	7.55E-06	0.000129078
ENSMMUG00000015018	CD5 molecule [Source:VGNC Symbol;Acc:VGNC:70770]	-	2.335061932	0.004965665	0.029233872
ENSMMUG00000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]	-	2.313328265	0.000221246	0.002309467
ENSMMUG00000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-	2.310502585	1.77E-09	7.60E-08
ENSMMUG00000057697		-	2.308643159	0.00641688	0.035421175
ENSMMUG00000062527		-	2.305751364	6.76E-17	1.02E-14
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	-	2.300017261	5.44E-06	9.75E-05
ENSMMUG00000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	-	2.298687887	2.66E-06	5.23E-05
ENSMMUG00000015317	HD domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73209]	-	2.295484745	1.19E-06	2.59E-05
ENSMMUG00000065099		-	2.291331323	0.000264028	0.002670458
ENSMMUG00000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	-	2.289750197	6.39E-22	2.36E-19
ENSMMUG00000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	-	2.279883027	2.44E-06	4.89E-05
ENSMMUG00000057494	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]	-	2.271138396	4.28E-05	0.00055583
ENSMMUG00000018901	FYVE, RhoGEF and PH domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72548]	-2.26748892	-	3.82E-08	1.24E-06
ENSMMUG00000060167		-	2.263931238	0.000327018	0.003177306
ENSMMUG00000059575		-	2.263628878	1.05E-08	3.87E-07
ENSMMUG00000007398	potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]	-	2.238125447	0.001693746	0.012491376
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	-	2.234555836	6.15E-05	0.000766596
ENSMMUG00000032973	mml-mir-550 [Source:miRBase;Acc:MI0007826]	-	2.228292394	0.007816802	0.041327532
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	-	2.210496938	3.50E-06	6.66E-05
ENSMMUG00000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	-2.20927233	-	4.68E-06	8.56E-05
ENSMMUG00000053233		-	2.204173594	0.004855098	0.028795597
ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	-2.20339326	-	1.11E-05	0.000176836
ENSMMUG00000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]	-	2.198760309	6.58E-05	0.000811332
ENSMMUG00000023803	myosin heavy chain 10 [Source:NCBI gene;Acc:721979]	-	2.196956599	9.75E-09	3.64E-07
ENSMMUG00000022256	transglutaminase 5 [Source:VGNC Symbol;Acc:VGNC:78341]	-2.19233779	-	0.001168695	0.009274383

ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]	2.172119185	0.003046998	0.019894673
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	-2.1704264	9.72E-20	2.73E-17
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	2.150911083	0.000658285	0.005726235
ENSMMUG000000060744		2.133159362	0.003053292	0.019903848
ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]	2.132401955	1.09E-22	4.66E-20
ENSMMUG00000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	2.124015147	5.84E-05	0.000734036
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]	2.115951118	0.002593427	0.017494351
ENSMMUG00000015590	siah E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77215]	2.096516455	0.000142055	0.001601068
ENSMMUG000000051482		2.095546342	0.000247955	0.002549055
ENSMMUG00000014697	nuclear factor I B [Source:VGNC Symbol;Acc:VGNC:75335]	2.086306624	1.82E-06	3.78E-05
ENSMMUG00000021034	complement C6 [Source:VGNC Symbol;Acc:VGNC:70477]	2.079495725	9.61E-11	5.18E-09
ENSMMUG00000062623	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.077451008	0.001594873	0.011943514
ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	2.076627217	1.40E-09	6.18E-08
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	-2.07530272	0.00258737	0.017481086
ENSMMUG00000021499	sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]	2.066112657	0.005430809	0.031276366
ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]	2.048182741	0.000231293	0.002398965
ENSMMUG00000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	2.041564556	1.67E-05	0.000250564
ENSMMUG00000022680	alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]	2.033311632	0.001016913	0.008239592
ENSMMUG00000061536		2.031908837	0.006533091	0.036038227
ENSMMUG00000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	-2.02070095	0.003014181	0.019712017
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	2.013321902	1.23E-07	3.36E-06
ENSMMUG000000055392		2.006034886	0.005902099	0.033232983
ENSMMUG000000058942		1.986441741	1.56E-06	3.29E-05
ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	1.973599144	0.00014883	0.00165769
ENSMMUG00000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	1.972723372	1.74E-18	3.64E-16
ENSMMUG000000050975		-1.96905193	0.00663115	0.036455653
ENSMMUG000000040771		1.962915214	0.002966027	0.019475316
ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	-1.95830583	0.000418646	0.003914802
ENSMMUG000000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-1.95607071	4.91E-05	0.000626704
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	1.942656654	0.000346977	0.00333935
ENSMMUG00000017246	lipoygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	1.933402416	1.72E-05	0.000255321

ENSMMUG00000022372	cytochrome b561 family member A3 [Source:VGNC Symbol;Acc:VGNC:71458]	-	1.927503285	1.78E-08	6.30E-07
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	-	1.918205873	2.12E-08	7.31E-07
ENSMMUG00000050239		-	1.914117335	0.003158053	0.020374695
ENSMMUG00000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]	-	1.913665473	5.32E-09	2.06E-07
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	-	1.913490951	0.001916858	0.01378715
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	-	1.909339481	0.000832576	0.006974105
ENSMMUG00000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]	-	1.892745155	2.08E-05	0.000298337
ENSMMUG00000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	-	1.892118689	1.49E-17	2.70E-15
ENSMMUG00000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]	-	-1.88968787	0.004577373	0.027545432
ENSMMUG00000052377		-	1.884413712	1.81E-10	9.32E-09
ENSMMUG00000059525		-	1.878843221	0.000785375	0.006640215
ENSMMUG00000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	-	1.877853437	1.42E-06	3.02E-05
ENSMMUG00000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]	-	1.877491661	2.20E-05	0.000311943
ENSMMUG00000054064		-	1.871472305	2.18E-07	5.61E-06
ENSMMUG00000051042		-	1.865795514	3.56E-06	6.76E-05
ENSMMUG00000064131		-	1.859799447	0.001023376	0.008282635
ENSMMUG00000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]	-	1.850930865	2.92E-05	0.000395461
ENSMMUG00000052031		-	1.848904715	0.007034747	0.038007238
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	-	1.847356994	8.98E-08	2.56E-06
ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	-	1.846884828	0.00145694	0.011096733
ENSMMUG00000060346		-	1.844496654	0.004917583	0.02904965
ENSMMUG00000016004	acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]	-	1.835070593	0.005997539	0.03363083
ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]	-	1.827257592	0.005429023	0.031276366
ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	-	1.826171805	0.007675302	0.040764714
ENSMMUG00000010312	shroom family member 1 [Source:VGNC Symbol;Acc:VGNC:77299]	-	1.813886291	4.25E-07	1.03E-05
ENSMMUG00000003282	phosphodiesterase 6B [Source:VGNC Symbol;Acc:VGNC:75920]	-	1.813865009	0.003262967	0.020918961
ENSMMUG00000010647	inducible T cell costimulator ligand [Source:NCBI gene;Acc:722191]	-	1.807740988	0.001835096	0.013340491
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	-	1.803017247	1.27E-05	0.000198194
ENSMMUG00000064804		-	1.801383971	0.005130015	0.030070971

ENSMMUG00000049661	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.799524827	0.000600893	0.005306369
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]	-	1.799436542	5.94E-06	0.0001049
ENSMMUG00000022305	Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]	-	1.797577989	1.94E-09	8.26E-08
ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]	-	-1.7927897	0.008723773	0.045045213
ENSMMUG00000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	-	1.784066219	0.004086334	0.025132021
ENSMMUG00000054417		-	1.781226612	8.48E-10	3.95E-08
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	-	1.777681022	0.002213726	0.01555147
ENSMMUG00000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	-	1.769713866	0.004920102	0.02904965
ENSMMUG00000012129	tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]	-	1.761556569	1.50E-06	3.18E-05
ENSMMUG00000006731	CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]	-	1.753487313	0.001881646	0.013606008
ENSMMUG00000022602	methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]	-	-1.75194102	0.000470333	0.004327065
ENSMMUG00000016860	zinc finger protein 490 [Source:NCBI gene;Acc:100426568]	-	1.745062221	0.006701165	0.036707927
ENSMMUG00000053384		-	1.740769457	2.96E-08	9.92E-07
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	-	-1.74015446	0.001146593	0.009134596
ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]	-	1.733515989	0.001983494	0.014166321
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]	-	1.729585524	0.000833614	0.006975624
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	-	1.727404189	0.007949698	0.04197564
ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	-	1.727279724	7.50E-07	1.70E-05
ENSMMUG00000002894	dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]	-	1.700962696	0.001723448	0.012653121
ENSMMUG00000064529		-	1.698252519	4.84E-06	8.83E-05
ENSMMUG00000060168		-	-1.69322201	0.002899125	0.019190793
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]	-	1.690008805	0.005792735	0.032802457
ENSMMUG00000051641		-	1.686208483	0.005273967	0.030737752
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	-	1.684543131	0.000209101	0.002196773
ENSMMUG00000055477		-	1.681622178	0.000190458	0.002032382
ENSMMUG00000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	-	1.677116144	4.91E-09	1.92E-07
ENSMMUG00000005622	dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]	-	1.675157853	1.51E-07	4.04E-06
ENSMMUG00000018566	Janus kinase 1 [Source:VGNC Symbol;Acc:VGNC:73810]	-	1.668945738	4.54E-10	2.19E-08
ENSMMUG00000020821	testis expressed 15, meiosis and synapsis associated [Source:VGNC Symbol;Acc:VGNC:78318]	-	1.662457199	1.69E-08	6.02E-07
ENSMMUG00000014314	ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]	-	1.660678525	2.89E-07	7.24E-06

ENSMMUG00000050458		-	1.656311268	2.52E-07	6.39E-06
ENSMMUG00000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	-	1.654790944	4.47E-12	3.16E-10
ENSMMUG00000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]	-	1.651076769	0.000111831	0.001292498
ENSMMUG00000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]	-	1.644893806	1.39E-05	0.000214681
ENSMMUG00000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	-	1.636855075	0.002120091	0.014997201
ENSMMUG000000057501		-	1.631024505	0.004942313	0.029138535
ENSMMUG00000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	-	1.624926841	3.47E-05	0.000458725
ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	-	1.622944944	4.36E-05	0.000564842
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	-	1.620597234	0.003806419	0.023766765
ENSMMUG000000031296	caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]	-	1.619019499	2.34E-06	4.72E-05
ENSMMUG000000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	-	1.617499436	1.51E-09	6.59E-08
ENSMMUG000000052651	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.616811765	0.002754745	0.018399617
ENSMMUG00000017351	stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]	-	1.616737108	1.23E-05	0.000193364
ENSMMUG00000017259	DnaJ heat shock protein family (Hsp40) member C6 [Source:NCBI gene;Acc:698682]	-	1.614035645	0.006125166	0.034205146
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	-	1.610790019	0.000859097	0.007144812
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	-	1.610765406	7.51E-05	0.000910038
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	-	1.604163753	1.87E-06	3.87E-05
ENSMMUG000000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.602026847	0.004837384	0.028727921
ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]	-	1.600231386	0.004707194	0.02809822
ENSMMUG00000040854	aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]	-	1.590181118	0.00534471	0.031038963
ENSMMUG00000012110	smoothed, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	-	1.590001091	0.006714082	0.036737942
ENSMMUG00000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	-	1.586366912	0.002565558	0.017363901
ENSMMUG000000005634	ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]	-	1.586070701	0.001112347	0.008914107
ENSMMUG000000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]	-	1.584883608	0.002551431	0.017311456
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	-	-1.58467028	0.001585557	0.011887295
ENSMMUG000000050177		-	-1.58322339	0.007095809	0.038159895
ENSMMUG00000016753	dynein axonemal heavy chain 3 [Source:VGNC Symbol;Acc:VGNC:71941]	-	1.581243488	5.33E-07	1.25E-05
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	-	1.579051654	9.29E-08	2.62E-06
ENSMMUG00000004709	proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]	-	1.577939774	0.003547972	0.022410849

ENSMMUG00000022359	solute carrier family 38 member 2 [Source:VGNC Symbol;Acc:VGNC:77469]	-	1.574161105	0.000458765	0.004234994
ENSMMUG00000031853	RAB5B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81546]	-	1.567945656	0.003111229	0.020088525
ENSMMUG00000021459	MYC binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75011]	-	-1.5637753	0.000213458	0.002236772
ENSMMUG00000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	-	1.559041219	0.000742285	0.0063351
ENSMMUG00000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	-	1.558133815	2.27E-05	0.000319983
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	-	1.555856389	0.000177985	0.001924509
ENSMMUG00000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	-	1.554468107	5.62E-08	1.75E-06
ENSMMUG00000023401	adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]	-	1.554092847	0.004091231	0.025140228
ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]	-	1.549134576	3.88E-06	7.25E-05
ENSMMUG00000003394	cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]	-	-1.54750828	3.75E-05	0.00049163
ENSMMUG00000006713	cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]	-	1.539087105	1.17E-05	0.000185949
ENSMMUG000000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	-	-1.5384908	0.000867488	0.007199888
ENSMMUG00000042707	angiopoietin like 6 [Source:NCBI gene;Acc:106994633]	-	1.536288155	1.63E-06	3.41E-05
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	-	1.532451389	0.000173485	0.001880843
ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]	-	1.530842905	0.000654158	0.00569642
ENSMMUG00000061761	interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]	-	1.527474833	8.61E-06	0.000143061
ENSMMUG00000020928	nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]	-	1.527023091	0.002213151	0.01555147
ENSMMUG00000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	-	1.525711357	1.49E-08	5.38E-07
ENSMMUG00000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	-	1.518657996	3.73E-05	0.000490573
ENSMMUG00000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	-	1.517210863	0.002645027	0.017798187
ENSMMUG00000008965	piwi like RNA-mediated gene silencing 4 [Source:VGNC Symbol;Acc:VGNC:81504]	-	1.506453339	1.15E-10	6.10E-09
ENSMMUG00000012481	importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]	-	1.506227022	0.002090882	0.01481633
ENSMMUG00000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	-	1.503191243	0.007339391	0.039262367
ENSMMUG00000062006	methionyl aminopeptidase 2 [Source:NCBI gene;Acc:712400]	-	1.502927002	0.000675709	0.005859021
ENSMMUG00000062974		-	1.501313414	0.000905967	0.007465972
ENSMMUG00000012120	zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]	-	1.500280997	0.001144101	0.009123676
ENSMMUG00000012203	aryl hydrocarbon receptor [Source:NCBI gene;Acc:714254]	-	1.499835055	1.88E-05	0.000274537
ENSMMUG00000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]	-	1.495401822	0.000321712	0.003136978
ENSMMUG00000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	-	1.493585335	0.000892255	0.007372018

ENSMMUG00000064237		-	1.492710438	0.008556216	0.044437546
ENSMMUG0000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	-	1.492227586	0.001476274	0.011212521
ENSMMUG00000054683	dynein axonemal heavy chain 12 [Source:NCBI gene;Acc:703670]	-	1.491896801	0.000457596	0.004229
ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]	-	1.488923558	1.48E-05	0.000225027
ENSMMUG00000010601	solute carrier family 43 member 3 [Source:NCBI gene;Acc:706267]	-	1.483423751	0.00613693	0.034223895
ENSMMUG00000046237	4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]	-	1.474556726	0.000433645	0.004030521
ENSMMUG00000054711		-	1.473857341	0.00828396	0.04337492
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]	-	1.473010504	2.36E-06	4.74E-05
ENSMMUG00000046901	protein tyrosine phosphatase 4A2 [Source:NCBI gene;Acc:706489]	-	1.472879915	0.00131503	0.010245906
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	-	1.470886322	0.001441847	0.011002362
ENSMMUG00000000413	solute carrier family 7 member 7 [Source:VGNC Symbol;Acc:VGNC:77631]	-	1.470113033	0.000103004	0.001199795
ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	-	1.463589591	8.90E-07	1.97E-05
ENSMMUG00000014307	myostatin [Source:VGNC Symbol;Acc:VGNC:74870]	-	1.462630868	0.000590895	0.005236212
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]	-	1.457809709	5.57E-07	1.30E-05
ENSMMUG00000002121	armadillo like helical domain containing 4 [Source:VGNC Symbol;Acc:VGNC:82106]	-	-1.45612719	0.000170761	0.001858736
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	-	1.453922346	0.001473737	0.011203707
ENSMMUG00000008795	polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]	-	1.450716779	0.004860167	0.028800205
ENSMMUG00000017549	ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]	-	1.448730305	7.44E-08	2.20E-06
ENSMMUG00000014394	DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]	-	1.446967743	1.91E-06	3.93E-05
ENSMMUG00000057544		-	1.442545713	0.000557684	0.00497334
ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]	-	-1.4416286	0.000492034	0.004471143
ENSMMUG00000004849	casein beta [Source:VGNC Symbol;Acc:VGNC:71523]	-	1.436735029	0.002461375	0.016798421
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	-	1.432490706	0.000239429	0.002477043
ENSMMUG00000012218	calmodulin regulated spectrin associated protein family member 2 [Source:VGNC Symbol;Acc:VGNC:70666]	-	1.428607025	0.00401826	0.024822967
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	-	1.427773503	1.84E-05	0.000269419
ENSMMUG00000049999	cone-rod homeobox [Source:NCBI gene;Acc:717550]	-	1.427174967	0.001554214	0.011684592
ENSMMUG00000065128	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.419767152	0.001906341	0.013747389
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]	-	1.419129786	4.90E-09	1.92E-07
ENSMMUG00000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	-	1.415352889	4.65E-06	8.53E-05

ENSMMUG00000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	-	1.414449195	2.00E-13	1.79E-11
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	-	1.410750782	1.49E-05	0.000226117
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	-	1.410367902	0.008242044	0.04321861
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	-	1.397880683	2.27E-05	0.000319983
ENSMMUG00000008916	transferrin [Source:VGNC Symbol;Acc:VGNC:82716]	-	1.393953533	0.000940385	0.007695093
ENSMMUG00000013812	ubiquitin specific peptidase 44 [Source:VGNC Symbol;Acc:VGNC:79221]	-	1.393336937	0.000179719	0.0019396
ENSMMUG00000023811	boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]	-	1.391321526	0.008910088	0.045828134
ENSMMUG00000009038	titin [Source:NCBI gene;Acc:703527]	-	1.391200196	0.007339345	0.039262367
ENSMMUG00000005895	nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]	-	-1.38561674	0.005369892	0.031140785
ENSMMUG00000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]	-	1.383471554	0.000152708	0.001687037
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	-	1.381482863	0.000732619	0.006259164
ENSMMUG00000055447	MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]	-	1.380806139	6.48E-07	1.50E-05
ENSMMUG00000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	-	1.379145881	3.28E-05	0.000435589
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	-	1.375699665	0.000150373	0.001672174
ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]	-	1.374908682	3.69E-08	1.21E-06
ENSMMUG000000042798		-	1.372603019	0.001952583	0.013994658
ENSMMUG00000030453	NLR family pyrin domain containing 1 [Source:NCBI gene;Acc:721648]	-	1.368508476	2.89E-06	5.62E-05
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	-	1.368422846	0.002301099	0.016026987
ENSMMUG00000023679	tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]	-	1.363928552	0.003425416	0.021788857
ENSMMUG00000056116		-	-1.36154051	0.005319354	0.030935842
ENSMMUG00000058836	transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]	-	1.361228424	0.002669299	0.017887596
ENSMMUG00000023676	espin [Source:NCBI gene;Acc:722532]	-	1.356152881	1.36E-05	0.000210886
ENSMMUG00000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]	-	1.354783348	9.77E-06	0.000158522
ENSMMUG00000052574		-	1.354449348	0.000140228	0.00158355
ENSMMUG00000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]	-	1.350342206	0.004074559	0.025094601
ENSMMUG00000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]	-	1.346963126	0.001354726	0.010425499
ENSMMUG00000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	-	1.346642227	2.79E-07	7.02E-06
ENSMMUG00000064114	zinc finger protein 709 [Source:NCBI gene;Acc:100427466]	-	1.346351862	0.004440896	0.026983413
ENSMMUG00000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	-	1.345159475	0.00591019	0.033255538

ENSMMUG00000017379	myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]	-	1.344745392	0.006354265	0.03514703
ENSMMUG00000046195	MIS12 kinetochore complex component [Source:NCBI gene;Acc:712202]	-	1.343135367	0.009350954	0.047614426
ENSMMUG00000021393	calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]	-	1.340302448	0.009701692	0.049093334
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	-	1.338988446	0.000320409	0.003128019
ENSMMUG00000018415	Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]	-	1.335753408	0.003932921	0.024438272
ENSMMUG00000018738	alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]	-	1.331386633	6.12E-06	0.000107425
ENSMMUG00000051966		-	-1.33070324	0.005938641	0.033346496
ENSMMUG00000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	-	1.321936756	0.000254913	0.002607412
ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	-	1.319618765	1.94E-11	1.20E-09
ENSMMUG00000008781	BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]	-	1.319357672	0.001892851	0.013674886
ENSMMUG00000007310	solute carrier family 25 member 12 [Source:VGNC Symbol;Acc:VGNC:77430]	-	1.316072775	0.00233499	0.016193774
ENSMMUG00000065301		-	1.314402349	0.004959877	0.029220925
ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]	-	1.311778672	1.23E-06	2.66E-05
ENSMMUG00000006310	solute carrier family 3 member 1 [Source:VGNC Symbol;Acc:VGNC:77462]	-	1.306625184	0.005484575	0.03151405
ENSMMUG00000064089		-	1.302186697	0.000278635	0.002785656
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	-	1.302181655	0.000411041	0.003860091
ENSMMUG00000004467	X-ray repair cross complementing 1 [Source:NCBI gene;Acc:711457]	-	1.301135178	0.004606649	0.027680689
ENSMMUG00000060439	schlafen family member 12 like [Source:NCBI gene;Acc:106992394]	-	1.298901481	0.001524108	0.011511401
ENSMMUG00000047594		-	-1.29452846	0.004787123	0.028470965
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	-	1.293854678	0.008803854	0.045396441
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	-	1.292740755	1.05E-08	3.87E-07
ENSMMUG00000053541		-	1.290967401	0.003866958	0.024089341
ENSMMUG00000054719		-	1.289483416	0.00910895	0.046586101
ENSMMUG00000018814	diacylglycerol kinase alpha [Source:VGNC Symbol;Acc:VGNC:71780]	-	1.280915234	1.20E-06	2.61E-05
ENSMMUG00000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]	-	1.277819766	0.001657553	0.01232493
ENSMMUG00000020784	centrosomal protein 126 [Source:NCBI gene;Acc:701911]	-	1.274513279	3.85E-09	1.54E-07
ENSMMUG00000012156	zinc finger CCHC-type containing 17 [Source:VGNC Symbol;Acc:VGNC:79840]	-	1.274256745	1.89E-06	3.90E-05
ENSMMUG00000007570	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	-	1.273853507	3.20E-06	6.11E-05
ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]	-	1.268464308	0.000502726	0.004547998

ENSMMUG00000013093	uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]	-	1.268253944	1.40E-09	6.18E-08
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	-	1.265286445	0.001534443	0.011567995
ENSMMUG00000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]	-	1.262293443	0.000380284	0.003617141
ENSMMUG00000010321	C2 domain containing 3 centriole elongation regulator [Source:VGNC Symbol;Acc:VGNC:70375]	-	-1.26146963	6.81E-05	0.000832999
ENSMMUG00000012486	retinoic acid receptor alpha [Source:VGNC Symbol;Acc:VGNC:76662]	-	1.260613545	0.003905074	0.024289621
ENSMMUG00000021169	translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]	-	1.258865366	0.006343356	0.03511054
ENSMMUG00000003051	COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]	-	1.258507003	3.98E-08	1.29E-06
ENSMMUG00000008919	RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]	-	1.255804361	0.008296146	0.043410811
ENSMMUG00000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]	-	1.255145215	0.001326831	0.010298437
ENSMMUG00000049997		-	1.254398427	0.007426252	0.039613053
ENSMMUG00000007411	integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]	-	1.254342009	9.38E-06	0.000152772
ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	-	1.253973496	0.000908762	0.007481439
ENSMMUG00000021216	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]	-	1.253349889	0.002817054	0.018738935
ENSMMUG00000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]	-	1.251881982	0.001754277	0.012856274
ENSMMUG000000058740		-	1.246818095	0.000722855	0.006208321
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	-	1.246117968	1.99E-05	0.00028884
ENSMMUG00000003261	BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]	-	1.245867134	0.00015415	0.00169836
ENSMMUG00000014350	MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]	-	1.245778184	0.006637198	0.036464284
ENSMMUG00000008918	SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]	-	1.245546436	0.00501988	0.029510373
ENSMMUG00000007424	nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]	-	1.242646072	7.40E-06	0.000126882
ENSMMUG00000013601	chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]	-	1.239318186	0.000180887	0.00194683
ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	-	1.238444285	0.006903589	0.037522711
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	-	1.232334939	7.74E-06	0.000131557
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]	-	1.225505252	1.27E-07	3.45E-06
ENSMMUG00000015604	myosin binding protein C3 [Source:VGNC Symbol;Acc:VGNC:75094]	-	-1.22464689	0.003072039	0.019978068
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]	-	1.223330807	0.000812589	0.006841881
ENSMMUG00000008396	methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]	-	1.221313673	2.05E-05	0.000296741
ENSMMUG00000011850	cadherin 1 [Source:VGNC Symbol;Acc:VGNC:70803]	-	1.221266209	0.000375902	0.003583835
ENSMMUG00000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.217212383	0.000593946	0.005250714

ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	-1.21441396	0.000192462	0.002051086
ENSMMUG00000057209		1.214118986	0.004631044	0.027774712
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]	1.212366966	0.003435573	0.021812457
ENSMMUG00000055970		1.210474915	0.007177501	0.038548291
ENSMMUG00000007692	apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]	1.209189436	1.35E-06	2.89E-05
ENSMMUG00000021572	solute carrier family 39 member 9 [Source:VGNC Symbol;Acc:VGNC:77523]	1.208786289	0.00010171	0.001186425
ENSMMUG00000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]	1.206425698	8.68E-06	0.000143913
ENSMMUG00000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]	1.204704152	0.000709982	0.006123594
ENSMMUG00000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	1.203293855	0.006313581	0.034993314
ENSMMUG00000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	1.200335085	0.008248799	0.04321861
ENSMMUG00000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]	1.198718754	7.57E-05	0.000916404
ENSMMUG00000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	1.196669056	0.00041879	0.003914802
ENSMMUG00000017276	nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]	1.196526281	0.001101687	0.008854824
ENSMMUG00000021496	potassium sodium-activated channel subfamily T member 1 [Source:VGNC Symbol;Acc:VGNC:73856]	1.193964608	0.004426506	0.026916066
ENSMMUG00000022624	putative speedy protein E16 [Source:NCBI gene;Acc:718058]	1.192416413	0.008877845	0.045748995
ENSMMUG00000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]	1.191815156	0.001268674	0.009932251
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	1.191404608	0.002896663	0.019190096
ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]	1.189554156	1.27E-08	4.63E-07
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	1.187042418	1.60E-07	4.25E-06
ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]	1.181082474	0.004003012	0.024747552
ENSMMUG00000049939		1.176777578	4.54E-05	0.000584663
ENSMMUG00000009425	actin, cytoplasmic 2-like [Source:NCBI gene;Acc:705671]	1.176341242	0.006776368	0.037028986
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	1.176230614	2.89E-05	0.000393522
ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]	1.175271617	5.46E-08	1.71E-06
ENSMMUG00000023226	RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]	1.169725246	0.000970461	0.00790149
ENSMMUG00000058580	tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]	1.168609593	0.003233345	0.020794545
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	1.165274318	5.06E-07	1.21E-05
ENSMMUG00000020412	parkin coregulated [Source:VGNC Symbol;Acc:VGNC:75646]	1.161025694	0.00687885	0.037463275
ENSMMUG00000032427	neuroligin 3 [Source:NCBI gene;Acc:574216]	1.160637798	8.23E-05	0.000987322

ENSMMUG00000061239		-	1.157108546	0.005963615	0.03346365
ENSMMUG00000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	-	1.156975979	3.75E-05	0.00049163
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	-	-1.15554195	0.000717301	0.006173638
ENSMMUG00000017025	zinc finger CCCH-type containing 13 [Source:VGNC Symbol;Acc:VGNC:79248]	-	-1.15524263	0.002990962	0.019607417
ENSMMUG00000063348		-	1.150830551	0.004183273	0.02565907
ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]	-	1.150643323	0.000258417	0.002636627
ENSMMUG00000013094	lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]	-	1.149463208	5.54E-08	1.73E-06
ENSMMUG00000022202	basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]	-	1.145422918	0.00172026	0.012652464
ENSMMUG00000058142		-	1.144988169	0.001161189	0.009232815
ENSMMUG00000020436	potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]	-	1.143462199	2.45E-06	4.89E-05
ENSMMUG00000010304	cilia and flagella associated protein 298 [Source:NCBI gene;Acc:700721]	-	1.142929143	2.88E-05	0.00039345
ENSMMUG00000048232	MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]	-	1.142752643	0.007406922	0.039571628
ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]	-	1.141837653	0.002589313	0.017481086
ENSMMUG00000007077	APOBEC1 complementation factor [Source:VGNC Symbol;Acc:VGNC:69523]	-	1.135837672	0.000750824	0.006394573
ENSMMUG00000012761	sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]	-	1.133957779	0.000427798	0.003989841
ENSMMUG00000044759		-	1.133476039	0.002997316	0.019631675
ENSMMUG00000053298		-	1.127532629	0.001487571	0.011266792
ENSMMUG00000022044	scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]	-	1.125615882	0.005090044	0.029858167
ENSMMUG00000054462		-	1.125061418	0.000314229	0.003083641
ENSMMUG00000000388	plectin [Source:VGNC Symbol;Acc:VGNC:76173]	-	1.124972378	0.003706762	0.023305372
ENSMMUG00000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	-	1.122779742	4.78E-05	0.000611371
ENSMMUG00000049945		-	1.122365812	0.004670149	0.02793854
ENSMMUG00000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]	-	1.120843347	0.000396565	0.003754454
ENSMMUG00000003260		-	1.119140626	0.003618994	0.022771133
ENSMMUG00000050418	superoxide dismutase 2 [Source:NCBI gene;Acc:574097]	-	-1.11848053	0.000524157	0.004710469
ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]	-	1.113615831	0.003254228	0.020879374
ENSMMUG00000060215	Y RNA [Source:RFAM;Acc:RF00019]	-	1.112174432	0.001782036	0.013024538
ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	-	1.110318101	0.003721763	0.023381631
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	-	1.109839905	0.005579905	0.031770338

ENSMMUG00000038288	TMEM9 domain family member B [Source:NCBI gene;Acc:708447]	-	1.109402213	0.000386829	0.003675104
ENSMMUG00000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]	-	1.105855897	0.007280977	0.039042781
ENSMMUG00000059327	NUS1 dehydrodolichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]	-	1.103246537	0.000548117	0.00489876
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	-	1.100510393	2.70E-05	0.000372976
ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	-	1.098783337	0.000143577	0.001612419
ENSMMUG00000021420	pleckstrin 2 [Source:VGNC Symbol;Acc:VGNC:76071]	-	1.096657851	0.000302377	0.00299067
ENSMMUG00000018685	chromodomain helicase DNA binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71029]	-	1.095874638	7.30E-07	1.66E-05
ENSMMUG00000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	-	1.095488435	0.000286334	0.002857026
ENSMMUG00000055590		-	1.095430393	0.00316231	0.020386008
ENSMMUG00000004603	zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]	-	-1.09534618	0.000272623	0.002740365
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	-	1.093713242	0.000314664	0.003083641
ENSMMUG00000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]	-	1.091972668	0.001874101	0.013563496
ENSMMUG00000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]	-	1.091927251	0.001774513	0.012981211
ENSMMUG00000004614	potassium voltage-gated channel subfamily C member 4 [Source:VGNC Symbol;Acc:VGNC:73974]	-	1.088368519	0.003408281	0.021713788
ENSMMUG00000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	-	1.088301009	0.001432639	0.010942354
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]	-	1.088260278	7.65E-05	0.000922557
ENSMMUG000000043809	caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]	-	1.085267473	0.007736303	0.040938669
ENSMMUG00000008941	DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]	-	1.084725768	8.60E-06	0.000143061
ENSMMUG000000041976	zinc finger protein 780B [Source:NCBI gene;Acc:701034]	-	1.083445903	0.001120399	0.0089698
ENSMMUG000000061085		-	1.083315405	0.000821719	0.006897353
ENSMMUG00000020992	calcineurin binding protein 1 [Source:NCBI gene;Acc:700566]	-	1.082991945	2.17E-05	0.00030817
ENSMMUG000000051286		-	-1.08162121	0.001351806	0.010419168
ENSMMUG00000012036	RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]	-	-1.07796213	0.000160511	0.001761298
ENSMMUG000000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]	-	1.077921431	0.000295361	0.002936958
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]	-	1.077813033	0.004210772	0.025777524
ENSMMUG00000008313	zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]	-	1.073299507	0.000157807	0.001733963
ENSMMUG00000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	-	1.070992207	1.73E-05	0.000256939
ENSMMUG00000008713	myosin binding protein H like [Source:NCBI gene;Acc:698183]	-	1.070773506	0.000469972	0.004327065
ENSMMUG00000011593	regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]	-	1.067895528	0.002600129	0.017525042

ENSMMUG00000019665	SURP and G-patch domain containing 2 [Source:VGNC Symbol;Acc:VGNC:78163]	-	1.065821602	1.12E-07	3.08E-06
ENSMMUG00000006669	ubiquitin protein ligase E3 component n-recognin 4 [Source:VGNC Symbol;Acc:VGNC:79845]	-	1.065573873	0.000121168	0.001385602
ENSMMUG00000019265	zinc finger protein 575 [Source:VGNC Symbol;Acc:VGNC:79667]	-	1.064754392	0.00890293	0.045820261
ENSMMUG00000011893	KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]	-	1.064486266	0.008243866	0.04321861
ENSMMUG00000014884	ubiquitin specific peptidase 8 [Source:VGNC Symbol;Acc:VGNC:78748]	-	1.059936927	2.52E-05	0.000350931
ENSMMUG00000010878	adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]	-	1.059845602	0.002903085	0.019201397
ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]	-	1.057687912	0.009747194	0.049231793
ENSMMUG00000017725	eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]	-	1.057588577	4.08E-05	0.00053095
ENSMMUG00000021782	LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]	-	1.057393234	9.73E-05	0.001140142
ENSMMUG00000018282	interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]	-	-1.05522291	0.00081258	0.006841881
ENSMMUG00000029176	Rho GTPase activating protein 17 [Source:NCBI gene;Acc:701988]	-	1.054795574	8.99E-06	0.00014817
ENSMMUG00000059973		-	1.054354202	0.001141248	0.009109847
ENSMMUG00000059353	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]	-	1.054323249	0.00016995	0.001852389
ENSMMUG00000062784		-	1.052679872	0.000563385	0.005018687
ENSMMUG00000015347	protein kinase, DNA-activated, catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76418]	-	1.049423521	5.29E-07	1.25E-05
ENSMMUG00000043504		-	1.049359563	0.002892282	0.019190096
ENSMMUG00000010978	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]	-	1.048535361	0.004471413	0.027098676
ENSMMUG00000014691	inhibitor of DNA binding 4, HLH protein [Source:VGNC Symbol;Acc:VGNC:73557]	-	1.046591986	3.49E-05	0.000460369
ENSMMUG00000047974	aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]	-	-1.04527774	6.77E-06	0.000118251
ENSMMUG00000018051	FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]	-	1.044246636	1.07E-05	0.00017202
ENSMMUG00000037975	solute carrier family 7 member 6 [Source:NCBI gene;Acc:702903]	-	1.043367816	0.000783086	0.00662774
ENSMMUG00000042157	caspase recruitment domain-containing protein 8 [Source:NCBI gene;Acc:718594]	-	1.036326972	0.000572644	0.005091326
ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]	-	-1.03324873	0.001838111	0.013350494
ENSMMUG00000018279	adaptor related protein complex 5 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69868]	-	1.030960762	0.002298612	0.016023375
ENSMMUG00000051468	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.029060265	0.001323182	0.010279909
ENSMMUG00000006340	solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]	-	1.028624531	6.73E-05	0.000825507
ENSMMUG00000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	-	1.026797143	0.001139531	0.009105067
ENSMMUG00000016893	solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]	-	1.026685936	0.002560857	0.017360947
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	-	1.026402784	0.00133274	0.010321967

ENSMMUG0000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	-	1.023809745	0.000683638	0.005921465
ENSMMUG00000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]	-	1.023640703	8.51E-05	0.001014119
ENSMMUG00000061892		-	1.022902895	0.004242001	0.025949191
ENSMMUG00000022303	solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]	-	1.022227309	9.26E-06	0.000151158
ENSMMUG00000003462	ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]	-	1.021041674	0.002407842	0.016530057
ENSMMUG00000011274	prolyl 4-hydroxylase subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:75741]	-	1.020858924	0.004746562	0.028312461
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	-	1.017214026	0.003780332	0.023658311
ENSMMUG00000008785	E74 like ETS transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72208]	-	1.015625727	9.43E-10	4.29E-08
ENSMMUG00000021620	ELKS/RAB6-interacting/CAST family member 2 [Source:VGNC Symbol;Acc:VGNC:72164]	-	1.012958427	0.000860393	0.007148287
ENSMMUG00000016641	ubiquitin conjugating enzyme E2 B [Source:VGNC Symbol;Acc:VGNC:78692]	-	1.008764381	0.000252891	0.002589984
ENSMMUG00000006311	prolyl endopeptidase like [Source:VGNC Symbol;Acc:VGNC:76346]	-	1.004108098	7.09E-05	0.000865533
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]	-	1.003932778	0.004463461	0.027080101
ENSMMUG00000001537	apolipoprotein L2 [Source:VGNC Symbol;Acc:VGNC:69989]	-	0.998427859	0.001508498	0.011404073
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]	-	-0.99772489	0.000616623	0.00540425
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	-	0.994617409	0.003494679	0.022122558
ENSMMUG00000040958	lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]	-	0.992480144	0.004061429	0.025051634
ENSMMUG00000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	-	0.989727511	0.000270809	0.00272887
ENSMMUG00000057796	host cell factor C2 [Source:NCBI gene;Acc:700316]	-	0.986284792	4.48E-07	1.08E-05
ENSMMUG00000020510	kelch like family member 41 [Source:VGNC Symbol;Acc:VGNC:74062]	-	0.986083569	0.001721804	0.012652464
ENSMMUG00000023005	Sp9 transcription factor [Source:VGNC Symbol;Acc:VGNC:78027]	-	0.985533373	0.002154221	0.015225409
ENSMMUG00000019760	karyopherin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:74203]	-	0.977036664	0.00015536	0.001709378
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]	-	0.975357172	0.002030143	0.014461438
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	-	-0.97479285	0.000195205	0.002072173
ENSMMUG00000061834		-	0.974379535	0.007081873	0.038116607
ENSMMUG00000052781		-	0.973267603	0.000509925	0.004602888
ENSMMUG00000065031		-	0.972434816	0.001222092	0.009651089
ENSMMUG00000001518	zinc finger protein 518A [Source:VGNC Symbol;Acc:VGNC:79767]	-	0.971410481	2.05E-05	0.00029645
ENSMMUG00000060822		-	0.969588884	0.000153947	0.00169836
ENSMMUG00000021173	nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]	-	0.966861892	0.004284826	0.026189842

ENSMMUG00000057655		-	0.966724774	0.005377791	0.031142227
ENSMMUG00000023698	golgi SNAP receptor complex member 1 [Source:VGNC Symbol;Acc:VGNC:73110]	-	0.964945206	0.001503441	0.011376409
ENSMMUG00000022590	metallophosphoesterase domain containing 1 [Source:NCBI gene;Acc:715021]	-	-0.96423547	0.001305604	0.010182211
ENSMMUG00000056466		-	0.963095387	0.008405301	0.043841103
ENSMMUG00000001942	mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]	-	0.962001676	0.007642532	0.040617162
ENSMMUG00000011779	HEAT repeat containing 5A [Source:VGNC Symbol;Acc:VGNC:84347]	-	0.959646421	0.004481174	0.02712693
ENSMMUG00000014301	nectin cell adhesion molecule 2 [Source:VGNC Symbol;Acc:VGNC:75396]	-	0.957240227	3.85E-06	7.21E-05
ENSMMUG00000044214		-	0.955277672	0.009844739	0.049601404
ENSMMUG00000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	-	0.954629216	2.85E-05	0.000389297
ENSMMUG00000006861	dynein axonemal heavy chain 10 [Source:NCBI gene;Acc:710343]	-	0.951511544	0.002339702	0.016206703
ENSMMUG00000019250	solute carrier family 25 member 27 [Source:VGNC Symbol;Acc:VGNC:77543]	-	0.950082806	0.008964286	0.046048716
ENSMMUG00000020359	spectrin beta, non-erythrocytic 2 [Source:VGNC Symbol;Acc:VGNC:77872]	-	0.948025973	0.003050094	0.019898929
ENSMMUG00000049484		-	-0.94623568	0.00351871	0.022243276
ENSMMUG00000013707	heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]	-	0.945936192	9.25E-05	0.001087086
ENSMMUG00000009126	solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]	-	0.945587767	0.002315409	0.016099109
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	-	0.945295744	0.009084814	0.046521106
ENSMMUG00000057827		-	0.945258335	0.004909881	0.02904965
ENSMMUG00000009775	caveolae associated protein 4 [Source:NCBI gene;Acc:714379]	-	0.944286941	0.004802498	0.02854156
ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	-	0.941308202	0.008715662	0.045045213
ENSMMUG00000005136	TRPM8 channel associated factor 1 [Source:VGNC Symbol;Acc:VGNC:79346]	-	0.939495982	0.001768639	0.012949875
ENSMMUG00000065337		-	0.934446063	0.006122413	0.034205146
ENSMMUG00000000681	calmin [Source:VGNC Symbol;Acc:VGNC:71232]	-	0.932445281	0.001677834	0.012407743
ENSMMUG00000016286	protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]	-	0.930351235	0.002208797	0.015543669
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	-	0.928389216	5.89E-06	0.000104329
ENSMMUG00000019082	secreted frizzled related protein 1 [Source:VGNC Symbol;Acc:VGNC:77185]	-	0.925174563	0.007489193	0.039884612
ENSMMUG00000014438	piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]	-	0.922706835	0.004524173	0.02728579
ENSMMUG00000018289	proline rich transmembrane protein 3 [Source:VGNC Symbol;Acc:VGNC:76324]	-	0.922394362	0.001849014	0.013417709
ENSMMUG00000059986		-	0.922206754	0.003089411	0.020056691
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	-	0.917242979	2.27E-05	0.000320428

ENSMMUG00000015375	cadherin EGF LAG seven-pass G-type receptor 2 [Source:VGNC Symbol;Acc:VGNC:71149]	-0.91573525	3.04E-06	5.86E-05
ENSMMUG00000056064	serine and arginine rich splicing factor 1 [Source:NCBI gene;Acc:713958]	0.913813342	9.09E-07	2.00E-05
ENSMMUG00000022906	vascular cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:78761]	0.912185544	0.007429272	0.039613053
ENSMMUG00000045482	GO/G1 switch 2 [Source:NCBI gene;Acc:717581]	-0.91010994	6.08E-05	0.000760345
ENSMMUG00000043922	spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]	0.909755414	0.004404905	0.026804733
ENSMMUG00000009660	syntrophin gamma 2 [Source:VGNC Symbol;Acc:VGNC:77694]	0.902927785	0.006587637	0.036265407
ENSMMUG00000015380	proline and serine rich coiled-coil 1 [Source:VGNC Symbol;Acc:VGNC:76307]	0.901209149	0.001256879	0.009868382
ENSMMUG00000007078	N-acylsphingosine amidohydrolase 2 [Source:NCBI gene;Acc:703913]	0.897958014	0.000725355	0.006212272
ENSMMUG000000061176		0.897589902	0.000333622	0.003237609
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	0.896930201	0.004914735	0.02904965
ENSMMUG00000047381	DDB1 and CUL4 associated factor 10 [Source:NCBI gene;Acc:716256]	0.896882889	0.007291881	0.039059536
ENSMMUG00000030422	radial spoke head 10 homolog B [Source:NCBI gene;Acc:100424218]	0.894480414	0.002655329	0.017838029
ENSMMUG000000052496		0.889884208	0.000992585	0.008057457
ENSMMUG000000050018		0.887912136	0.001909641	0.013747389
ENSMMUG000000052418		-0.88687747	0.001253106	0.009857768
ENSMMUG00000011385	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma [Source:VGNC Symbol;Acc:VGNC:75998]	0.886110863	0.001228766	0.009694389
ENSMMUG00000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	0.883195408	0.009584913	0.048593003
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	0.881060928	0.00450237	0.027194584
ENSMMUG00000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]	0.879614782	1.45E-05	0.000222585
ENSMMUG00000040100	Fos proto-oncogene, AP-1 transcription factor subunit [Source:VGNC Symbol;Acc:VGNC:84340]	0.877149024	0.007042324	0.03801645
ENSMMUG00000064514	keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]	0.876694042	0.002181003	0.015374655
ENSMMUG000000052324	MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]	0.876146509	0.000360858	0.003452535
ENSMMUG000000063979		0.874105216	4.76E-05	0.000610755
ENSMMUG00000018542	leucyl and cystinyl aminopeptidase [Source:VGNC Symbol;Acc:VGNC:74438]	-0.87218727	0.000341355	0.003300849
ENSMMUG00000018319	thyroid hormone receptor interactor 11 [Source:VGNC Symbol;Acc:VGNC:78647]	0.871948243	0.004023812	0.024838424
ENSMMUG00000002096	N-acetylglucosamine kinase [Source:VGNC Symbol;Acc:VGNC:74977]	0.869255937	0.005269844	0.030735725
ENSMMUG00000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	0.861514271	0.002410086	0.016531523
ENSMMUG00000009837	SECIS binding protein 2 like [Source:VGNC Symbol;Acc:VGNC:77325]	0.859527293	0.000946927	0.007740839
ENSMMUG000000064395		0.853019519	0.002565438	0.017363901
ENSMMUG00000020377	collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]	0.850059183	0.007007124	0.037933514

ENSMMUG0000000962	H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]	-	0.848265543	0.002607072	0.017557301
ENSMMUG00000004013	chromosome 6 C5orf24 homolog [Source:VGNC Symbol;Acc:VGNC:70645]	-	0.845863358	0.001260089	0.009884047
ENSMMUG00000002310	zinc finger protein 577 [Source:VGNC Symbol;Acc:VGNC:79733]	-	0.845379192	0.00163792	0.012190074
ENSMMUG00000007724	aprataxin [Source:VGNC Symbol;Acc:VGNC:69838]	-	0.845105312	0.000474195	0.004356349
ENSMMUG00000013991	exonuclease 3'-5' domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72390]	-	0.841948821	0.001526812	0.011521134
ENSMMUG00000011963	vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]	-	0.832308548	8.94E-05	0.001054527
ENSMMUG00000007257	synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]	-	0.829831407	0.008730396	0.045046187
ENSMMUG00000012091	thioredoxin reductase 1 [Source:VGNC Symbol;Acc:VGNC:78679]	-	0.826671501	0.004575649	0.027545432
ENSMMUG00000022293	FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]	-	0.826474439	0.009905928	0.049786461
ENSMMUG00000018903	vezatin, adherens junctions transmembrane protein [Source:VGNC Symbol;Acc:VGNC:79120]	-	-0.82134149	0.009807147	0.049442593
ENSMMUG00000002777	protein tyrosine phosphatase 4A1 [Source:VGNC Symbol;Acc:VGNC:83452]	-	0.814611923	0.009858029	0.049606967
ENSMMUG00000013466	tetratricopeptide repeat domain 39B [Source:VGNC Symbol;Acc:VGNC:79402]	-	0.808070827	0.00141131	0.010809867
ENSMMUG00000018644	keratin 32 [Source:VGNC Symbol;Acc:VGNC:74216]	-	0.807117103	0.007690518	0.040818902
ENSMMUG00000007478	tankyrase 2 [Source:VGNC Symbol;Acc:VGNC:78983]	-	0.800220135	6.75E-05	0.000826996
ENSMMUG000000063615		-	0.793333323	0.000112339	0.001295561
ENSMMUG000000046282		-	0.790964441	0.009694352	0.0490867
ENSMMUG000000063655	sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]	-	0.785433162	0.000486073	0.004431812
ENSMMUG000000054737		-	0.785426722	0.001054897	0.008520804
ENSMMUG00000023117	neurotrophic receptor tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:75541]	-	0.784308155	0.005409942	0.031261709
ENSMMUG00000018375	notch receptor 2 [Source:NCBI gene;Acc:713798]	-	0.776619437	0.003446291	0.021836343
ENSMMUG000000063474		-	0.776154215	0.001785722	0.013039772
ENSMMUG00000013475	calpain 1 [Source:VGNC Symbol;Acc:VGNC:70529]	-	0.773219446	0.000620801	0.005435011
ENSMMUG000000051510		-	0.771965767	0.005874992	0.03317211
ENSMMUG00000017048	klotho [Source:VGNC Symbol;Acc:VGNC:74026]	-	0.765948212	0.00306971	0.019978068
ENSMMUG000000056711	ribonuclease inhibitor-like [Source:NCBI gene;Acc:114672186]	-	0.764927888	0.000213316	0.002236772
ENSMMUG00000008423	septin 4 [Source:NCBI gene;Acc:714724]	-	0.754617017	0.001033005	0.00835226
ENSMMUG00000022251	transglutaminase 7 [Source:VGNC Symbol;Acc:VGNC:79880]	-	0.749925923	0.004661676	0.027921345
ENSMMUG00000004708	SPT6 homolog, histone chaperone and transcription elongation factor [Source:VGNC Symbol;Acc:VGNC:78057]	-	0.734637483	0.00618192	0.034404098
ENSMMUG000000064634		-	0.729551909	0.00463253	0.027774712

ENSMMUG00000012912	itchy E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:73589]	-	0.726759761	0.007034121	0.038007238
ENSMMUG00000008575	transient receptor potential cation channel subfamily M member 7 [Source:VGNC Symbol;Acc:VGNC:79106]	-	0.726619814	0.000414796	0.003890867
ENSMMUG00000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]	-	0.721715688	0.001947895	0.013979756
ENSMMUG00000002257	RNA polymerase III subunit E [Source:VGNC Symbol;Acc:VGNC:76142]	-	0.718333949	0.003366928	0.021534584
ENSMMUG00000016005	DnaJ heat shock protein family (Hsp40) member C13 [Source:VGNC Symbol;Acc:VGNC:84191]	-	0.716575291	0.00015057	0.001672174
ENSMMUG00000049749		-	0.716573862	0.008616543	0.044656838
ENSMMUG00000012020	nuclear receptor coactivator 3 [Source:VGNC Symbol;Acc:VGNC:75147]	-	0.716468833	0.003378261	0.021590109
ENSMMUG00000007507	chloride voltage-gated channel 2 [Source:VGNC Symbol;Acc:VGNC:71235]	-	0.713737486	0.000614104	0.005387969
ENSMMUG00000049311	zinc finger protein 558 [Source:NCBI gene;Acc:712590]	-	0.710595969	0.006987551	0.037877926
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	-	0.707725457	0.001422586	0.010877423
ENSMMUG00000016522	neurolysin [Source:VGNC Symbol;Acc:VGNC:75183]	-	0.692704562	0.004175231	0.025637055
ENSMMUG00000020467	ATPase family AAA domain containing 2 [Source:VGNC Symbol;Acc:VGNC:70154]	-	0.687183945	0.002190324	0.015427002
ENSMMUG00000006546	ATPase H+ transporting V0 subunit a2 [Source:VGNC Symbol;Acc:VGNC:70096]	-	0.680183575	0.009036435	0.046302487
ENSMMUG00000018186	sosondawah ankyrin repeat domain family member B [Source:VGNC Symbol;Acc:VGNC:78033]	-	0.679852787	0.003439842	0.021812457
ENSMMUG00000009106	solute carrier family 2 member 11 [Source:NCBI gene;Acc:699450]	-	-0.67969154	0.001865172	0.013510882
ENSMMUG00000005740	ubiquitin specific peptidase 24 [Source:VGNC Symbol;Acc:VGNC:78743]	-	0.673161392	0.002468369	0.016832045
ENSMMUG00000020150	xin actin binding repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:78952]	-	0.669867243	0.003737774	0.023464113
ENSMMUG000000056693		-	0.661714027	0.006866513	0.037422507
ENSMMUG00000031123	secretoglobin family 1A member 1 [Source:VGNC Symbol;Acc:VGNC:77004]	-	0.655111356	0.000263155	0.002664936
ENSMMUG00000015862	centrosomal protein 290 [Source:VGNC Symbol;Acc:VGNC:71126]	-	0.653601604	0.008938129	0.045943338
ENSMMUG00000023361	GDNF family receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:72918]	-	0.646896585	0.005596841	0.031844497
ENSMMUG00000009188	cyclase associated actin cytoskeleton regulatory protein 1 [Source:NCBI gene;Acc:693719]	-	0.635808968	0.008068614	0.042465839
ENSMMUG00000018846	ZFP64 zinc finger protein [Source:VGNC Symbol;Acc:VGNC:78994]	-	0.630769283	0.005422891	0.031276366
ENSMMUG00000010707	signal transducer and activator of transcription 3 [Source:VGNC Symbol;Acc:VGNC:77906]	-	0.630677801	0.003430589	0.021804725
ENSMMUG00000012786	complement C1s [Source:VGNC Symbol;Acc:VGNC:70297]	-	0.624484942	0.00592003	0.033287901
ENSMMUG00000005980	glutathione hydrolase 5 proenzyme [Source:NCBI gene;Acc:720345]	-	0.624451034	0.000788884	0.006656058
ENSMMUG00000008164	prominin 1 [Source:VGNC Symbol;Acc:VGNC:76425]	-	0.621991832	0.004598838	0.027654165
ENSMMUG00000003238	pregnancy zone protein [Source:NCBI gene;Acc:100430319]	-	0.621564788	0.008181617	0.043004988
ENSMMUG00000021827	tripartite motif containing 66 [Source:VGNC Symbol;Acc:VGNC:79766]	-	0.619564979	0.002870133	0.019060868

ENSMMUG0000005929	ubiquitin specific peptidase 45 [Source:VGNC Symbol;Acc:VGNC:79233]	0.608042583	0.008396055	0.04382095
ENSMMUG00000019564	mitogen-activated protein kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81453]	0.597751877	0.002495109	0.01698292
ENSMMUG00000001407	solute carrier family 5 member 11 [Source:VGNC Symbol;Acc:VGNC:77759]	0.594078749	0.009581559	0.048593003
ENSMMUG00000011713	leupaxin [Source:VGNC Symbol;Acc:VGNC:74286]	0.592034018	0.00394583	0.024487004
ENSMMUG00000022922	nuclear receptor subfamily 4 group A member 1 [Source:VGNC Symbol;Acc:VGNC:75517]	0.559096652	0.002496752	0.01698292
ENSMMUG00000059535		0.535562661	0.009101875	0.046579175
ENSMMUG00000059612		0.460010776	0.008623212	0.044662972
ENSMMUG00000021012	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	0.476879699	0.009033937	0.046302487
ENSMMUG00000031160	menin 1 [Source:NCBI gene;Acc:106995582]	0.488262148	0.006551687	0.036091905
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	0.501235256	0.004974982	0.02926756
ENSMMUG00000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]	0.556394954	0.003845281	0.023991016
ENSMMUG00000010996	Janus kinase 3 [Source:VGNC Symbol;Acc:VGNC:73812]	0.561300432	0.001362806	0.01046789
ENSMMUG00000030597	mitogen-activated protein kinase kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81465]	0.573419247	0.005374587	0.031142227
ENSMMUG00000022973	gametogenetin [Source:VGNC Symbol;Acc:VGNC:72740]	0.577574032	0.005139972	0.030094991
ENSMMUG00000013128	coiled-coil domain containing 30 [Source:VGNC Symbol;Acc:VGNC:70866]	0.59127651	0.003401433	0.021687133
ENSMMUG00000001532	glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]	0.595133007	0.00900267	0.046216733
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	0.598907424	0.00267417	0.017890793
ENSMMUG00000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	0.603924299	0.005141505	0.030094991
ENSMMUG00000009430	transient receptor potential cation channel subfamily M member 1 [Source:VGNC Symbol;Acc:VGNC:79964]	0.605310942	0.002157515	0.015235462
ENSMMUG00000019703	RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]	0.614861668	0.001680522	0.012416341
ENSMMUG00000060764		0.619909378	0.007730191	0.040938669
ENSMMUG00000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]	0.619984697	0.000294146	0.002931378
ENSMMUG00000020588	protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]	0.624423605	0.005539327	0.031694451
ENSMMUG00000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]	0.624588287	0.002071051	0.014691109
ENSMMUG00000055601		0.625486994	0.006540535	0.036054865
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	0.638963955	0.002374388	0.016383279
ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	0.643805103	0.007000254	0.037921537
ENSMMUG00000057560		0.6447889	0.006731637	0.036809258
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	0.647161221	0.006986984	0.037877926
ENSMMUG00000015267	C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]	0.647807888	0.003578208	0.022561497
ENSMMUG00000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]	0.64794139	0.005886056	0.03321155
ENSMMUG00000060459		0.650585034	0.00305885	0.019924124
ENSMMUG00000005270	ryanodine receptor 3 [Source:NCBI gene;Acc:694996]	0.658426486	0.000547053	0.004894621
ENSMMUG00000008336	acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]	0.658712313	0.000818901	0.0068808
ENSMMUG00000037756	MAF bZIP transcription factor [Source:NCBI gene;Acc:106995090]	0.660616302	0.003243245	0.020841753
ENSMMUG00000002540	dehydrogenase/reductase 7 [Source:VGNC Symbol;Acc:VGNC:71690]	0.666410746	0.001605339	0.01199144
ENSMMUG00000015840	RAN binding protein 17 [Source:VGNC Symbol;Acc:VGNC:84485]	0.668149808	0.009456206	0.048060193
ENSMMUG00000017382	biliverdin reductase A [Source:VGNC Symbol;Acc:VGNC:70256]	0.67184012	0.005522051	0.031684667
ENSMMUG00000053437		0.67514322	0.003093535	0.020056691
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	0.678421311	0.001672056	0.012376256
ENSMMUG00000018503	NACHT and WD repeat domain containing 1 [Source:NCBI gene;Acc:719640]	0.681905998	0.002040325	0.014521266
ENSMMUG00000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]	0.685982138	0.008480401	0.04414797
ENSMMUG00000010367	myosin heavy chain 11 [Source:VGNC Symbol;Acc:VGNC:75097]	0.691713337	0.008892594	0.045796018
ENSMMUG00000053710		0.6987867	0.006190561	0.034428654
ENSMMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]	0.70144658	0.004773578	0.028411166
ENSMMUG00000005323	phosphoribosyl pyrophosphate synthetase associated protein 2 [Source:VGNC Symbol;Acc:VGNC:76430]	0.703512129	0.00398999	0.024685789

ENSMMUG00000032341	coiled-coil domain containing 160 [Source:VGNC Symbol;Acc:VGNC:70926]	0.704255799	0.00084302	0.007047095
ENSMMUG00000056008		0.705200461	0.00057279	0.005091326
ENSMMUG00000013697	PDX1 C-terminal inhibiting factor 1 [Source:VGNC Symbol;Acc:VGNC:75621]	0.711194815	0.005530356	0.031686497
ENSMMUG00000028928	ankyrin repeat domain 24 [Source:NCBI gene;Acc:721829]	0.71282148	0.004074217	0.025094601
ENSMMUG00000001667	transmembrane protein 210 [Source:VGNC Symbol;Acc:VGNC:79945]	0.714030135	0.001422802	0.010877423
ENSMMUG00000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]	0.714804769	0.003076778	0.019992917
ENSMMUG00000002033	serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]	0.715515695	0.00901335	0.046242407
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	0.718186413	0.003110048	0.020088525
ENSMMUG00000021044	afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]	0.722967158	0.002895114	0.019190096
ENSMMUG00000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]	0.730704847	0.006269883	0.034798491
ENSMMUG00000001538	GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]	0.734039781	0.000767633	0.00651049
ENSMMUG00000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	0.741833331	0.006241839	0.034666478
ENSMMUG00000031106	ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]	0.74232772	0.002958556	0.019447684
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	0.743192638	0.003976302	0.024638548
ENSMMUG00000052626	progesterone and adiponectin receptor family member 8 [Source:NCBI gene;Acc:708418]	0.745431334	0.003887486	0.02419871
ENSMMUG00000020488	receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]	0.746197201	0.002342826	0.016206703
ENSMMUG00000006139	3-hydroxy-3-methylglutaryl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:73484]	0.74923327	0.003284395	0.021039767
ENSMMUG00000051230		0.750815228	0.009423372	0.047953185
ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	0.752306334	0.00200434	0.014302658
ENSMMUG00000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	0.75248459	8.45E-05	0.001008568
ENSMMUG00000000901	alpha hemoglobin stabilizing protein [Source:VGNC Symbol;Acc:VGNC:69631]	0.752614464	0.004402335	0.026804733
ENSMMUG00000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	0.754876567	0.003761883	0.023560962
ENSMMUG00000000198	collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]	0.756190735	0.004929785	0.02908573
ENSMMUG00000048207	syntaxin 4 [Source:NCBI gene;Acc:704880]	0.757274288	0.008457204	0.044055378
ENSMMUG00000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	0.765468012	0.000431088	0.004015929
ENSMMUG00000037473	proline rich transmembrane protein 4 [Source:VGNC Symbol;Acc:VGNC:81746]	0.768830106	0.004686146	0.028013659
ENSMMUG00000008041	ankyrin repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:69693]	0.76972098	0.001344544	0.010386411
ENSMMUG00000042077	DNA damage regulated autophagy modulator 1 [Source:NCBI gene;Acc:697427]	0.770112679	0.009851934	0.049606954
ENSMMUG00000015108	SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]	0.77872639	0.004303521	0.026246642
ENSMMUG00000050119		0.779961251	0.001352623	0.010419168
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	0.782448647	0.001069457	0.008617629
ENSMMUG00000005548	N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]	0.784721376	0.005171605	0.030206034
ENSMMUG00000054184	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.790954229	0.000466041	0.004297288
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	0.795106959	0.00395145	0.024503201
ENSMMUG00000052424		0.795264641	0.005534046	0.031686497
ENSMMUG00000021446	diacylglycerol kinase zeta [Source:VGNC Symbol;Acc:VGNC:71789]	0.806779947	0.002273028	0.015872211
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	0.808815815	0.000481992	0.004404462
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]	0.81070323	0.002999485	0.019631675
ENSMMUG00000055209		0.814511469	0.005804888	0.032844613
ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]	0.81822824	0.007983042	0.042124389
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	0.825325931	0.00069575	0.006007208
ENSMMUG00000056024		0.828033381	0.003804369	0.023766765
ENSMMUG00000019015	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73217]	0.829132219	0.000326667	0.003177306
ENSMMUG00000017949	ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]	0.829239839	0.000345031	0.003328482
ENSMMUG00000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	0.829972461	0.000475994	0.004359443
ENSMMUG00000015797	disco interacting protein 2 homolog A [Source:VGNC Symbol;Acc:VGNC:71641]	0.832804692	6.17E-05	0.000768755
ENSMMUG00000055239		0.833961795	0.00833846	0.043548262
ENSMMUG00000048076	TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650]	0.837440921	0.006866768	0.037422507
ENSMMUG00000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	0.839363703	1.50E-05	0.000228509
ENSMMUG00000037887	RBMX like 1 [Source:NCBI gene;Acc:100424767]	0.840167815	0.001321354	0.010275895
ENSMMUG00000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	0.84254105	0.000207848	0.002192093

ENSMMUG0000002381	lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]	0.846703796	0.000509593	0.004602888
ENSMMUG00000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]	0.848110569	0.005439899	0.031300359
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	0.854494647	7.35E-06	0.000126317
ENSMMUG00000015476	unc-13 homolog A [Source:NCBI gene;Acc:720000]	0.856594073	0.000763845	0.006485116
ENSMMUG00000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	0.857155027	6.65E-05	0.000818727
ENSMMUG00000006293	SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]	0.857435002	0.006297958	0.0349305
ENSMMUG00000015572	GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]	0.864121437	0.00085261	0.007105373
ENSMMUG00000022514	coiled-coil domain containing 186 [Source:VGNC Symbol;Acc:VGNC:70847]	0.86484766	0.000377159	0.003591609
ENSMMUG00000015877	1,4-alpha-glucan branching enzyme 1 [Source:VGNC Symbol;Acc:VGNC:72894]	0.865552359	0.007083079	0.038116607
ENSMMUG00000015306	calponin 2 [Source:NCBI gene;Acc:721164]	0.868015851	0.000223445	0.002329435
ENSMMUG00000004843	sodium voltage-gated channel beta subunit 1 [Source:VGNC Symbol;Acc:VGNC:76983]	0.868307861	0.000856909	0.007133897
ENSMMUG00000017619	lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]	0.869501113	0.000179857	0.0019396
ENSMMUG000000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	0.872132056	0.000442808	0.004103482
ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	0.874260363	0.000592083	0.005239931
ENSMMUG000000060555		0.877295273	0.008147337	0.042852465
ENSMMUG00000003355	lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]	0.882333599	0.002348677	0.01621962
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]	0.882569113	1.46E-05	0.000223177
ENSMMUG00000000382	sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]	0.883937837	0.009454935	0.048060193
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	0.886315496	1.77E-05	0.00026056
ENSMMUG000000059292		0.887824754	0.000574336	0.005099499
ENSMMUG000000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	0.891384149	0.006037003	0.033805557
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	0.891849855	0.000147113	0.001645323
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	0.892032334	0.002460595	0.016798421
ENSMMUG000000059788		0.893115596	1.63E-05	0.000245192
ENSMMUG00000003067	endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]	0.894225253	0.000104125	0.001209391
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	0.895111266	0.000270358	0.002727697
ENSMMUG000000061749	PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]	0.897027022	7.21E-06	0.0001244
ENSMMUG000000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	0.899753864	0.002916862	0.019261228
ENSMMUG00000006620	casein kinase 1 gamma 2 [Source:NCBI gene;Acc:709484]	0.900666246	0.009310879	0.047440035
ENSMMUG000000051072		0.900741343	0.000110352	0.001278071
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	0.902037574	0.001478245	0.01121703
ENSMMUG00000019926	cytoplasmic polyadenylation element binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71450]	0.903406563	0.009726538	0.049188493
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	0.904204817	8.64E-05	0.00102505
ENSMMUG00000006470	complement C1r subcomponent [Source:NCBI gene;Acc:722133]	0.904702409	1.21E-05	0.000191439
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	0.90774239	0.000523487	0.00470965
ENSMMUG00000010949	SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]	0.911369787	0.004453955	0.027042581
ENSMMUG00000005514	RNA polymerase III subunit A [Source:VGNC Symbol;Acc:VGNC:76138]	0.914827269	0.004288403	0.026189842
ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	0.916777526	0.007346414	0.039274134
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]	0.918232305	4.44E-05	0.00057426
ENSMMUG00000008399	synaptic vesicle glycoprotein 2B [Source:VGNC Symbol;Acc:VGNC:78140]	0.91970762	0.002653182	0.017838029
ENSMMUG00000003233	SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]	0.919738711	0.005555698	0.031699013
ENSMMUG000000061366		0.919793245	0.007489999	0.039884612
ENSMMUG00000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	0.920226809	0.003034758	0.019830658
ENSMMUG000000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	0.920240463	0.00557911	0.031770338
ENSMMUG000000045769	tubulin tyrosine ligase like 10 [Source:NCBI gene;Acc:702662]	0.920355752	0.0001887	0.002016272
ENSMMUG00000007540	Rho related BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76772]	0.920842927	0.001908992	0.013747389
ENSMMUG000000053257	Y RNA [Source:RFAM;Acc:RF00019]	0.923270553	0.002271557	0.015872211
ENSMMUG00000022741	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]	0.927449813	0.002391658	0.016452438
ENSMMUG000000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.928636412	0.009288511	0.047385375
ENSMMUG000000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]	0.930528114	0.006088052	0.034067985
ENSMMUG000000061785		0.931048251	1.18E-05	0.000186762

ENSMMUG00000015303	ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]	0.932600716	0.000251469	0.002581516
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	0.934220884	3.50E-05	0.000460747
ENSMMUG00000009825	zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]	0.934327987	0.006783505	0.037043123
ENSMMUG00000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	0.938255977	8.77E-07	1.95E-05
ENSMMUG00000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]	0.938671576	0.000602824	0.005317651
ENSMMUG00000048463	apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]	0.940315907	0.000513885	0.004633501
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	0.941894178	7.75E-06	0.000131557
ENSMMUG00000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	0.94984254	2.68E-05	0.000371146
ENSMMUG00000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]	0.953988642	0.001687039	0.012453196
ENSMMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]	0.954310696	0.002529451	0.017176636
ENSMMUG00000018274	FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]	0.956137934	4.36E-06	8.03E-05
ENSMMUG00000005480	carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	0.956966021	4.62E-07	1.11E-05
ENSMMUG00000057682		0.960209011	0.000488179	0.004446036
ENSMMUG00000004074	bone morphogenetic protein 7 [Source:VGNC Symbol;Acc:VGNC:70266]	0.962548014	0.005393922	0.031191271
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	0.964183702	0.000181006	0.00194683
ENSMMUG00000053072		0.964661497	0.009231763	0.047154963
ENSMMUG00000020916	coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]	0.968846484	0.000325063	0.003165862
ENSMMUG00000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	0.969407185	1.44E-07	3.85E-06
ENSMMUG00000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	0.971232399	3.58E-06	6.77E-05
ENSMMUG00000003534	ring finger protein 157 [Source:VGNC Symbol;Acc:VGNC:76860]	0.974932393	0.000892755	0.007372018
ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	0.975100843	0.00162056	0.012082968
ENSMMUG00000010886	strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]	0.979315768	0.001448968	0.011046344
ENSMMUG00000057906		0.981760053	1.92E-05	0.000280271
ENSMMUG00000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]	0.982158212	1.73E-07	4.59E-06
ENSMMUG00000011774	integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	0.983359909	1.53E-05	0.000232155
ENSMMUG00000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]	0.985019052	0.001185417	0.009379656
ENSMMUG00000001616	peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]	0.987593843	0.003207291	0.020659626
ENSMMUG00000020320	protein transport protein Sec16B [Source:NCBI gene;Acc:709635]	0.989301141	0.001700846	0.012532384
ENSMMUG00000052238		0.990459006	0.007536436	0.040105661
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	0.990713251	6.42E-05	0.000795624
ENSMMUG00000022933	DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]	0.99875669	1.86E-06	3.86E-05
ENSMMUG00000051677		1.00668185	0.000150746	0.001672174
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	1.008642963	8.81E-06	0.000145521
ENSMMUG00000063817	SRY-box transcription factor 9 [Source:NCBI gene;Acc:574208]	1.008889423	2.08E-05	0.000298337
ENSMMUG00000062316	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.012261915	0.002924773	0.019297817
ENSMMUG00000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	1.018000422	8.90E-05	0.001051866
ENSMMUG00000063495		1.018145805	0.001540034	0.011599404
ENSMMUG00000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	1.01852482	0.000214631	0.002246173
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	1.019350197	1.33E-06	2.84E-05
ENSMMUG00000014313	zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]	1.021074739	0.001948787	0.013979756
ENSMMUG00000022931	NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]	1.023482701	0.002936582	0.019328741
ENSMMUG00000005483	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	1.025642497	0.002906255	0.019206762
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]	1.027958224	0.000354505	0.003403751
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	1.028092458	0.000119852	0.001372483
ENSMMUG00000061514	mucin-3A-like [Source:NCBI gene;Acc:100428559]	1.031024823	0.00612977	0.034207395
ENSMMUG00000004108	corticotropin releasing hormone receptor 1 [Source:VGNC Symbol;Acc:VGNC:81184]	1.033037124	0.000485272	0.004429468
ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]	1.033094456	1.08E-05	0.000172297
ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	1.035167534	0.00418512	0.02565907
ENSMMUG00000004903	ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:VGNC Symbol;Acc:VGNC:72223]	1.036220694	0.006362301	0.03516225
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]	1.036449768	8.44E-07	1.88E-05
ENSMMUG00000009318	BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]	1.041044061	0.000389183	0.003693156

ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	1.041745043	1.31E-07	3.55E-06
ENSMMUG000000059671		1.042089427	0.000546609	0.004894621
ENSMMUG00000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	1.043040538	1.65E-05	0.000248402
ENSMMUG000000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	1.048612389	2.51E-05	0.000350186
ENSMMUG000000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	1.050041931	0.004691552	0.028025397
ENSMMUG000000022481	cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]	1.052251165	0.001983363	0.014166321
ENSMMUG000000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	1.056271341	0.000406545	0.003829958
ENSMMUG000000017150	mitochondrial antiviral signaling protein [Source:VGNC Symbol;Acc:VGNC:74609]	1.058382799	0.007078256	0.038116607
ENSMMUG000000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]	1.05914965	5.58E-05	0.000702517
ENSMMUG000000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	1.061928054	2.66E-05	0.000369505
ENSMMUG000000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	1.062014772	0.000103353	0.001202143
ENSMMUG000000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	1.065375628	1.22E-06	2.64E-05
ENSMMUG000000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	1.075842263	2.96E-05	0.000398731
ENSMMUG000000015663	adaptor related protein complex 3 subunit delta 1 [Source:VGNC Symbol;Acc:VGNC:69969]	1.080077754	1.60E-06	3.37E-05
ENSMMUG000000017946	rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]	1.080409611	0.005736315	0.032524425
ENSMMUG000000017660		1.082025611	0.005659556	0.03213783
ENSMMUG000000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	1.082963523	3.02E-05	0.000405073
ENSMMUG000000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	1.085135852	3.32E-07	8.24E-06
ENSMMUG000000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	1.085213609	0.001334169	0.010321967
ENSMMUG000000060973		1.08814287	0.003387166	0.021630043
ENSMMUG000000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	1.089420406	0.000169421	0.001849099
ENSMMUG000000052607		1.09000075	6.99E-06	0.000121037
ENSMMUG000000061995		1.093147256	0.000475955	0.004359443
ENSMMUG000000013966	legumain [Source:VGNC Symbol;Acc:VGNC:74274]	1.093267769	0.00704579	0.03801645
ENSMMUG000000015477	lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]	1.093453713	0.000392136	0.003716849
ENSMMUG000000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	1.094824285	0.00201098	0.014337477
ENSMMUG000000058187		1.097657657	2.24E-06	4.55E-05
ENSMMUG000000017945	septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]	1.099235146	0.008230515	0.043206223
ENSMMUG000000002822	unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]	1.100637102	0.000127155	0.001443931
ENSMMUG000000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	1.102441634	0.001304718	0.010182211
ENSMMUG000000000874	carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]	1.102909237	0.005219907	0.030466297
ENSMMUG000000054377		1.104529293	7.18E-09	2.75E-07
ENSMMUG000000009199	glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]	1.107903864	0.002758978	0.018412783
ENSMMUG000000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	1.108434864	0.000901431	0.007436123
ENSMMUG000000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	1.11596873	0.006019776	0.03373229
ENSMMUG000000005776	atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]	1.116852905	0.000496741	0.004503856
ENSMMUG000000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	1.117502596	4.63E-05	0.000596023
ENSMMUG000000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	1.118320785	0.0001157	0.001330549
ENSMMUG000000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	1.119994259	3.02E-05	0.00040466
ENSMMUG000000018344	myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]	1.122268968	0.000374384	0.003573542
ENSMMUG000000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	1.127456174	3.18E-10	1.59E-08
ENSMMUG000000014010	RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]	1.127968976	4.82E-09	1.91E-07
ENSMMUG000000042510	coagulation factor V [Source:NCBI gene;Acc:704695]	1.130233202	7.61E-08	2.25E-06
ENSMMUG000000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.130248777	0.002665559	0.017877253
ENSMMUG000000055352		1.130742135	2.37E-05	0.000333858
ENSMMUG000000006936	gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]	1.133048626	0.000315769	0.003089809
ENSMMUG000000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]	1.133747941	0.006889483	0.037496102
ENSMMUG000000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	1.134888508	8.53E-08	2.45E-06
ENSMMUG000000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	1.136106489	7.76E-06	0.000131557
ENSMMUG000000055048		1.137563966	0.001171743	0.009289517
ENSMMUG000000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]	1.138083707	0.004496079	0.027194584

ENSMMUG0000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	1.138913263	2.08E-05	0.000298337
ENSMMUG00000047219		1.139377237	0.009481672	0.048159559
ENSMMUG00000054175		1.140759905	3.15E-06	6.05E-05
ENSMMUG00000023717	MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]	1.146852248	0.001256363	0.009868382
ENSMMUG00000056613		1.146865127	9.43E-06	0.000153188
ENSMMUG00000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	1.146871643	0.002709653	0.018113296
ENSMMUG00000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	1.147379143	1.43E-06	3.04E-05
ENSMMUG00000063322		1.14757191	0.000406374	0.003829958
ENSMMUG00000014277	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	1.147808169	1.38E-05	0.000213814
ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]	1.148109676	0.000822598	0.006897626
ENSMMUG00000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	1.151663437	7.41E-05	0.000899111
ENSMMUG00000003105	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]	1.152215528	1.77E-05	0.00026056
ENSMMUG00000008770	UDP-glucose pyrophosphorylase 2 [Source:VGNC Symbol;Acc:VGNC:78712]	1.153271899	0.001716803	0.012638525
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]	1.153728088	4.42E-07	1.07E-05
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.157110862	1.81E-05	0.000266685
ENSMMUG00000058237		1.157283676	0.002674089	0.017890793
ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	1.159053092	8.94E-07	1.97E-05
ENSMMUG00000059491		1.159137895	0.001670057	0.012376256
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]	1.159278183	4.51E-05	0.000581647
ENSMMUG00000018879	exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]	1.159703069	7.38E-05	0.000898527
ENSMMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	1.161903965	2.11E-06	4.31E-05
ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]	1.164345619	0.006899652	0.037522711
ENSMMUG00000060533		1.165758699	1.18E-08	4.30E-07
ENSMMUG00000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	1.166428345	2.92E-06	5.66E-05
ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]	1.171610733	7.41E-05	0.000899111
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	1.175384884	0.007738223	0.040938669
ENSMMUG00000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	1.177044273	2.59E-09	1.06E-07
ENSMMUG00000001635	zinc finger protein 703 [Source:VGNC Symbol;Acc:VGNC:79552]	1.17710341	0.009739707	0.049224515
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	1.177665269	5.18E-07	1.23E-05
ENSMMUG00000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	1.178465211	6.93E-07	1.59E-05
ENSMMUG00000004435	two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]	1.184175522	9.04E-06	0.000148523
ENSMMUG00000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	1.18467119	0.000125118	0.00142477
ENSMMUG00000055290	netrin 1 [Source:NCBI gene;Acc:717645]	1.184946522	0.002247364	0.015760585
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	1.186359658	0.000145178	0.001625912
ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	1.186977187	7.86E-08	2.30E-06
ENSMMUG00000014674	golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]	1.187357519	0.002495638	0.01698292
ENSMMUG00000019925	DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]	1.188790191	8.95E-05	0.001054533
ENSMMUG00000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]	1.194330171	0.003580134	0.022561497
ENSMMUG00000051408	myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]	1.19462562	0.000336137	0.003254254
ENSMMUG00000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	1.197683365	0.000343856	0.003321089
ENSMMUG00000055324	homeobox B7 [Source:NCBI gene;Acc:697089]	1.199546653	0.001360359	0.010458964
ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	1.201158147	9.69E-12	6.42E-10
ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	1.205444827	0.000182251	0.001957638
ENSMMUG00000008566	zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]	1.205866251	0.000171819	0.001865268
ENSMMUG00000065025		1.20593643	0.000295427	0.002936958
ENSMMUG00000042951	signal recognition particle 19 [Source:NCBI gene;Acc:693829]	1.206512321	0.00232355	0.016141933
ENSMMUG00000059777		1.20825363	0.000242736	0.002508065
ENSMMUG00000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	1.209899458	7.91E-06	0.000133967
ENSMMUG00000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	1.211697711	7.06E-06	0.000122081
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	1.213763864	2.58E-06	5.13E-05
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	1.215619187	1.04E-07	2.90E-06

ENSMMUG0000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	1.2159849	1.32E-05	0.000205546
ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	1.216002862	0.000490494	0.004462124
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]	1.218777771	0.000642963	0.005610935
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	1.219055239	1.59E-05	0.000240692
ENSMMUG00000032809	mml-mir-642 [Source:miRBase;Acc:MI0007885]	1.223533713	0.006167265	0.034349766
ENSMMUG00000062397		1.224405602	0.007728781	0.040938669
ENSMMUG00000005486	protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]	1.225464944	0.002173117	0.01533234
ENSMMUG00000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]	1.229193248	0.004473179	0.027098676
ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	1.233369628	2.39E-05	0.000336166
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	1.233791063	0.003855071	0.02403368
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	1.235256665	0.000202247	0.002141343
ENSMMUG00000056009		1.235457739	0.001017046	0.008239592
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	1.240030448	2.16E-05	0.000307962
ENSMMUG00000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	1.247225173	8.88E-09	3.35E-07
ENSMMUG00000020956	parvin alpha [Source:VGNC Symbol;Acc:VGNC:75605]	1.247226446	0.003934976	0.024438272
ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	1.249298223	8.18E-08	2.39E-06
ENSMMUG00000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]	1.250422514	2.23E-07	5.69E-06
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	1.252744983	2.42E-07	6.17E-06
ENSMMUG00000000582	NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]	1.255489848	0.003985597	0.024677362
ENSMMUG00000053937		1.256722078	7.77E-07	1.75E-05
ENSMMUG00000051420	homeobox B5 [Source:NCBI gene;Acc:696732]	1.25751914	0.005384333	0.031157954
ENSMMUG00000004816	membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]	1.258029527	0.001346662	0.010392908
ENSMMUG00000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]	1.259109722	7.90E-09	3.00E-07
ENSMMUG000000045187	CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]	1.262130511	9.34E-08	2.62E-06
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	1.26462066	5.24E-06	9.48E-05
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	1.264753546	0.000313735	0.003083641
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.267538145	2.10E-05	0.000300299
ENSMMUG00000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.269130792	0.000227608	0.002366861
ENSMMUG00000054784		1.26921974	0.003600026	0.022669308
ENSMMUG00000007970	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]	1.269837059	0.005431685	0.031276366
ENSMMUG00000065269	Rho family GTPase 2 [Source:NCBI gene;Acc:712559]	1.270255839	0.002987638	0.019601408
ENSMMUG00000023636	importin 7 [Source:NCBI gene;Acc:704213]	1.271640797	0.008724675	0.045045213
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	1.273397284	0.000123478	0.001410043
ENSMMUG00000051323	caspase-14-like [Source:NCBI gene;Acc:702430]	1.273517278	0.000917297	0.007536459
ENSMMUG00000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	1.27438677	0.004359523	0.026568292
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	1.276336285	6.17E-12	4.25E-10
ENSMMUG00000060063		1.279421889	0.000991803	0.008057457
ENSMMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]	1.28236375	1.75E-05	0.000259494
ENSMMUG00000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	1.284237138	0.000591019	0.005236212
ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]	1.284514821	0.00096598	0.007872886
ENSMMUG00000051807		1.28536511	0.000675366	0.005859021
ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	1.286878214	0.001263212	0.00989901
ENSMMUG00000011209	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	1.28871615	0.002390371	0.016452438
ENSMMUG00000055379		1.289136896	1.12E-06	2.45E-05
ENSMMUG00000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	1.290264275	2.98E-05	0.000401134
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]	1.291965893	0.005548918	0.031699013
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	1.292478197	2.73E-07	6.88E-06
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	1.298398843	3.14E-07	7.81E-06
ENSMMUG00000063639		1.299749211	0.001955901	0.01400498
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	1.301062102	1.38E-05	0.000213524
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	1.302192833	4.64E-08	1.48E-06

ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]	1.305101211	1.63E-09	7.08E-08
ENSMMUG00000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	1.30519873	4.57E-06	8.40E-05
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	1.308947455	0.000116362	0.001336276
ENSMMUG00000056950		1.309933284	3.22E-05	0.000429748
ENSMMUG00000055096		1.310281588	0.001334044	0.010321967
ENSMMUG00000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	1.311117692	0.001795374	0.013086781
ENSMMUG00000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]	1.312520273	1.12E-09	5.06E-08
ENSMMUG00000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	1.314002777	4.12E-06	7.64E-05
ENSMMUG00000058621		1.315780617	0.002071407	0.014691109
ENSMMUG00000013044	selectin P [Source:VGNC Symbol;Acc:VGNC:77157]	1.31779469	0.000244981	0.002521665
ENSMMUG00000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]	1.31860429	3.07E-05	0.000410969
ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	1.319566013	2.52E-12	1.88E-10
ENSMMUG00000064920		1.319829116	0.00048087	0.004399147
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	1.320390732	2.79E-06	5.44E-05
ENSMMUG00000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]	1.321944995	0.001635945	0.012186517
ENSMMUG00000052851	solute carrier family 7 member 5 [Source:NCBI gene;Acc:695886]	1.322048963	0.0004323	0.004022617
ENSMMUG00000049802	olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]	1.325171404	0.00785629	0.041509355
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]	1.326790551	9.40E-10	4.29E-08
ENSMMUG00000014508	potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]	1.326961786	0.000313237	0.003083641
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	1.329041773	0.000184498	0.001973956
ENSMMUG00000060901		1.329263556	3.10E-08	1.03E-06
ENSMMUG00000053199		1.332128719	6.36E-05	0.000789282
ENSMMUG00000010869	nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]	1.334900017	0.000165159	0.001807424
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]	1.337080874	0.001666619	0.012369747
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]	1.341679179	1.80E-07	4.71E-06
ENSMMUG00000060572		1.347598177	0.003251773	0.020879374
ENSMMUG00000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.348805065	0.000272591	0.002740365
ENSMMUG00000019764	dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]	1.348894068	0.009285956	0.047385375
ENSMMUG00000056093	shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]	1.350208924	0.002571251	0.01738798
ENSMMUG00000057703		1.350384971	0.001957463	0.01400498
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	1.358973125	6.61E-08	2.01E-06
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	1.359844259	4.75E-08	1.51E-06
ENSMMUG00000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	1.361837188	5.12E-07	1.21E-05
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	1.362647891	7.63E-07	1.73E-05
ENSMMUG00000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	1.363040662	6.09E-05	0.000760345
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	1.364438256	0.000233441	0.002418163
ENSMMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]	1.3660937	1.76E-05	0.00026056
ENSMMUG00000017627	B-TFIIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	1.366202539	6.80E-11	3.81E-09
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	1.369668288	2.79E-05	0.000384081
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]	1.372447642	0.001367008	0.010490271
ENSMMUG00000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]	1.373890678	1.43E-05	0.000219098
ENSMMUG00000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	1.374507347	2.13E-07	5.51E-06
ENSMMUG00000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]	1.374610489	2.26E-08	7.75E-07
ENSMMUG00000060517		1.376105225	0.001577314	0.011836397
ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	1.377158584	7.16E-08	2.15E-06
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	1.384068117	2.06E-09	8.66E-08
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]	1.384444235	3.26E-06	6.21E-05
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	1.384677377	7.20E-08	2.16E-06
ENSMMUG00000057702		1.386460542	0.000335557	0.003252511
ENSMMUG00000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	1.396158633	1.28E-05	0.000200189
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	1.396601249	5.69E-06	0.000101318

ENSMMUG00000003739	mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]	1.39834537	0.008491212	0.044176007
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	1.401526732	1.40E-10	7.31E-09
ENSMMUG00000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	1.404445404	8.07E-09	3.06E-07
ENSMMUG00000011817	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	1.404727115	0.000260226	0.002651765
ENSMMUG000000052891		1.407801302	0.009786933	0.049371256
ENSMMUG000000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	1.409411266	1.94E-08	6.75E-07
ENSMMUG000000052073		1.410277451	2.84E-05	0.000388751
ENSMMUG00000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	1.411103365	2.19E-06	4.45E-05
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	1.413274083	1.45E-06	3.08E-05
ENSMMUG000000051329		1.415494725	0.009558695	0.04852051
ENSMMUG000000011767	carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]	1.415576058	0.001863308	0.013509401
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	1.416091162	4.87E-05	0.00062191
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	1.416893926	3.26E-08	1.08E-06
ENSMMUG00000003976	glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]	1.421713415	2.08E-05	0.000298337
ENSMMUG00000000196	niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]	1.423155736	0.005356906	0.03108762
ENSMMUG000000053378		1.426036057	0.001236859	0.009739364
ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]	1.427575514	2.87E-06	5.59E-05
ENSMMUG000000048204	ephrin B3 [Source:NCBI gene;Acc:716257]	1.42778033	2.68E-06	5.25E-05
ENSMMUG000000048066	trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]	1.429610841	6.44E-05	0.000795624
ENSMMUG000000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	1.436524131	2.62E-08	8.82E-07
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]	1.4365877	6.70E-05	0.000822449
ENSMMUG00000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	1.438345911	2.28E-11	1.37E-09
ENSMMUG000000060761		1.438639048	1.19E-13	1.10E-11
ENSMMUG00000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	1.441061223	5.13E-08	1.62E-06
ENSMMUG00000012065	tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]	1.442055446	0.000726367	0.006212272
ENSMMUG00000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.452448818	6.84E-11	3.81E-09
ENSMMUG00000008162	fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]	1.462329745	0.005290944	0.03081464
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	1.462767412	1.59E-05	0.00024083
ENSMMUG000000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.467848702	6.22E-05	0.000773395
ENSMMUG00000005086	homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]	1.469673539	1.07E-05	0.000172213
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.472612148	3.49E-08	1.15E-06
ENSMMUG000000054942		1.472694652	0.008557857	0.044437546
ENSMMUG00000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]	1.472743594	6.45E-07	1.50E-05
ENSMMUG000000050585		1.473242228	0.000126597	0.001439598
ENSMMUG00000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	1.473596141	9.18E-06	0.000150128
ENSMMUG00000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	1.473962873	0.000243664	0.002514468
ENSMMUG000000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	1.476895914	0.002267803	0.015872211
ENSMMUG00000022407	serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]	1.477319366	0.000723917	0.006210887
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	1.477708069	2.21E-05	0.000313047
ENSMMUG00000001943	GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]	1.478788495	0.002763354	0.018426884
ENSMMUG000000064391		1.484374956	7.70E-06	0.000131405
ENSMMUG000000050405		1.485421469	0.004499321	0.027194584
ENSMMUG000000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	1.487073829	0.00062227	0.005442022
ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.487493339	7.24E-08	2.16E-06
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	1.487909833	0.002314189	0.016099109
ENSMMUG000000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	1.488411725	3.63E-10	1.79E-08
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	1.489242435	2.37E-13	2.07E-11
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.491468951	6.79E-06	0.000118303
ENSMMUG00000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	1.49161978	4.24E-06	7.85E-05
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	1.495488826	1.09E-12	8.73E-11
ENSMMUG00000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]	1.49581931	5.71E-10	2.71E-08

ENSMMUG00000010008	IK cytokine [Source:VGNC Symbol;Acc:VGNC:73703]	1.49583505	0.005601606	0.031849356
ENSMMUG00000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	1.499273914	2.54E-05	0.000352754
ENSMMUG00000003098	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]	1.500735387	9.21E-12	6.15E-10
ENSMMUG00000005793	ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]	1.501839896	0.007056852	0.038050919
ENSMMUG000000031785		1.510742982	6.97E-07	1.60E-05
ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	1.512356686	0.005554779	0.031699013
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	1.5129374	2.93E-07	7.32E-06
ENSMMUG00000011962	protein tyrosine phosphatase receptor type S [Source:VGNC Symbol;Acc:VGNC:76622]	1.51479042	0.002523663	0.017151638
ENSMMUG00000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	1.51493768	1.69E-08	6.02E-07
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	1.516542952	5.36E-07	1.26E-05
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	1.527107957	0.000208799	0.00219644
ENSMMUG00000009593	WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]	1.529077259	1.06E-05	0.000170513
ENSMMUG00000056945		1.52961334	4.69E-07	1.12E-05
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	1.533119874	9.76E-10	4.41E-08
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	1.534372687	5.10E-07	1.21E-05
ENSMMUG00000021022	deoxynucleotidyltransferase terminal interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:71845]	1.534431051	0.000262366	0.00266025
ENSMMUG00000038363	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]	1.535079403	2.34E-09	9.70E-08
ENSMMUG00000023477		1.536715031	9.78E-11	5.24E-09
ENSMMUG00000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	1.538072498	5.44E-05	0.000688578
ENSMMUG00000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	1.538992802	8.42E-06	0.000140889
ENSMMUG00000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	1.540095472	7.23E-06	0.00012443
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]	1.545780395	0.000909846	0.007482791
ENSMMUG00000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	1.54592352	1.78E-07	4.69E-06
ENSMMUG00000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.546294065	1.11E-06	2.44E-05
ENSMMUG00000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	1.547011255	1.94E-11	1.20E-09
ENSMMUG00000052867		1.547590359	0.000217395	0.002272185
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	1.548412324	3.85E-06	7.21E-05
ENSMMUG00000058437		1.551964974	2.13E-05	0.000304116
ENSMMUG00000012697	AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]	1.553498542	0.000183844	0.001969553
ENSMMUG00000008383	major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]	1.553816502	0.000202879	0.002145249
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	1.554365056	0.000124705	0.001422058
ENSMMUG00000057274	hemoglobin subunit mu [Source:NCBI gene;Acc:694058]	1.556900054	0.007120357	0.038266634
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	1.557237098	8.66E-05	0.001025956
ENSMMUG00000050608		1.557764608	2.04E-05	0.00029645
ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]	1.5640182	2.30E-08	7.85E-07
ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	1.56753916	5.12E-16	6.73E-14
ENSMMUG00000060576		1.568589601	0.000873418	0.007234354
ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	1.571744086	9.14E-16	1.18E-13
ENSMMUG00000018478	interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]	1.57615348	0.000192937	0.002053455
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	1.577168918	4.49E-08	1.44E-06
ENSMMUG00000021415	BAI1 associated protein 3 [Source:VGNC Symbol;Acc:VGNC:70223]	1.578027387	0.002271012	0.015872211
ENSMMUG00000064005		1.578931513	0.008327258	0.043519597
ENSMMUG00000014123	alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]	1.584221291	0.006111472	0.03417555
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	1.585466709	1.62E-06	3.40E-05
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]	1.587176915	4.69E-17	7.49E-15
ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]	1.58886322	3.46E-05	0.000458521
ENSMMUG00000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	1.598269903	0.000816012	0.006863603
ENSMMUG00000009361	fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]	1.598659205	0.002068123	0.014691109
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	1.599035902	1.03E-08	3.85E-07
ENSMMUG00000022345		1.599273543	0.00698034	0.037877926
ENSMMUG00000009788	tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]	1.604951509	0.005895978	0.033232983

ENSMMUG0000001911	steroid receptor associated and regulated protein [Source:VGNC Symbol;Acc:VGNC:78008]	1.605712632	0.000117079	0.001342618
ENSMMUG00000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	1.606823736	1.76E-09	7.58E-08
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	1.608161452	4.41E-10	2.15E-08
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	1.608790303	2.80E-05	0.000384081
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]	1.609551189	2.11E-11	1.28E-09
ENSMMUG00000007366		1.610319163	2.92E-05	0.000395461
ENSMMUG00000056555		1.611227999	5.55E-06	9.93E-05
ENSMMUG00000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]	1.612169379	2.20E-07	5.64E-06
ENSMMUG00000064557		1.616362566	8.26E-06	0.000138651
ENSMMUG00000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	1.619207274	1.04E-05	0.000168936
ENSMMUG00000056971	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.621239818	0.008031803	0.042326821
ENSMMUG00000002810	TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]	1.621654833	5.84E-08	1.81E-06
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]	1.623667287	5.35E-09	2.07E-07
ENSMMUG00000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]	1.624346467	2.76E-05	0.000380256
ENSMMUG00000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]	1.626854441	0.000194005	0.002062123
ENSMMUG00000060289		1.629825121	2.58E-14	2.72E-12
ENSMMUG00000019041	hydroxysteroid 17-beta dehydrogenase 11 [Source:VGNC Symbol;Acc:VGNC:73431]	1.631040353	0.005047342	0.029650402
ENSMMUG00000063121		1.632402487	0.008567141	0.04445492
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	1.632458102	2.45E-09	1.01E-07
ENSMMUG00000049935		1.633224937	0.000297541	0.002950768
ENSMMUG00000058566		1.633414186	2.18E-08	7.48E-07
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	1.634669573	6.81E-08	2.05E-06
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]	1.636613777	6.95E-06	0.000120733
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	1.637367747	2.00E-11	1.22E-09
ENSMMUG00000018275	docking protein 6 [Source:VGNC Symbol;Acc:VGNC:71915]	1.637899471	0.002341741	0.016206703
ENSMMUG00000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	1.639241536	1.32E-10	6.96E-09
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]	1.640274668	8.99E-08	2.56E-06
ENSMMUG00000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	1.646378214	0.000747931	0.006376597
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	1.655772416	7.44E-08	2.20E-06
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	1.65723485	8.43E-05	0.001007812
ENSMMUG00000017280	TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]	1.658722016	0.002780129	0.018508855
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]	1.66405902	4.04E-07	9.84E-06
ENSMMUG00000004024	cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]	1.665307318	0.000726149	0.006212272
ENSMMUG00000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	1.667467236	6.44E-05	0.000795624
ENSMMUG00000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]	1.669636406	1.56E-08	5.61E-07
ENSMMUG00000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	1.669892884	1.86E-16	2.61E-14
ENSMMUG00000052047		1.670096802	3.89E-06	7.25E-05
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	1.671825692	2.10E-08	7.29E-07
ENSMMUG00000013099	pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]	1.673617665	0.000302667	0.00299067
ENSMMUG00000006758	cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]	1.678145791	1.42E-05	0.000218424
ENSMMUG00000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	1.682822998	0.000147376	0.001646003
ENSMMUG00000038067		1.682947116	0.003333005	0.021334377
ENSMMUG00000056840		1.6857607	1.76E-07	4.65E-06
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	1.685761894	0.002780193	0.018508855
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	1.692469574	1.22E-09	5.41E-08
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]	1.693863126	0.00285278	0.01896109
ENSMMUG00000053376		1.699549173	2.30E-06	4.65E-05
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	1.700734628	5.86E-05	0.000735687
ENSMMUG00000017983	tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]	1.708949693	0.004762522	0.028366096
ENSMMUG00000018664	collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]	1.710290716	0.000278575	0.002785656
ENSMMUG00000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]	1.71096499	1.84E-11	1.15E-09

ENSMMUG00000050028		1.716449553	3.59E-06	6.79E-05
ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.720526129	8.27E-07	1.85E-05
ENSMMUG00000004877	heterogeneous nuclear ribonucleoprotein L [Source:VGNC Symbol;Acc:VGNC:81187]	1.721285676	0.001123605	0.008986631
ENSMMUG000000062863		1.722219046	0.001232947	0.009717958
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	1.722310419	9.11E-18	1.77E-15
ENSMMUG00000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	1.722477815	3.58E-07	8.83E-06
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	1.726474599	0.001219056	0.009636461
ENSMMUG00000009564	NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]	1.729177721	0.005869691	0.03317211
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	1.729348852	1.85E-17	3.15E-15
ENSMMUG000000055914		1.730070847	4.35E-06	8.03E-05
ENSMMUG000000061079	golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]	1.730254164	1.33E-11	8.76E-10
ENSMMUG000000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	1.733318051	7.27E-07	1.66E-05
ENSMMUG000000065208		1.733904001	0.005339113	0.03102859
ENSMMUG000000056376		1.734620099	0.000417203	0.003908937
ENSMMUG00000018345	phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	1.740597065	1.64E-09	7.11E-08
ENSMMUG000000053013		1.746613379	1.06E-05	0.00017082
ENSMMUG000000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]	1.747303287	3.01E-05	0.000404377
ENSMMUG000000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	1.750776763	0.001162657	0.009235466
ENSMMUG000000014699		1.752639848	4.15E-21	1.41E-18
ENSMMUG000000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	1.753760268	0.001609703	0.012013014
ENSMMUG000000064707		1.754568676	0.000539165	0.00484
ENSMMUG000000045513		1.756287453	0.00930107	0.047419731
ENSMMUG000000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.765341038	3.07E-11	1.78E-09
ENSMMUG000000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]	1.770136187	4.52E-13	3.72E-11
ENSMMUG000000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	1.772200066	0.000451886	0.004180976
ENSMMUG000000009176	calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]	1.774040836	2.36E-08	8.01E-07
ENSMMUG000000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	1.778920201	2.01E-06	4.11E-05
ENSMMUG000000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	1.780779125	0.000409483	0.003849893
ENSMMUG000000014237	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	1.784928443	4.91E-13	4.00E-11
ENSMMUG000000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	1.788366537	2.91E-12	2.10E-10
ENSMMUG000000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]	1.793406622	3.74E-07	9.16E-06
ENSMMUG000000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	1.795176161	1.61E-05	0.000243335
ENSMMUG000000061098		1.796227718	4.21E-13	3.50E-11
ENSMMUG000000061342		1.796717193	6.12E-10	2.88E-08
ENSMMUG000000018235	chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]	1.797093561	5.51E-05	0.000695773
ENSMMUG000000004576	C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]	1.797304119	0.003097716	0.020064922
ENSMMUG000000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	1.797495316	0.000926772	0.007598973
ENSMMUG000000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	1.801156053	0.000309068	0.00304653
ENSMMUG000000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	1.80337099	3.83E-14	3.90E-12
ENSMMUG000000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	1.805016475	4.09E-09	1.62E-07
ENSMMUG000000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	1.807882597	1.37E-10	7.18E-09
ENSMMUG000000003106	SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]	1.809606066	1.63E-08	5.83E-07
ENSMMUG000000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	1.810671496	1.68E-11	1.06E-09
ENSMMUG000000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	1.815928132	6.49E-08	1.98E-06
ENSMMUG000000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	1.816920893	8.76E-07	1.95E-05
ENSMMUG000000023300	FERM domain containing 8 [Source:NCBI gene;Acc:716379]	1.818645048	0.008041033	0.042348054
ENSMMUG000000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	1.820817991	4.19E-10	2.05E-08
ENSMMUG000000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	1.822461442	0.00167112	0.012376256
ENSMMUG000000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	1.826309609	5.15E-06	9.37E-05
ENSMMUG000000055897		1.831683941	1.31E-06	2.82E-05
ENSMMUG000000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]	1.835245168	0.000346499	0.003338688

ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	1.837129369	4.82E-10	2.31E-08
ENSMMUG00000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	1.840404523	1.30E-07	3.53E-06
ENSMMUG00000050132		1.840867925	0.000675081	0.005859021
ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	1.841911622	0.006659114	0.036560017
ENSMMUG00000061335		1.844969292	0.000612632	0.005380855
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	1.847574789	0.004570379	0.027544063
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	1.850365299	3.14E-11	1.81E-09
ENSMMUG00000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]	1.860308342	3.03E-10	1.52E-08
ENSMMUG00000057157		1.862070262	0.000879675	0.007278773
ENSMMUG00000010180	PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	1.865627477	0.005171485	0.030206034
ENSMMUG00000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	1.866319823	0.000182983	0.001962911
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	1.866545042	1.71E-05	0.000254479
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	1.866617436	7.89E-07	1.78E-05
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	1.867834983	2.74E-09	1.12E-07
ENSMMUG00000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	1.871082506	5.73E-10	2.71E-08
ENSMMUG00000014131	microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]	1.875326216	0.001081639	0.008702278
ENSMMUG00000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]	1.876384904	1.27E-12	9.91E-11
ENSMMUG00000050868		1.876610542	8.29E-08	2.40E-06
ENSMMUG00000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	1.880523173	9.27E-07	2.03E-05
ENSMMUG00000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	1.881164902	2.22E-17	3.70E-15
ENSMMUG00000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	1.882237108	2.17E-07	5.58E-06
ENSMMUG00000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	1.885477032	3.30E-13	2.79E-11
ENSMMUG00000013206	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta [Source:VGNC Symbol;Acc:VGNC:78819]	1.887662696	0.00461624	0.027717863
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	1.889902167	0.000355836	0.003412508
ENSMMUG00000021877	protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]	1.89388648	1.13E-05	0.000180173
ENSMMUG00000058311		1.894018741	0.000549372	0.004904594
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	1.896324921	0.000261679	0.00266025
ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	1.911571617	3.69E-07	9.08E-06
ENSMMUG00000055811		1.917850558	5.08E-05	0.000647345
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	1.920127775	2.64E-14	2.76E-12
ENSMMUG00000049494		1.920544889	0.008572123	0.04445492
ENSMMUG00000010470	zinc finger with KRAB and SCAN domains 2 [Source:VGNC Symbol;Acc:VGNC:79529]	1.925596967	0.000138108	0.001561767
ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]	1.925866162	0.004086809	0.025132021
ENSMMUG00000017370	signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]	1.92610483	0.002453291	0.016771365
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	1.931274132	6.78E-17	1.02E-14
ENSMMUG00000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	1.932012886	8.30E-08	2.40E-06
ENSMMUG00000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.932524607	7.82E-08	2.30E-06
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	1.93423328	0.000196953	0.002088011
ENSMMUG00000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	1.935429817	3.94E-16	5.25E-14
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	1.937864627	0.000687805	0.005944915
ENSMMUG00000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	1.940627486	1.67E-17	2.95E-15
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	1.941499239	1.03E-18	2.26E-16
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	1.942836294	5.81E-06	0.000103049
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	1.949646483	1.44E-17	2.67E-15
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	1.954620959	1.80E-23	8.13E-21
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	1.955297127	4.31E-05	0.000558628
ENSMMUG00000050543		1.959654344	4.04E-05	0.000526531
ENSMMUG00000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	1.963307531	0.000244152	0.002516312
ENSMMUG00000061896		1.966976373	0.001469951	0.011185365
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.967144044	2.22E-26	1.50E-23
ENSMMUG00000010309	septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]	1.970147907	0.0009495	0.00775409

ENSMMUG0000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]	1.971294755	6.35E-11	3.59E-09
ENSMMUG0000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	1.972403247	1.58E-12	1.21E-10
ENSMMUG00000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.974410884	0.005872004	0.03317211
ENSMMUG00000009441	abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]	1.976096902	8.39E-05	0.001004702
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]	1.980045933	1.10E-05	0.000175288
ENSMMUG00000062454		1.990159673	1.94E-08	6.75E-07
ENSMMUG00000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]	1.997507315	9.07E-10	4.17E-08
ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]	2.00210345	3.00E-06	5.80E-05
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	2.003462626	3.26E-05	0.000433581
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	2.006304125	8.52E-11	4.65E-09
ENSMMUG00000011528	F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]	2.009271583	9.18E-06	0.000150128
ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]	2.009821743	9.63E-09	3.61E-07
ENSMMUG00000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	2.010807564	4.51E-12	3.17E-10
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]	2.010906478	2.21E-10	1.12E-08
ENSMMUG00000057934		2.012474665	0.000307757	0.003037282
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	2.014455894	0.000112727	0.001298194
ENSMMUG00000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	2.015392198	0.001107329	0.008891394
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	2.019898613	4.16E-08	1.34E-06
ENSMMUG00000023282	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]	2.026155041	2.01E-09	8.51E-08
ENSMMUG00000051975		2.02814595	0.00084677	0.007071177
ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]	2.028265727	0.001298719	0.010147954
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	2.032365762	7.69E-25	4.47E-22
ENSMMUG00000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	2.037710453	2.85E-05	0.000389297
ENSMMUG00000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	2.041983609	0.000148633	0.00165769
ENSMMUG00000013129	peptidylprolyl isomerase H [Source:NCBI gene;Acc:697669]	2.050972099	0.002348068	0.01621962
ENSMMUG00000010137	microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]	2.056600304	0.000362656	0.003465665
ENSMMUG00000059182		2.058279082	5.58E-06	9.95E-05
ENSMMUG00000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	2.058698258	8.54E-10	3.95E-08
ENSMMUG00000014138	forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]	2.060047184	8.03E-06	0.000135344
ENSMMUG00000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	2.061110259	1.86E-17	3.15E-15
ENSMMUG00000065295		2.0624122	1.28E-13	1.18E-11
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	2.062739809	2.25E-22	8.71E-20
ENSMMUG00000058592		2.06772969	5.27E-06	9.52E-05
ENSMMUG00000057499		2.06813856	0.004204815	0.025760424
ENSMMUG00000032142	complement C8 gamma chain [Source:VGNC Symbol;Acc:VGNC:70481]	2.070812748	0.003093982	0.020056691
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	2.075290378	9.18E-14	8.81E-12
ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]	2.080936183	2.60E-08	8.78E-07
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	2.082256129	3.91E-05	0.000511413
ENSMMUG00000013713	beta 3-glycosyltransferase [Source:NCBI gene;Acc:713498]	2.082970346	0.000152001	0.001681506
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	2.084073133	1.48E-10	7.65E-09
ENSMMUG00000062326		2.084077266	8.78E-06	0.000145254
ENSMMUG00000054414		2.08724311	8.67E-05	0.001026457
ENSMMUG00000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	2.089326559	0.001110914	0.00891139
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	2.090430839	1.25E-07	3.41E-06
ENSMMUG00000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	2.090812342	1.29E-15	1.64E-13
ENSMMUG00000020020	Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]	2.093697301	0.00632165	0.035014201
ENSMMUG00000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	2.094202744	7.74E-11	4.26E-09
ENSMMUG00000053481		2.095244979	1.82E-05	0.000267735
ENSMMUG00000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	2.095398995	1.09E-13	1.02E-11
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	2.096876682	2.11E-09	8.79E-08

ENSMMUG00000052777		2.098217975	0.000972047	0.007906496
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	2.104379195	0.002930239	0.019318225
ENSMMUG00000009988	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	2.104637122	1.42E-12	1.10E-10
ENSMMUG00000010824	SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]	2.10688107	0.000427417	0.003989841
ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	2.109749816	9.23E-13	7.44E-11
ENSMMUG00000060795		2.111695681	0.000612083	0.005380855
ENSMMUG00000057687		2.111848332	8.23E-12	5.59E-10
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	2.114123688	2.68E-11	1.59E-09
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	2.115151045	8.30E-08	2.40E-06
ENSMMUG00000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]	2.123753616	3.68E-06	6.94E-05
ENSMMUG00000019526	BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]	2.127865503	2.35E-06	4.73E-05
ENSMMUG00000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]	2.130502031	4.44E-10	2.15E-08
ENSMMUG00000049678		2.133272989	2.55E-11	1.53E-09
ENSMMUG00000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]	2.136834556	3.43E-10	1.70E-08
ENSMMUG00000005482	lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]	2.141457068	0.007721596	0.040938669
ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	2.143427936	7.54E-19	1.71E-16
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]	2.143615946	0.000443007	0.004103482
ENSMMUG00000054686		2.159637377	1.67E-12	1.27E-10
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	2.164927343	6.12E-07	1.42E-05
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	2.180652477	9.00E-21	2.82E-18
ENSMMUG00000010466	solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]	2.182418083	3.74E-09	1.50E-07
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	2.183567808	2.82E-19	7.16E-17
ENSMMUG00000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	2.186390394	2.09E-13	1.85E-11
ENSMMUG00000010316	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]	2.189655981	4.62E-11	2.63E-09
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.190184762	1.34E-16	1.94E-14
ENSMMUG00000054568		2.19330436	8.53E-05	0.001015379
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]	2.197049963	5.90E-19	1.41E-16
ENSMMUG00000060502		2.202216941	1.40E-07	3.75E-06
ENSMMUG00000023139	small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]	2.203005195	0.003108634	0.020088525
ENSMMUG00000054512		2.207362716	0.00182177	0.013255455
ENSMMUG00000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.20831513	9.65E-08	2.69E-06
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	2.211582413	0.00052329	0.00470965
ENSMMUG00000004283	calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]	2.219762416	0.001321403	0.010275895
ENSMMUG00000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	2.221216375	9.20E-14	8.81E-12
ENSMMUG00000059188		2.222174125	5.32E-06	9.57E-05
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	2.222699314	2.83E-11	1.66E-09
ENSMMUG00000001545	aquaporin 7 [Source:NCBI gene;Acc:702836]	2.23207244	0.000171455	0.001863797
ENSMMUG00000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	2.234221826	1.45E-11	9.35E-10
ENSMMUG00000001273	clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]	2.238806917	2.62E-13	2.27E-11
ENSMMUG00000006659	aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]	2.242420423	0.000107505	0.001246871
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	2.244942687	7.76E-15	8.90E-13
ENSMMUG00000007799	LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]	2.247644924	9.09E-05	0.001069397
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	2.252627512	1.33E-18	2.84E-16
ENSMMUG00000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	2.254473687	0.000541429	0.004854972
ENSMMUG00000063988		2.259707114	0.004755464	0.028344794
ENSMMUG00000023146	ASH1 like histone lysine methyltransferase [Source:NCBI gene;Acc:717778]	2.261756462	6.02E-05	0.000754526
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]	2.269664759	4.06E-13	3.41E-11
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]	2.270517285	1.76E-14	1.96E-12
ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]	2.275250013	0.002249502	0.015761998
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	2.283563362	1.89E-05	0.000276228
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	2.285206131	8.43E-06	0.000140889

ENSMMUG00000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.287269694	2.59E-15	3.20E-13
ENSMMUG00000060000		2.296120939	0.006688736	0.036673194
ENSMMUG00000057329		2.296159397	0.006607383	0.036349536
ENSMMUG00000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]	2.304932785	1.77E-07	4.65E-06
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	2.313905395	2.57E-15	3.20E-13
ENSMMUG00000020185	voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]	2.319195474	0.002387064	0.016452438
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	2.319909111	0.000442505	0.004103482
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	2.32386095	1.24E-05	0.000194914
ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	2.326749711	2.88E-13	2.47E-11
ENSMMUG00000013450	TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]	2.329090878	0.002658991	0.017847904
ENSMMUG00000007534	protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]	2.33379025	3.09E-12	2.20E-10
ENSMMUG00000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	2.334579868	3.16E-14	3.26E-12
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	2.336648587	0.000208134	0.002192277
ENSMMUG00000012349	thiosulfate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:78664]	2.339977818	0.004855853	0.028795597
ENSMMUG00000023449	mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]	2.34190039	0.000610799	0.005376351
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	2.343957061	1.46E-16	2.09E-14
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	2.344800403	4.28E-48	1.16E-44
ENSMMUG00000000842	RNA pseudouridine synthase domain containing 1 [Source:NCBI gene;Acc:722393]	2.349772056	0.002427364	0.016622032
ENSMMUG00000003797	ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]	2.364236334	0.000918661	0.00754006
ENSMMUG000000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	2.364277677	8.52E-31	8.67E-28
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	2.386542016	6.75E-12	4.62E-10
ENSMMUG000000049130		2.389013522	6.76E-15	7.87E-13
ENSMMUG00000017906	DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]	2.390172842	0.009889715	0.049735677
ENSMMUG00000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	2.39073036	6.30E-08	1.93E-06
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	2.39098514	2.56E-12	1.90E-10
ENSMMUG00000009884	hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]	2.39141919	0.003110746	0.020088525
ENSMMUG00000001475	transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]	2.391531291	0.000474586	0.004356349
ENSMMUG00000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	2.397290652	3.08E-05	0.000411515
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	2.397728139	0.001662282	0.012348811
ENSMMUG00000064554	leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]	2.405371774	0.002230378	0.015654945
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	2.408149919	0.008721112	0.045045213
ENSMMUG00000062254		2.410035917	0.003566617	0.022511159
ENSMMUG00000063914		2.411881158	1.23E-17	2.33E-15
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]	2.415695381	9.93E-05	0.001161133
ENSMMUG00000057539		2.420659584	0.000636697	0.005562215
ENSMMUG00000062037	stannin [Source:NCBI gene;Acc:711909]	2.422992548	0.000357226	0.003421809
ENSMMUG00000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	2.428831248	4.03E-05	0.000526297
ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]	2.445576937	9.05E-06	0.000148523
ENSMMUG00000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]	2.446964383	3.51E-15	4.15E-13
ENSMMUG00000061031		2.47018254	2.60E-06	5.15E-05
ENSMMUG00000064730		2.471083384	1.05E-05	0.000169911
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]	2.477867986	4.54E-26	2.84E-23
ENSMMUG00000039009		2.478727682	2.47E-05	0.000345624
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	2.480620156	0.001595989	0.011943514
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	2.494209334	8.18E-07	1.83E-05
ENSMMUG00000023297	solute carrier family 25 member 45 [Source:VGNC Symbol;Acc:VGNC:77576]	2.497379302	0.006965674	0.037834903
ENSMMUG00000010007	CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]	2.508201542	0.000262332	0.00266025
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]	2.513160511	5.21E-05	0.000662398
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	2.51962111	4.30E-08	1.38E-06
ENSMMUG00000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]	2.520458859	1.09E-08	4.00E-07
ENSMMUG00000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	2.520836751	3.85E-06	7.21E-05

ENSMMUG0000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]	2.527113325	3.19E-06	6.11E-05
ENSMMUG00000058536		2.530115594	2.80E-11	1.65E-09
ENSMMUG00000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	2.531447484	3.82E-07	9.34E-06
ENSMMUG00000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	2.533335323	0.003221335	0.020733683
ENSMMUG00000051925		2.542253295	0.000144502	0.001620573
ENSMMUG00000009508	TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]	2.545821501	0.002063631	0.014674309
ENSMMUG00000010318	phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]	2.549957198	1.10E-07	3.03E-06
ENSMMUG00000015244	uncoupling protein 1 [Source:VGNC Symbol;Acc:VGNC:78708]	2.55625199	0.001919225	0.013791994
ENSMMUG00000013422	CEA cell adhesion molecule 4 [Source:NCBI gene;Acc:705453]	2.559402087	0.002326685	0.016149934
ENSMMUG00000028907	insulin receptor [Source:NCBI gene;Acc:706009]	2.559637599	5.76E-06	0.0001024
ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.561734591	8.49E-06	0.000141709
ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	2.565669935	6.20E-17	9.71E-15
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	2.570549916	1.32E-07	3.57E-06
ENSMMUG00000053790		2.589305229	1.10E-12	8.73E-11
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.599792002	2.93E-05	0.000396612
ENSMMUG00000001820	regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]	2.607184522	0.008327626	0.043519597
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	2.608068782	2.42E-05	0.000339547
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	2.608559119	2.23E-21	7.89E-19
ENSMMUG00000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	2.608595036	4.03E-18	8.01E-16
ENSMMUG00000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	2.608801511	7.36E-05	0.000897671
ENSMMUG00000060435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.610035125	0.007420506	0.039613053
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	2.618989121	0.002292104	0.015991694
ENSMMUG00000052954	Wnt family member 6 [Source:NCBI gene;Acc:700573]	2.619985564	0.008441823	0.044003405
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]	2.631130469	4.09E-07	9.95E-06
ENSMMUG00000005504	nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]	2.642949991	0.002401605	0.016501155
ENSMMUG00000057570		2.64567135	8.22E-17	1.22E-14
ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]	2.646931265	0.001546312	0.011635923
ENSMMUG00000019126	purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]	2.647043495	0.000787008	0.006647115
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	2.650045398	4.57E-14	4.60E-12
ENSMMUG00000000553	bromodomain containing 1 [Source:VGNC Symbol;Acc:VGNC:70280]	2.657868901	0.004521324	0.02728579
ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	2.658397016	3.38E-15	4.04E-13
ENSMMUG00000004587	gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]	2.659312471	0.006838249	0.03731704
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	2.662617958	6.57E-19	1.53E-16
ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	2.673782899	1.16E-14	1.31E-12
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]	2.678672009	3.75E-31	4.36E-28
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	2.680886158	2.55E-06	5.07E-05
ENSMMUG00000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	2.684757685	2.21E-16	3.04E-14
ENSMMUG00000001910	heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]	2.691847643	2.46E-05	0.000344174
ENSMMUG00000021477	ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]	2.710846163	1.05E-07	2.90E-06
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	2.711075953	9.19E-08	2.61E-06
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	2.715224738	2.14E-14	2.33E-12
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	2.715565348	7.24E-11	4.01E-09
ENSMMUG00000018823	transmembrane protein 191C [Source:NCBI gene;Acc:697070]	2.717841017	0.005443541	0.031300359
ENSMMUG00000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.726037511	0.000772019	0.006540876
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	2.750479459	2.60E-16	3.53E-14
ENSMMUG00000049355	ALX homeobox 4 [Source:NCBI gene;Acc:715652]	2.752353126	0.000752509	0.006402227
ENSMMUG00000038944		2.75613941	6.19E-38	8.40E-35
ENSMMUG00000019690	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	2.757500187	6.05E-06	0.000106464
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	2.761508639	6.50E-20	1.89E-17
ENSMMUG00000058916		2.770088354	2.70E-05	0.000372976
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	2.798189644	9.36E-14	8.86E-12

ENSMMUG0000000603	Rho GDP dissociation inhibitor gamma [Source:VGNC Symbol;Acc:VGNC:70011]	2.798256005	0.000714029	0.006151985
ENSMMUG00000005108	RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]	2.802087659	2.72E-06	5.32E-05
ENSMMUG000000062139		2.80696731	8.00E-06	0.000135204
ENSMMUG000000056798		2.820787732	0.000932476	0.007638049
ENSMMUG000000060767		2.830383253	0.000227616	0.002366861
ENSMMUG00000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	2.834623419	0.006704088	0.036707927
ENSMMUG000000061576		2.837271827	0.001568273	0.01177941
ENSMMUG000000062794		2.853736363	6.76E-07	1.56E-05
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	2.854690274	0.001334934	0.010321967
ENSMMUG000000055820		2.882248023	0.007567119	0.040242642
ENSMMUG00000001748	spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]	2.88251829	0.000165896	0.001813058
ENSMMUG000000052569		2.886796558	5.45E-05	0.000689164
ENSMMUG000000014032	proline rich 36 [Source:NCBI gene;Acc:710443]	2.919104361	0.000495462	0.004497267
ENSMMUG000000049894		2.937491029	0.001379104	0.01057313
ENSMMUG000000016929	proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]	2.939037758	1.31E-05	0.000204017
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	2.94046386	1.80E-43	3.66E-40
ENSMMUG000000063525		2.958259225	5.21E-06	9.45E-05
ENSMMUG000000005920	N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]	2.961810619	0.009674506	0.049016692
ENSMMUG000000060632		2.982755572	0.003496897	0.022122558
ENSMMUG000000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	2.999137057	2.89E-09	1.17E-07
ENSMMUG000000061533		3.006218476	5.97E-14	5.93E-12
ENSMMUG000000057825		3.009512415	0.003755731	0.023544537
ENSMMUG00000006655	myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]	3.027500869	0.001150048	0.009153171
ENSMMUG000000014397	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	3.032284382	2.64E-06	5.22E-05
ENSMMUG000000023286	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	3.040294117	1.41E-13	1.28E-11
ENSMMUG000000053083	C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]	3.050971287	4.03E-06	7.49E-05
ENSMMUG000000018151	membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]	3.051352102	0.005898546	0.033232983
ENSMMUG000000059504		3.06880747	0.000261866	0.00266025
ENSMMUG000000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	3.072305848	7.70E-10	3.60E-08
ENSMMUG000000007726	synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]	3.084823705	0.000349211	0.003356875
ENSMMUG000000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	3.094106523	5.28E-06	9.52E-05
ENSMMUG000000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	3.094562279	1.53E-20	4.61E-18
ENSMMUG000000059175		3.114757421	1.93E-12	1.46E-10
ENSMMUG00000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]	3.116516144	1.52E-11	9.73E-10
ENSMMUG000000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	3.1183989	1.87E-08	6.57E-07
ENSMMUG000000046186	stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]	3.127543747	0.000405993	0.003829958
ENSMMUG000000023403	GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]	3.13561103	3.47E-05	0.000458725
ENSMMUG000000062083		3.143427967	0.001806143	0.013153506
ENSMMUG000000062091		3.14845463	2.96E-05	0.000398731
ENSMMUG000000058817		3.148776244	1.02E-19	2.78E-17
ENSMMUG000000015468	checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]	3.152419582	1.41E-05	0.000216273
ENSMMUG000000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]	3.166294803	0.008549882	0.044437546
ENSMMUG000000053457	caspase 14 [Source:NCBI gene;Acc:718049]	3.191192061	2.31E-10	1.17E-08
ENSMMUG000000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	3.215838482	3.01E-06	5.82E-05
ENSMMUG000000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.242007985	8.95E-08	2.56E-06
ENSMMUG000000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	3.251924635	3.67E-11	2.10E-09
ENSMMUG000000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	3.262271599	1.39E-11	9.07E-10
ENSMMUG000000008197	netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]	3.266883487	0.009754283	0.049237059
ENSMMUG00000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	3.273266856	1.62E-11	1.03E-09
ENSMMUG000000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	3.277338817	5.21E-05	0.000662398
ENSMMUG000000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]	3.27790398	0.001070059	0.008617629

ENSMMUG00000052530		3.292625289	0.000758686	0.006448038
ENSMMUG00000017822	periplakin [Source:VGNC Symbol;Acc:VGNC:76240]	3.318344829	6.75E-08	2.04E-06
ENSMMUG00000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	3.319970868	7.45E-30	6.06E-27
ENSMMUG00000057179	cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]	3.351141823	9.36E-08	2.62E-06
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	3.356453427	2.02E-09	8.51E-08
ENSMMUG00000004749	PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]	3.365471115	0.000129913	0.001471145
ENSMMUG00000057632		3.36634539	1.14E-09	5.10E-08
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	3.371407427	2.31E-14	2.47E-12
ENSMMUG00000016894	ribosomal protein S25 [Source:NCBI gene;Acc:702593]	3.39403036	0.002935921	0.019328741
ENSMMUG00000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	3.460820342	1.84E-06	3.83E-05
ENSMMUG00000046169		3.462317659	2.83E-15	3.44E-13
ENSMMUG00000056184		3.470976539	0.003756369	0.023544537
ENSMMUG00000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	3.487594912	0.000151535	0.001678633
ENSMMUG00000053627		3.514774015	0.005793409	0.032802457
ENSMMUG00000011682	ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]	3.527570683	0.002444568	0.016725777
ENSMMUG00000061935		3.53151657	1.14E-22	4.66E-20
ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]	3.534098084	2.74E-12	2.00E-10
ENSMMUG00000006853	crystallin beta B2 [Source:NCBI gene;Acc:100144420]	3.537499203	4.69E-05	0.000602036
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]	3.541703696	3.41E-08	1.12E-06
ENSMMUG00000058423		3.54980377	9.29E-08	2.62E-06
ENSMMUG00000059782		3.550608356	2.95E-17	4.80E-15
ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]	3.613841737	5.54E-05	0.000697828
ENSMMUG00000052168		3.628831513	1.39E-30	1.26E-27
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	3.665228684	3.35E-08	1.11E-06
ENSMMUG00000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	3.680256274	1.90E-06	3.90E-05
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.695899738	2.90E-05	0.000394435
ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	3.759151866	7.80E-21	2.54E-18
ENSMMUG00000012039	cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]	3.782489936	0.000142173	0.001601068
ENSMMUG00000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	3.789707388	0.000316115	0.003089809
ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	3.794532631	0.001297958	0.010147954
ENSMMUG00000059036		3.811212372	0.007274539	0.039042781
ENSMMUG00000050495		3.820241317	0.007283958	0.039042781
ENSMMUG00000056796	NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]	3.883764605	0.005065503	0.029735636
ENSMMUG00000047729	inositol 1,4,5-trisphosphate receptor type 3 [Source:NCBI gene;Acc:718040]	3.94879664	0.00549557	0.03155496
ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]	3.966750555	9.63E-05	0.001130137
ENSMMUG00000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	4.021363662	9.88E-24	5.03E-21
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	4.026247874	4.77E-49	1.94E-45
ENSMMUG00000011344	solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]	4.062741775	1.83E-05	0.000267735
ENSMMUG00000056248		4.079287175	2.00E-40	3.26E-37
ENSMMUG00000021157	TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]	4.084855389	6.85E-06	0.000119233
ENSMMUG00000060184	SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]	4.084910214	0.006214704	0.034539328
ENSMMUG00000063779		4.113001043	2.14E-77	1.74E-73
ENSMMUG00000049267		4.187211089	2.01E-07	5.22E-06
ENSMMUG00000057481		4.218812746	0.001792544	0.013077863
ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	4.371818344	5.14E-08	1.62E-06
ENSMMUG00000053837		4.383975187	0.001741277	0.012772501
ENSMMUG00000051037		4.459381937	6.17E-08	1.90E-06
ENSMMUG00000055973	phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]	4.473954721	0.000719578	0.0061867
ENSMMUG00000063198		4.527913088	5.22E-05	0.000662495
ENSMMUG00000063886	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.661059075	0.007999946	0.042186245
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	4.664165093	2.42E-06	4.85E-05

ENSMMUG00000048395	chromobox 6 [Source:NCBI gene;Acc:702133]	4.675341514	0.001479973	0.011219684
ENSMMUG00000010614	C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]	5.010986036	0.001182802	0.009368071
ENSMMUG00000064694	AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]	5.282462545	0.000404066	0.003821026
ENSMMUG00000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.299539659	7.59E-05	0.000916708
ENSMMUG00000057785		5.381304949	0.000128759	0.001460109
ENSMMUG00000049232	AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]	5.39061464	0.0002039	0.00215325
ENSMMUG00000059985		5.679598057	0.00017555	0.001900702
ENSMMUG00000057095		5.706724691	4.08E-05	0.00053095
ENSMMUG00000021447	TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]	5.84943077	0.000685444	0.0059308
ENSMMUG00000019961	protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]	5.85851321	0.000164982	0.001807424
ENSMMUG00000065319		6.089370695	8.56E-05	0.001017076
ENSMMUG00000027543	Y RNA [Source:RFAM;Acc:RF00019]	6.409359652	1.22E-05	0.000192483
ENSMMUG00000001989	RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]	6.948945341	7.41E-07	1.69E-05

D. Non-survivor's group radiation effects

SD 1 vs. Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000018827	multiple EGF like domains 10 [Source:VGNC Symbol;Acc:VGNC:74617]	5.894331584	1.46E-07	2.12E-06
ENSMMUG00000037485		5.565793962	1.87E-05	0.000167878
ENSMMUG00000007001	protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]	5.397906846	0.000150613	0.001027295
ENSMMUG00000052326	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	5.259983671	0.000795866	0.004324485
ENSMMUG00000059406	RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]	5.148274879	2.63E-05	0.000226987
ENSMMUG00000006457	Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]	5.131863552	2.46E-05	0.000213989
ENSMMUG000000049690		-5.03428935	0.000220487	0.001432351
ENSMMUG00000001245	zinc finger protein 532 [Source:NCBI gene;Acc:701146]	5.005558693	0.000104974	0.000753205
ENSMMUG00000052535		5.005327358	1.25E-08	2.21E-07
ENSMMUG00000055207		4.956421457	1.52E-05	0.000140611
ENSMMUG00000018163	caspase 9 [Source:NCBI gene;Acc:694544]	4.877536375	0.000406194	0.002408359
ENSMMUG00000023621	DEAD-box helicase 27 [Source:NCBI gene;Acc:703852]	4.872559424	0.000705247	0.003901079
ENSMMUG00000063609	cytochrome c oxidase subunit 6A1, mitochondrial [Source:NCBI gene;Acc:696956]	4.824209411	0.001124274	0.005740945
ENSMMUG00000060359		4.803807541	0.001265104	0.006333766
ENSMMUG00000003595	peroxisomal biogenesis factor 5 like [Source:VGNC Symbol;Acc:VGNC:75889]	4.798135455	0.000704508	0.003898744
ENSMMUG00000054315		4.796094336	1.58E-05	0.000144484
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	4.764368808	5.81E-05	0.00045653
ENSMMUG00000057173		4.752411849	0.002838068	0.01248933
ENSMMUG00000050676	leucine rich repeat containing 75A [Source:NCBI gene;Acc:699649]	4.562306268	0.003770226	0.015951753
ENSMMUG00000064587		4.546120889	0.000492515	0.002863532
ENSMMUG00000055117		4.544548876	6.92E-06	6.90E-05
ENSMMUG00000002768	neuronal regeneration related protein [Source:VGNC Symbol;Acc:VGNC:84454]	4.501618158	0.00603592	0.023439965
ENSMMUG00000051202		4.492507156	0.000996067	0.005209644
ENSMMUG00000028925	HDGF like 2 [Source:NCBI gene;Acc:693476]	4.469804717	7.80E-06	7.66E-05
ENSMMUG00000060830		4.461002473	0.002982484	0.013031537

ENSMMUG0000009431	HEN methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73241]	-	4.449106572	0.001406521	0.006926103
ENSMMUG00000050186	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	4.448561763	0.003449686	0.014778701
ENSMMUG00000051277		-	-4.38954195	0.0039012	0.016426738
ENSMMUG00000017176	DNA cross-link repair 1C [Source:NCBI gene;Acc:697493]	-	4.347239093	0.006545711	0.025118119
ENSMMUG00000001404	neuronal differentiation 2 [Source:VGNC Symbol;Acc:VGNC:75321]	-	4.331768717	0.012413574	0.042043328
ENSMMUG00000056544		-	4.323286126	1.43E-06	1.69E-05
ENSMMUG00000058459		-	4.318039062	0.001218557	0.006144677
ENSMMUG00000063396		-	4.314983327	0.008153714	0.029996198
ENSMMUG00000054953	leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]	-	4.305201786	0.001112964	0.005692652
ENSMMUG00000058242	zinc finger protein 160 [Source:NCBI gene;Acc:722722]	-	4.302932086	0.005941457	0.023183001
ENSMMUG00000006309	unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]	-	4.289898607	3.54E-05	0.000294835
ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]	-	4.277017775	3.69E-09	7.12E-08
ENSMMUG00000010959	kelch like family member 9 [Source:VGNC Symbol;Acc:VGNC:74080]	-	4.272433465	0.00121099	0.006112642
ENSMMUG00000051522	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	4.254714178	0.001657129	0.007937558
ENSMMUG00000052609	ribosomal protein L34 [Source:NCBI gene;Acc:696636]	-	4.234131103	2.59E-08	4.33E-07
ENSMMUG00000060995		-	4.181087337	0.008462571	0.030956386
ENSMMUG00000022879	EARP complex and GARP complex interacting protein 1 [Source:NCBI gene;Acc:707650]	-	4.161325647	0.002134783	0.00983088
ENSMMUG00000033490	mml-mir-625 [Source:miRBase;Acc:MI0007874]	-	4.148305797	0.012904524	0.043454659
ENSMMUG00000053550		-	4.123406946	0.003327059	0.014318234
ENSMMUG00000055529	sulfotransferase family 1C member 4 [Source:NCBI gene;Acc:693903]	-	4.105402945	0.01064352	0.037164632
ENSMMUG00000026876	mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]	-	4.101609702	0.000623571	0.003502512
ENSMMUG00000004598	bisphosphoglycerate mutase [Source:VGNC Symbol;Acc:VGNC:70275]	-	4.100323908	0.002999208	0.013099954
ENSMMUG00000021315	molybdenum cofactor synthesis 1 [Source:NCBI gene;Acc:719625]	-	4.072169188	0.012542756	0.04239907
ENSMMUG00000056824		-	4.038910591	0.000293282	0.00182594
ENSMMUG00000050174		-	-4.03406648	0.01524828	0.049752219
ENSMMUG00000045446		-	3.978510662	0.005681589	0.022382181
ENSMMUG00000000021	catsper channel auxiliary subunit epsilon [Source:VGNC Symbol;Acc:VGNC:70657]	-	3.977121391	0.009112575	0.032835727
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	-	3.976941842	1.89E-07	2.70E-06
ENSMMUG00000022727	lysine methyltransferase 2E [Source:VGNC Symbol;Acc:VGNC:74073]	-	3.965149875	0.004692922	0.019074306

ENSMMUG00000049117	CLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]	-	3.957954586	0.008884224	0.032173245
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	-	3.956634311	0.000177561	0.001191916
ENSMMUG000000057651	frizzled class receptor 5 [Source:NCBI gene;Acc:710796]	-	3.908112144	0.001129367	0.005757384
ENSMMUG000000021875	myoneurin [Source:VGNC Symbol;Acc:VGNC:74958]	-	3.895219255	0.008774379	0.031841127
ENSMMUG000000052457	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.884063202	0.005733494	0.022536098
ENSMMUG000000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]	-	3.879561758	9.37E-09	1.69E-07
ENSMMUG000000051429		-	-3.85177958	8.52E-05	0.000633679
ENSMMUG000000024448		-	3.829181412	0.006434425	0.024737415
ENSMMUG000000057228	SRY-box transcription factor 15 [Source:NCBI gene;Acc:106993880]	-	3.813359258	0.006963892	0.026337994
ENSMMUG00000007504	myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]	-	3.802364816	0.000309008	0.001911026
ENSMMUG000000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	-	-3.77774754	2.32E-20	2.66E-18
ENSMMUG000000060101		-	3.762550367	0.002302887	0.01047937
ENSMMUG000000050534		-	3.749091788	0.013680991	0.045520589
ENSMMUG000000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	-	3.746666759	5.17E-16	3.03E-14
ENSMMUG000000063268		-	3.733528662	5.82E-06	5.89E-05
ENSMMUG00000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	-	3.725649583	0.000223483	0.001447226
ENSMMUG000000025616		-	3.725340819	0.009545989	0.034048099
ENSMMUG000000023488	lysine acetyltransferase 6B [Source:VGNC Symbol;Acc:VGNC:73846]	-	3.707359403	0.012665623	0.042767356
ENSMMUG000000020993	cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]	-	3.706084786	4.16E-07	5.51E-06
ENSMMUG000000055229		-	3.693010092	3.41E-13	1.32E-11
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	-	3.677893823	2.28E-12	7.64E-11
ENSMMUG000000054821		-	3.636304265	0.000973091	0.005117786
ENSMMUG000000049366	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.635894661	0.014923171	0.048899147
ENSMMUG000000057859		-	3.622770556	3.99E-05	0.000327393
ENSMMUG000000039033	nucleolar protein with MIF4G domain 1 [Source:VGNC Symbol;Acc:VGNC:81729]	-	3.621972078	0.012758249	0.043010823
ENSMMUG00000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	-	3.610282685	0.000149679	0.001022627
ENSMMUG000000020731	terminal nucleotidyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:79637]	-	3.609949057	0.001942347	0.009086195
ENSMMUG000000017008	GTPase, IMAP family member 2 [Source:VGNC Symbol;Acc:VGNC:72980]	-	3.604679013	0.005294373	0.02114137
ENSMMUG000000038587	prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]	-	3.579318984	0.003521472	0.015026084

ENSMMUG0000006446	transmembrane protein 177 [Source:VGNC Symbol;Acc:VGNC:79686]	-3.5780047	0.010322876	0.036313242
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	3.565218385	1.09E-07	1.62E-06
ENSMMUG00000060541		3.551630357	0.004027494	0.016860329
ENSMMUG00000063345		3.53254865	1.19E-05	0.000112154
ENSMMUG00000044537	DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]	3.532527919	0.0001874	0.001251809
ENSMMUG00000055161		3.496789374	0.001250726	0.006279689
ENSMMUG00000001219	mitochondrial ribosomal protein L4 [Source:VGNC Symbol;Acc:VGNC:74750]	3.442972371	0.000749018	0.00409597
ENSMMUG00000060346		3.436654547	7.97E-07	9.89E-06
ENSMMUG00000065232		3.416994653	0.006817503	0.025950427
ENSMMUG00000014213	calcium voltage-gated channel subunit alpha1 H [Source:VGNC Symbol;Acc:VGNC:70505]	3.407085013	0.000530023	0.003048439
ENSMMUG00000051155	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	3.405638146	0.0032915	0.014200009
ENSMMUG00000007110	serine and arginine rich splicing factor 4 [Source:NCBI gene;Acc:717401]	3.386466109	0.008962859	0.032381687
ENSMMUG00000011575	coiled-coil domain containing 167 [Source:VGNC Symbol;Acc:VGNC:70833]	3.375893699	0.000422612	0.002493675
ENSMMUG00000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	3.367082844	0.000182978	0.001225607
ENSMMUG00000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	3.362250678	1.09E-08	1.94E-07
ENSMMUG00000015544	PWP1 homolog, endonuclein [Source:NCBI gene;Acc:705262]	3.360778159	0.005329597	0.021233736
ENSMMUG00000001172	spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]	3.349693381	8.33E-06	8.14E-05
ENSMMUG00000017628	pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]	3.333479061	0.001547129	0.00749833
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	3.321011008	1.11E-07	1.64E-06
ENSMMUG00000041043	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.319664363	0.014374748	0.047418149
ENSMMUG00000013799	ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]	3.295260025	0.000252254	0.001597638
ENSMMUG00000024598	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.294990213	0.003275975	0.01414296
ENSMMUG00000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	-3.27965885	9.81E-15	4.82E-13
ENSMMUG00000020926	syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]	3.277396796	0.001658506	0.007941058
ENSMMUG00000059019		3.267017732	4.01E-13	1.52E-11
ENSMMUG00000063884		3.263881901	0.010129654	0.035766614
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	3.263508631	1.50E-12	5.19E-11
ENSMMUG00000057951	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-3.25483612	0.007094553	0.026715427
ENSMMUG00000009694	solute carrier family 9 member A9 [Source:VGNC Symbol;Acc:VGNC:77747]	3.239542964	0.003350962	0.014411012

ENSMMUG00000052287		-	3.238331033	0.000642939	0.003595533
ENSMMUG00000019714	vav guanine nucleotide exchange factor 3 [Source:VGNC Symbol;Acc:VGNC:78759]	-	3.235527282	0.004976967	0.02006294
ENSMMUG00000061973		-	3.217970509	9.87E-22	1.43E-19
ENSMMUG00000012480	REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]	-	-3.21061627	2.99E-05	0.000254492
ENSMMUG00000057895		-	3.192222271	0.012292285	0.041724518
ENSMMUG00000059128		-	3.190822427	0.000396822	0.002359622
ENSMMUG00000021917	leucine rich repeat containing 7 [Source:NCBI gene;Acc:702347]	-	3.178954367	0.009458155	0.033793657
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	-	3.175757107	6.08E-15	3.09E-13
ENSMMUG00000051088		-	3.162435958	1.98E-05	0.000176355
ENSMMUG00000011810	FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]	-	-3.14554201	1.11E-13	4.53E-12
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	-	3.135406825	4.57E-13	1.71E-11
ENSMMUG00000022676	ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]	-	3.128031386	0.010060091	0.035541414
ENSMMUG00000013008	cleavage stimulation factor subunit 2 [Source:VGNC Symbol;Acc:VGNC:71536]	-	3.128018081	1.20E-05	0.00011287
ENSMMUG00000015041	CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]	-	3.111654987	0.000359128	0.002164806
ENSMMUG00000017374	G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]	-	3.108619409	0.00238318	0.010776918
ENSMMUG00000055759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	3.107060908	2.69E-09	5.31E-08
ENSMMUG00000021331	EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]	-	3.104576379	0.000270459	0.001696027
ENSMMUG00000002166	tousled like kinase 2 [Source:VGNC Symbol;Acc:VGNC:78368]	-	-3.10207953	0.010028756	0.035451091
ENSMMUG00000004566	zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]	-	3.093486823	0.004821211	0.01951828
ENSMMUG00000052786		-	3.081851247	0.000486816	0.002839798
ENSMMUG00000014955	nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]	-	3.077833419	2.00E-06	2.29E-05
ENSMMUG00000013501	CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]	-	3.076479894	0.000181286	0.001215595
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	-	3.072105913	6.84E-09	1.26E-07
ENSMMUG00000023462	immunoglobulin like domain containing receptor 2 [Source:VGNC Symbol;Acc:VGNC:73619]	-	3.055520898	0.002714083	0.012024828
ENSMMUG00000014535	solute carrier family 15 member 3 [Source:VGNC Symbol;Acc:VGNC:77504]	-	-3.0494438	0.002577653	0.011495622
ENSMMUG00000051271		-	3.048690781	3.05E-12	9.80E-11
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	-	3.041144734	5.78E-14	2.53E-12
ENSMMUG00000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]	-	3.032873764	2.90E-05	0.000247662
ENSMMUG00000004205	phospholipase B domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76122]	-	3.020474125	0.00102408	0.005324436
ENSMMUG00000046665	glutamyl-tRNA amidotransferase subunit C [Source:NCBI gene;Acc:702258]	-	3.019204548	0.000349062	0.002118676

ENSMMUG00000016871	alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]	-	3.013225758	0.000295899	0.001837743
ENSMMUG00000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	-	3.001668064	3.61E-05	0.0003
ENSMMUG00000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	-	-2.99771492	0.000570644	0.003247124
ENSMMUG000000052682		-	2.991695578	7.86E-06	7.72E-05
ENSMMUG00000026897	mml-mir-215 [Source:miRBase;Acc:MI0003025]	-	2.969873046	0.003792567	0.01603524
ENSMMUG00000061687		-	2.969220486	3.83E-06	4.06E-05
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	-	2.967968386	3.64E-19	3.34E-17
ENSMMUG00000017931	gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]	-	2.950932031	7.30E-07	9.17E-06
ENSMMUG00000052463	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.943727439	0.014000224	0.046345363
ENSMMUG00000057073		-	2.943584152	0.004249203	0.017595815
ENSMMUG00000027108	mml-mir-193b [Source:miRBase;Acc:MI0007656]	-	2.937596785	0.007784069	0.028922004
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	-	2.932050973	1.06E-14	5.19E-13
ENSMMUG00000055783		-	2.929845923	0.000648377	0.003622367
ENSMMUG00000015004	TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]	-	2.904573072	8.27E-05	0.000617833
ENSMMUG00000042416		-	2.900943857	0.009063359	0.032687133
ENSMMUG00000010049	NOP9 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75216]	-	2.895247446	0.01229988	0.041738772
ENSMMUG00000004386	sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]	-	2.881887549	0.001130076	0.005758606
ENSMMUG00000014809	heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]	-	2.878291132	0.011065433	0.038332931
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	-	2.872946588	2.40E-16	1.45E-14
ENSMMUG00000055272	putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]	-	2.871465479	3.80E-08	6.17E-07
ENSMMUG00000043682	mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]	-	2.858436647	0.002623619	0.011658979
ENSMMUG00000054116	T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]	-	2.847720177	3.31E-10	7.61E-09
ENSMMUG00000060527		-	2.847210451	1.43E-08	2.51E-07
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	-	2.832775843	0.000612066	0.003446132
ENSMMUG00000000496	zinc finger and BTB domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79047]	-	-2.83173363	0.014712194	0.048332728
ENSMMUG00000018165	syndecan binding protein 2 [Source:VGNC Symbol;Acc:VGNC:77017]	-	2.814805143	0.01188827	0.040566
ENSMMUG00000058603		-	2.812742918	0.001240093	0.006231389
ENSMMUG00000023119	lin-7 homolog C, crumbs cell polarity complex component [Source:VGNC Symbol;Acc:VGNC:74070]	-	2.811123956	0.008088149	0.029793486
ENSMMUG00000057494	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]	-	2.810722723	2.13E-08	3.62E-07

ENSMMUG00000023298	F-box protein 15 [Source:VGNC Symbol;Acc:VGNC:72504]	-	2.802767151	0.013864155	0.04598066
ENSMMUG00000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	-	2.790484086	0.000642989	0.003595533
ENSMMUG00000008705	ubiquitin specific peptidase 53 [Source:VGNC Symbol;Acc:VGNC:79793]	-	2.787063786	0.014272215	0.047193918
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]	-	2.781446638	0.001510235	0.007357233
ENSMMUG000000051768		-	2.777488509	1.25E-05	0.000116837
ENSMMUG00000022484	ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]	-	2.767497428	0.010963549	0.03803358
ENSMMUG000000056045		-	2.763385051	5.35E-05	0.000424605
ENSMMUG00000023791	SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]	-	2.762999243	0.00403032	0.016866417
ENSMMUG00000006937	small nuclear ribonucleoprotein D2 polypeptide [Source:NCBI gene;Acc:715183]	-	2.760677769	0.003463104	0.014825849
ENSMMUG00000011573	cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]	-	2.759525636	2.29E-10	5.47E-09
ENSMMUG000000060966		-	2.755550039	0.009670581	0.034430746
ENSMMUG00000006731	CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]	-	2.748660097	1.49E-09	3.09E-08
ENSMMUG000000051936		-	2.743350452	0.003556798	0.015147816
ENSMMUG000000065257		-	2.742613773	0.002120877	0.009788848
ENSMMUG000000055637		-	2.730951516	0.010427554	0.036576789
ENSMMUG00000006214	olfactory receptor family 11 subfamily L member 1 [Source:HGNC Symbol;Acc:HGNC:14998]	-	2.726164015	0.010529308	0.036870577
ENSMMUG00000018058	ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]	-	2.725130508	7.68E-11	1.94E-09
ENSMMUG00000013661	presenilin associated rhomboid like [Source:NCBI gene;Acc:704652]	-	2.719762254	0.006062029	0.023519063
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	-	2.708712763	3.09E-27	8.44E-25
ENSMMUG00000024966	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	2.703657532	0.01513813	0.049484776
ENSMMUG00000014173		-	2.696824374	1.04E-05	9.93E-05
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	-	2.687584902	1.11E-28	3.42E-26
ENSMMUG000000046785		-	2.684036769	0.005766287	0.022629645
ENSMMUG00000000972	tyrosine kinase non receptor 2 [Source:VGNC Symbol;Acc:VGNC:79192]	-	2.677991614	2.06E-06	2.35E-05
ENSMMUG000000061688	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.677121695	0.00837354	0.030667216
ENSMMUG000000033102	mml-mir-181b-2 [Source:miRBase;Acc:MI0007646]	-	2.673945371	0.013546534	0.045156609
ENSMMUG000000058933		-	2.671960201	0.00115267	0.00585917
ENSMMUG000000055585		-	2.664917818	7.75E-07	9.66E-06

ENSMMUG00000061590		-	2.664122793	0.005255646	0.021014037
ENSMMUG00000055477		-2.6640387	-	3.60E-12	1.14E-10
ENSMMUG00000012124	ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]	-	2.659474789	1.29E-07	1.89E-06
ENSMMUG00000060062		-	2.654459915	0.009891289	0.035093569
ENSMMUG00000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]	-	2.649579228	5.38E-05	0.000426789
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]	-2.6495119	-	8.66E-09	1.57E-07
ENSMMUG00000052791		-2.64576416	-	1.67E-11	4.62E-10
ENSMMUG00000012120	zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]	-	2.641874523	9.80E-10	2.10E-08
ENSMMUG00000060893		-	2.640852331	0.000587265	0.003324772
ENSMMUG00000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]	-	2.639720864	1.68E-14	7.84E-13
ENSMMUG00000039441	mab-21 like 2 [Source:NCBI gene;Acc:693948]	-2.63944429	-	0.004162537	0.017301907
ENSMMUG00000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	-	2.632480646	1.49E-06	1.75E-05
ENSMMUG00000021137	thioredoxin related transmembrane protein 4 [Source:VGNC Symbol;Acc:VGNC:79484]	-	2.631442179	0.002098185	0.009713293
ENSMMUG00000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	-	2.630024389	2.71E-07	3.74E-06
ENSMMUG00000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]	-	2.627475982	8.90E-07	1.10E-05
ENSMMUG00000001800	cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]	-	2.625434774	1.98E-06	2.26E-05
ENSMMUG00000012151	glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]	-2.62232418	-	0.000626238	0.003511444
ENSMMUG00000000229	transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]	-	2.614362934	0.000451687	0.002647439
ENSMMUG00000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	-	2.613772875	0.014810747	0.048595538
ENSMMUG00000031736		-	2.613586756	0.005966137	0.023239083
ENSMMUG00000015702	divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]	-	2.605906184	0.008044331	0.029664827
ENSMMUG00000004178	NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]	-	2.605047418	6.96E-08	1.07E-06
ENSMMUG00000062704	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-2.60338978	-	0.01523131	0.049732207
ENSMMUG00000021393	calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]	-	2.599592493	3.94E-09	7.56E-08
ENSMMUG00000064721		-	2.599575269	0.007231625	0.027140122
ENSMMUG00000063586	zinc finger protein 536 [Source:NCBI gene;Acc:713142]	-	2.592930963	0.000195328	0.001294221
ENSMMUG00000059101		-	2.589105302	0.000801718	0.004350514
ENSMMUG00000044628		-	2.589072827	2.80E-05	0.00024014
ENSMMUG00000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	-	2.585283674	6.11E-15	3.09E-13
ENSMMUG00000053565		-	2.579090827	0.00441146	0.01812099
ENSMMUG00000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	-	2.578048257	7.10E-16	4.08E-14

ENSMMUG0000000227	myosin heavy chain 7B [Source:VGNC Symbol;Acc:VGNC:74965]	-	2.576300844	0.004914431	0.01983687
ENSMMUG00000008525	minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]	-	2.571798228	0.002084553	0.009664745
ENSMMUG00000058580	tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]	-	2.570170607	1.93E-10	4.63E-09
ENSMMUG00000018283	dihydrofolate reductase [Source:NCBI gene;Acc:711268]	-	2.568097775	0.010362561	0.036379708
ENSMMUG00000021507	chromosome 2 C3orf38 homolog [Source:VGNC Symbol;Acc:VGNC:70654]	-	2.563976934	0.002067246	0.009595363
ENSMMUG00000018972	RNA polymerase III subunit G [Source:VGNC Symbol;Acc:VGNC:84480]	-	2.562482597	1.92E-05	0.000171812
ENSMMUG00000017680	chibby family member 1, beta catenin antagonist [Source:NCBI gene;Acc:100429409]	-	2.560996781	0.005698428	0.022426093
ENSMMUG00000001896	G protein subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73095]	-	2.559764055	0.008210259	0.030166946
ENSMMUG00000012122	protein phosphatase 1 regulatory inhibitor subunit 11 [Source:VGNC Symbol;Acc:VGNC:82209]	-	2.553077676	0.001045377	0.005409106
ENSMMUG00000015002	chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]	-	2.548291287	5.39E-05	0.000427079
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]	-	2.544462891	9.17E-14	3.83E-12
ENSMMUG000000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	-	2.542242288	2.92E-12	9.48E-11
ENSMMUG00000013943	glycerophosphodiester phosphodiesterase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72787]	-	2.536805511	0.000245469	0.001561625
ENSMMUG00000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	-	2.534207145	0.000235029	0.001510059
ENSMMUG00000018565	ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]	-	2.528718522	0.005118211	0.020591796
ENSMMUG000000061815		-	2.519324582	8.46E-13	3.08E-11
ENSMMUG00000013848	fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]	-	2.517020768	1.31E-06	1.56E-05
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]	-	2.514726925	6.42E-10	1.43E-08
ENSMMUG000000052815		-	2.513663974	0.003548888	0.015124612
ENSMMUG00000014685	pyruvate dehydrogenase kinase 2 [Source:VGNC Symbol;Acc:VGNC:75933]	-	2.510801352	3.18E-05	0.000269011
ENSMMUG00000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	-	2.508355871	1.09E-09	2.32E-08
ENSMMUG000000059518		-	2.506863926	0.010701893	0.03732604
ENSMMUG000000056602		-	2.504385679	0.00154435	0.007496686
ENSMMUG00000003261	BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]	-	2.501087546	4.20E-15	2.22E-13
ENSMMUG000000055809		-	2.493355961	8.92E-05	0.000656598
ENSMMUG00000000807	tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [Source:VGNC Symbol;Acc:VGNC:79500]	-	2.488807012	0.000739867	0.004051186
ENSMMUG000000062264		-	2.488399761	0.000307524	0.00190321
ENSMMUG000000039515	kinesin family member 13B [Source:NCBI gene;Acc:100429368]	-	2.475063915	0.002497502	0.01119096

ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]	2.472091713	2.35E-10	5.55E-09
ENSMMUG000000037625		2.465088128	2.49E-06	2.77E-05
ENSMMUG000000022656	perilipin 4 [Source:NCBI gene;Acc:693610]	2.463937327	0.005971617	0.023249015
ENSMMUG000000017173	heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]	2.462459079	0.000517282	0.002986336
ENSMMUG000000046464	coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]	2.462309627	6.56E-07	8.31E-06
ENSMMUG000000004287	death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]	2.461408105	3.61E-06	3.87E-05
ENSMMUG000000052830		2.457541864	8.85E-08	1.34E-06
ENSMMUG000000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	2.456905539	4.21E-06	4.44E-05
ENSMMUG000000045966	granzyme M [Source:NCBI gene;Acc:715031]	2.456444829	0.000357813	0.002159608
ENSMMUG000000057763		2.455992795	0.000130438	0.000905771
ENSMMUG000000016357	polycystin 2 like 2, transient receptor potential cation channel [Source:VGNC Symbol;Acc:VGNC:76009]	2.455625169	0.015258675	0.049759717
ENSMMUG000000008447	fibulin 5 [Source:VGNC Symbol;Acc:VGNC:72622]	2.453925842	2.18E-05	0.000192398
ENSMMUG000000005923	failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]	2.450208923	9.20E-07	1.13E-05
ENSMMUG000000053384		2.442631886	8.45E-19	7.11E-17
ENSMMUG000000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]	2.440655162	4.77E-11	1.24E-09
ENSMMUG000000059241		2.438299414	0.000541295	0.003108906
ENSMMUG000000012129	tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]	2.435648319	3.04E-12	9.79E-11
ENSMMUG000000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	2.434997867	7.69E-11	1.94E-09
ENSMMUG000000059575		2.429064086	1.37E-15	7.61E-14
ENSMMUG000000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	2.427075347	9.74E-13	3.50E-11
ENSMMUG000000059922	family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]	2.416997277	0.001392534	0.006868235
ENSMMUG000000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	2.415056716	1.85E-06	2.12E-05
ENSMMUG000000010508	carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]	2.414944742	0.008807195	0.031941351
ENSMMUG000000012474	ring finger protein 31 [Source:NCBI gene;Acc:715239]	2.412010628	0.003204227	0.013867306
ENSMMUG000000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	2.409241505	3.70E-18	2.92E-16
ENSMMUG000000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	2.395419105	2.43E-07	3.37E-06
ENSMMUG000000050544		2.393198838	2.62E-06	2.90E-05
ENSMMUG000000038661		2.391301844	2.60E-10	6.10E-09

ENSMMUG0000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	-	2.390497523	6.76E-16	3.90E-14
ENSMMUG00000011469	germ cell nuclear acidic peptidase [Source:VGNC Symbol;Acc:VGNC:72724]	-	2.389729834	0.014562999	0.04792338
ENSMMUG00000058586		-	2.387669676	0.003157262	0.013683325
ENSMMUG00000054312		-	2.387223524	0.009443156	0.033769516
ENSMMUG00000022562	interleukin 1 receptor accessory protein [Source:VGNC Symbol;Acc:VGNC:73718]	-	2.384152931	0.007694298	0.028623068
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	-	2.382667663	6.82E-15	3.38E-13
ENSMMUG00000021280	leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]	-	2.381018068	1.79E-07	2.56E-06
ENSMMUG00000049396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.369164125	0.006966148	0.026337994
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	-	2.366004979	0.005620733	0.022196763
ENSMMUG00000014027	nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]	-	2.362398189	2.17E-06	2.45E-05
ENSMMUG00000014997	spalt like transcription factor 2 [Source:NCBI gene;Acc:708367]	-	2.359423778	6.54E-09	1.21E-07
ENSMMUG00000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]	-	2.358393407	4.41E-15	2.32E-13
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	-	2.358325023	8.01E-07	9.93E-06
ENSMMUG00000051552		-	2.358170831	1.02E-06	1.24E-05
ENSMMUG00000015550	PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]	-	2.355492464	1.26E-05	0.000117784
ENSMMUG00000012310	CASP8 and FADD like apoptosis regulator [Source:VGNC Symbol;Acc:VGNC:71019]	-	-2.35481292	0.010302895	0.036272208
ENSMMUG00000006768	coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]	-	2.354505044	0.000407646	0.002414694
ENSMMUG00000000667	zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]	-	2.346390956	1.78E-06	2.05E-05
ENSMMUG00000032892	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	2.346265524	6.08E-05	0.000473866
ENSMMUG00000058233	C-C motif chemokine 3-like [Source:NCBI gene;Acc:100426537]	-	2.344620524	0.005967175	0.023239083
ENSMMUG00000006775	proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]	-	2.341308125	2.90E-17	2.06E-15
ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	-	-2.34125947	5.79E-08	9.09E-07
ENSMMUG000000061594		-	2.331737772	0.001065979	0.005495782
ENSMMUG00000023083	A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]	-	2.330632818	4.30E-06	4.52E-05
ENSMMUG00000055530	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.326339697	0.005736365	0.022540172
ENSMMUG00000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-2.32214663	1.31E-09	2.75E-08
ENSMMUG00000013907	ribosomal protein S27a [Source:NCBI gene;Acc:718909]	-	2.320372884	0.001017568	0.005298876
ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]	-	2.318773094	1.87E-12	6.37E-11
ENSMMUG00000011702	tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]	-	2.317721159	1.79E-05	0.000161674

ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	-	2.317181206	1.65E-15	9.05E-14
ENSMMUG00000026103	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	2.315932402	0.005248562	0.020996908
ENSMMUG00000007751	solute carrier family 22 member 18 [Source:NCBI gene;Acc:721230]	-	2.310316692	0.002453154	0.011032462
ENSMMUG00000005067	elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]	-	2.308627282	9.04E-07	1.11E-05
ENSMMUG00000023012	vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]	-	2.307310389	0.000356266	0.002153895
ENSMMUG00000020202	melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]	-	2.307208856	6.58E-06	6.59E-05
ENSMMUG00000006702	bone morphogenetic protein receptor type 1B [Source:VGNC Symbol;Acc:VGNC:70267]	-	-2.30631745	0.000891232	0.004752334
ENSMMUG00000008228	unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]	-	2.300980984	0.001185939	0.006008398
ENSMMUG00000016286	protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]	-	-2.29405422	5.40E-11	1.40E-09
ENSMMUG00000053235		-	2.292911411	0.007491468	0.027978618
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	-	2.291074515	5.62E-07	7.23E-06
ENSMMUG00000009520	gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]	-	2.287268751	2.05E-06	2.34E-05
ENSMMUG00000058332	testis expressed 46 [Source:NCBI gene;Acc:709002]	-	-2.28514956	0.001732744	0.008239432
ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]	-	2.279500132	0.000798226	0.004335395
ENSMMUG00000022602	methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]	-	2.277569373	2.47E-07	3.43E-06
ENSMMUG00000064249		-	2.276367844	0.0008741	0.004675179
ENSMMUG00000051190	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.271684751	0.004704729	0.019115975
ENSMMUG00000055889		-	2.271155216	0.001615629	0.00778123
ENSMMUG00000018332	family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]	-	2.269220095	7.19E-09	1.32E-07
ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	-	2.267165156	3.19E-06	3.46E-05
ENSMMUG00000017246	lipoygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	-	2.266417552	3.36E-14	1.52E-12
ENSMMUG00000022927	RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]	-	2.265540631	2.88E-11	7.69E-10
ENSMMUG00000009958	ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]	-	2.258597123	0.00027552	0.00172249
ENSMMUG00000062638	methyltransferase like 3 [Source:NCBI gene;Acc:706852]	-	2.257429626	0.007976677	0.029486457
ENSMMUG00000007968	hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]	-	2.255548863	5.85E-08	9.17E-07
ENSMMUG00000003394	cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]	-	2.253512153	2.31E-18	1.84E-16
ENSMMUG00000049788		-	2.250791036	0.001221119	0.006153661
ENSMMUG00000049997		-	-2.24803294	3.25E-10	7.50E-09
ENSMMUG00000023679	tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]	-	2.246828488	1.10E-08	1.97E-07
ENSMMUG00000042668	cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]	-	2.244448135	1.39E-06	1.65E-05

ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	-	-	-
		2.241369249	3.48E-07	4.70E-06
ENSMMUG00000002649	unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]	-	-	-
		2.239179569	0.008180865	0.030087078
ENSMMUG00000002514	methyltransferase like 25 [Source:VGNC Symbol;Acc:VGNC:74591]	-	-	-
		-2.23892172	0.002457329	0.011046932
ENSMMUG00000018493	FH2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72598]	-	-	-
		2.236752365	5.09E-07	6.60E-06
ENSMMUG00000022601	cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]	-	-	-
		2.234670148	1.05E-11	3.04E-10
ENSMMUG00000013503	mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]	-	-	-
		2.234359314	0.000497418	0.002886886
ENSMMUG00000056303		-	-	-
		2.226901876	0.000648134	0.003622367
ENSMMUG00000022726	dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]	-	-	-
		2.226253362	0.001425949	0.007010535
ENSMMUG00000000669	gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]	-	-	-
		2.225055577	0.011956234	0.040741356
ENSMMUG00000011646	TATA-box binding protein associated factor, RNA polymerase I subunit D [Source:NCBI gene;Acc:696602]	-	-	-
		2.224550522	0.015234054	0.049732207
ENSMMUG00000054719		-	-	-
		2.223836107	2.07E-07	2.94E-06
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]	-	-	-
		2.223729922	6.60E-15	3.30E-13
ENSMMUG00000060455		-	-	-
		2.223296436	0.009279587	0.033291127
ENSMMUG00000019831	neurobeachin [Source:NCBI gene;Acc:714386]	-	-	-
		2.223057661	7.29E-05	0.000554575
ENSMMUG00000062818	regenerating islet-derived protein 3-alpha [Source:NCBI gene;Acc:716890]	-	-	-
		2.222733481	0.002100796	0.009718059
ENSMMUG00000012481	importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]	-	-	-
		2.222549723	2.48E-05	0.000215092
ENSMMUG00000006217	general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]	-	-	-
		2.219649235	0.001293793	0.006451119
ENSMMUG00000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	-	-	-
		2.213475171	0.008538206	0.031140383
ENSMMUG00000017355	remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]	-	-	-
		2.213237746	3.71E-07	4.99E-06
ENSMMUG00000001640	SIX homeobox 4 [Source:NCBI gene;Acc:703798]	-	-	-
		2.211788368	7.76E-07	9.66E-06
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]	-	-	-
		2.208819075	4.17E-05	0.000340461
ENSMMUG00000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]	-	-	-
		-2.20859884	1.16E-12	4.07E-11
ENSMMUG00000052327		-	-	-
		2.206820154	0.000924629	0.004904883
ENSMMUG00000012473	proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]	-	-	-
		2.205737828	0.006727572	0.025703634
ENSMMUG00000049749		-	-	-
		2.201249572	1.23E-16	7.98E-15
ENSMMUG00000051670		-	-	-
		2.199384363	4.48E-06	4.67E-05
ENSMMUG00000022724		-	-	-
		2.196787306	0.000325122	0.001994048
ENSMMUG00000064975	zinc finger protein 221 [Source:NCBI gene;Acc:100423743]	-	-	-
		2.195155148	0.001306869	0.006511036
ENSMMUG00000013655	dynamamin 1 like [Source:VGNC Symbol;Acc:VGNC:71956]	-	-	-
		2.194522634	0.007192394	0.027009383

ENSMMUG00000061036	histone cluster 2, H2ab [Source:NCBI gene;Acc:705170]	2.193116916	0.012148532	0.041327872
ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]	2.188307829	1.69E-05	0.000153836
ENSMMUG00000000117	HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]	2.181223788	5.67E-06	5.76E-05
ENSMMUG000000052537		-2.18047806	0.000665511	0.003701266
ENSMMUG00000029197	YY1 transcription factor [Source:NCBI gene;Acc:717370]	2.171729386	1.82E-08	3.13E-07
ENSMMUG00000005751	adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]	2.170361468	0.008202526	0.030157716
ENSMMUG00000060579		-2.16828851	0.00871911	0.031687337
ENSMMUG00000013851	lipoic acid synthetase [Source:VGNC Symbol;Acc:VGNC:74057]	2.167632052	0.009625612	0.034282353
ENSMMUG00000064980		-2.16497668	0.007101854	0.026734727
ENSMMUG00000060536		2.164495381	0.002311644	0.010507549
ENSMMUG00000010703	KIAA0895 [Source:VGNC Symbol;Acc:VGNC:73884]	-2.15135336	0.003442248	0.014764397
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	2.150142762	3.75E-07	5.03E-06
ENSMMUG00000050630		2.149633433	0.005249654	0.020996908
ENSMMUG00000022202	basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]	2.149069692	7.82E-12	2.32E-10
ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	2.147950803	2.84E-16	1.70E-14
ENSMMUG00000009831	TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]	2.147838651	1.60E-07	2.30E-06
ENSMMUG00000044729	transcription factor AP-4 [Source:NCBI gene;Acc:707513]	2.147732808	0.000254734	0.001608085
ENSMMUG00000052460		2.144619994	0.000293404	0.00182594
ENSMMUG00000064202		2.141108274	0.000215667	0.001407737
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]	2.140710635	0.003533994	0.015066361
ENSMMUG00000007620	transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]	2.138602235	2.61E-07	3.61E-06
ENSMMUG00000061118		2.138557384	0.013405854	0.044786993
ENSMMUG00000011214	solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]	2.136518093	5.87E-06	5.94E-05
ENSMMUG00000032427	neuroligin 3 [Source:NCBI gene;Acc:574216]	2.136100471	4.63E-15	2.41E-13
ENSMMUG00000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	2.132825491	0.000357175	0.002158328
ENSMMUG00000012449	synaptotagmin like 2 [Source:VGNC Symbol;Acc:VGNC:78123]	-2.1309671	0.006795459	0.025922716
ENSMMUG00000018943	spermatogenesis associated 18 [Source:VGNC Symbol;Acc:VGNC:78013]	2.126652882	3.33E-05	0.000279832
ENSMMUG00000044958	adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]	2.124572362	5.85E-09	1.09E-07
ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	2.121728917	0.000133683	0.000925686
ENSMMUG00000062861		2.120376076	3.34E-06	3.60E-05

ENSMMUG00000021097	sushi domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78207]	-	2.118925692	0.000366653	0.002204891
ENSMMUG00000062793		-	2.116964609	1.31E-05	0.000122507
ENSMMUG00000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	-	2.116243897	0.00037385	0.002241458
ENSMMUG00000010543	PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]	-	2.113360423	0.006120447	0.023700823
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	-	2.109696486	5.46E-05	0.000432269
ENSMMUG00000029475	zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]	-	2.106935597	0.000354942	0.002148003
ENSMMUG00000019854	transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]	-	2.105227637	1.19E-05	0.000112027
ENSMMUG00000007313	histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]	-	2.101427111	8.54E-05	0.00063475
ENSMMUG000000037806	chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]	-	2.101096321	0.012367005	0.0419087
ENSMMUG00000012467	family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]	-	2.100503549	9.62E-05	0.000700821
ENSMMUG00000058450		-	2.098048059	0.005885168	0.022988424
ENSMMUG00000018939	leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]	-	2.094002694	5.44E-13	2.02E-11
ENSMMUG00000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]	-	2.093047615	1.42E-14	6.79E-13
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	-	2.092134812	5.91E-07	7.57E-06
ENSMMUG00000012167	solute carrier family 2 member 8 [Source:VGNC Symbol;Acc:VGNC:77470]	-	2.090368678	0.002681823	0.011891158
ENSMMUG00000061117		-	2.089352172	3.68E-06	3.92E-05
ENSMMUG00000059525		-	2.087520404	4.58E-07	6.00E-06
ENSMMUG00000041837	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-2.08400978	0.009840744	0.034947295
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	-	2.083889993	9.84E-05	0.000712832
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	-	2.082456075	3.36E-07	4.57E-06
ENSMMUG00000060524		-	2.082334712	0.005771973	0.022636669
ENSMMUG00000011515	striatin 3 [Source:VGNC Symbol;Acc:VGNC:78127]	-	2.080644879	0.001981633	0.009239853
ENSMMUG00000018444	dual specificity phosphatase 23 [Source:VGNC Symbol;Acc:VGNC:71880]	-	2.079812397	0.004407409	0.01811149
ENSMMUG00000051482		-	2.079341072	2.25E-05	0.000198115
ENSMMUG00000059938		-	2.079018724	0.000239892	0.001533691
ENSMMUG00000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	-	2.075974317	4.62E-08	7.40E-07
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	-	2.074066898	0.000562187	0.00320791
ENSMMUG00000061892		-	2.074017362	6.52E-11	1.67E-09
ENSMMUG00000038410		-	2.073991266	0.004188331	0.017386037

ENSMMUG00000055560		-	2.073199885	0.008927032	0.032299719
ENSMMUG00000052642	protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]	-	2.072610254	0.000337537	0.002057873
ENSMMUG00000016845	zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]	-	2.071821943	0.005811369	0.022762121
ENSMMUG00000011183	olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]	-	2.068477699	0.002109862	0.009752654
ENSMMUG00000059145		-	-2.06620604	0.003795325	0.016041382
ENSMMUG00000007255	microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]	-	-2.06567819	0.00213416	0.00983088
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	-	-2.06109642	0.000436284	0.002565727
ENSMMUG00000051286		-	2.059567537	8.76E-10	1.90E-08
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	-	2.059559051	2.20E-14	1.01E-12
ENSMMUG00000056165		-	2.059085868	0.004052603	0.016930248
ENSMMUG00000018346	coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]	-	2.058049656	0.001741227	0.008269483
ENSMMUG00000002182	phosphatidylserine decarboxylase [Source:VGNC Symbol;Acc:VGNC:76005]	-	2.057516808	0.00258836	0.011530821
ENSMMUG00000013029	surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]	-	2.053253604	0.000362505	0.002183025
ENSMMUG00000005366	alpha-L-fucosidase 2 [Source:VGNC Symbol;Acc:VGNC:72827]	-	2.050238027	7.93E-06	7.78E-05
ENSMMUG00000022625	periaxin [Source:VGNC Symbol;Acc:VGNC:76248]	-	2.046959239	0.000170323	0.001145257
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	-	-2.0468479	6.13E-09	1.14E-07
ENSMMUG00000021377	SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]	-	2.045515697	1.59E-07	2.30E-06
ENSMMUG00000051112	p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]	-	2.042053559	0.001195163	0.006047653
ENSMMUG00000065273		-	2.040874378	0.013698154	0.045531306
ENSMMUG00000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	-	2.032870581	3.75E-07	5.03E-06
ENSMMUG00000006682	chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]	-	2.032482043	0.002449867	0.011021713
ENSMMUG00000063463		-	-2.03209981	3.34E-05	0.000280618
ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	-	2.027988734	4.43E-05	0.000357911
ENSMMUG00000040046	lithostathine-1-alpha [Source:NCBI gene;Acc:711810]	-	2.025390938	0.011630696	0.039830839
ENSMMUG00000032244	DnaJ heat shock protein family (Hsp40) member C16 [Source:NCBI gene;Acc:700894]	-	2.024138308	0.00629438	0.024286482
ENSMMUG00000000663	guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]	-	-2.01852376	2.98E-07	4.09E-06
ENSMMUG00000049437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.018316911	8.02E-05	0.000600106
ENSMMUG00000021370	kringle containing transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:74066]	-	-2.01810213	0.000187666	0.001252909
ENSMMUG00000011137	arylacetamide deacetylase like 4 [Source:VGNC Symbol;Acc:VGNC:81338]	-	2.016938138	0.006843819	0.026010322
ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]	-	2.011425316	3.72E-11	9.82E-10
ENSMMUG00000051296	paired like homeobox 2B [Source:NCBI gene;Acc:701940]	-	2.010428379	0.000713241	0.003942681

ENSMMUG0000008009	family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]	-	2.009344755	6.88E-06	6.87E-05
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	-	2.007940473	4.06E-12	1.26E-10
ENSMMUG00000015619	ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]	-	2.003528937	5.31E-14	2.34E-12
ENSMMUG00000031965	aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]	-	1.999331114	0.009785238	0.034780325
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	-	1.998739036	1.83E-10	4.39E-09
ENSMMUG00000004559	potassium voltage-gated channel subfamily D member 1 [Source:VGNC Symbol;Acc:VGNC:73975]	-	1.996169651	0.013291458	0.044477351
ENSMMUG00000019371	major histocompatibility complex, class II, DP alpha [Source:NCBI gene;Acc:717992]	-	1.995187531	0.006965189	0.026337994
ENSMMUG00000003973	autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]	-	1.994871006	0.00013141	0.000911489
ENSMMUG00000063655	sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]	-	1.990618839	2.97E-10	6.91E-09
ENSMMUG00000053577		-	1.989747986	1.72E-05	0.000156159
ENSMMUG00000001940	NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]	-	1.987729253	1.60E-06	1.86E-05
ENSMMUG00000016052	seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]	-	1.984293155	7.33E-06	7.26E-05
ENSMMUG00000019868	NKD inhibitor of WNT signaling pathway 1 [Source:VGNC Symbol;Acc:VGNC:75198]	-	1.983138756	0.003189851	0.013819688
ENSMMUG00000049859		-	1.979827796	1.35E-10	3.31E-09
ENSMMUG00000052518	SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]	-	1.976591431	0.011286534	0.038901512
ENSMMUG00000041301	TNF superfamily member 8 [Source:NCBI gene;Acc:702944]	-	1.973992549	5.62E-07	7.23E-06
ENSMMUG00000040771		-	1.973868925	0.004049616	0.016924117
ENSMMUG00000061096	tubulin polymerization promoting protein [Source:NCBI gene;Acc:708834]	-	1.972471572	0.005587538	0.022083031
ENSMMUG00000006155	zinc finger C3HC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79827]	-	1.969853946	0.005335147	0.02124896
ENSMMUG00000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	-	1.965197364	4.52E-08	7.24E-07
ENSMMUG00000010320	ATPase H+ transporting V1 subunit C2 [Source:VGNC Symbol;Acc:VGNC:70091]	-	1.957280498	0.010673387	0.037258337
ENSMMUG00000009984	prodynorphin [Source:VGNC Symbol;Acc:VGNC:75937]	-	1.951828889	0.000113015	0.00080293
ENSMMUG00000004709	proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]	-	1.950878127	0.007999343	0.029534373
ENSMMUG00000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	-	1.949707568	2.22E-06	2.50E-05
ENSMMUG00000064749		-	1.947707008	0.008244237	0.030256768
ENSMMUG00000012290	GLIPR1 like 2 [Source:VGNC Symbol;Acc:VGNC:81413]	-	1.944796493	0.001016337	0.005296368
ENSMMUG00000050994		-	1.938818829	0.00895548	0.032381687
ENSMMUG00000020540	NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]	-	1.938146786	7.07E-06	7.04E-05

ENSMMUG00000018461	notch receptor 4 [Source:VGNC Symbol;Acc:VGNC:75372]	-	1.937989288	7.41E-05	0.00056297
ENSMMUG00000014155	CLK4 associating serine/arginine rich protein [Source:VGNC Symbol;Acc:VGNC:71198]	-	1.937914468	0.013375515	0.044709941
ENSMMUG00000022124	stonin 2 [Source:VGNC Symbol;Acc:VGNC:78249]	-	1.937823185	0.002288883	0.010419502
ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]	-	1.937264446	1.07E-12	3.78E-11
ENSMMUG00000009493	family with sequence similarity 120A [Source:NCBI gene;Acc:717459]	-	1.936796069	1.69E-05	0.000153525
ENSMMUG00000018031	solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]	-	1.936011507	6.62E-05	0.00051019
ENSMMUG00000060765		-	1.935107435	0.004294104	0.017728866
ENSMMUG00000008136	G2 and S-phase expressed 1 [Source:VGNC Symbol;Acc:VGNC:73162]	-	1.934567937	0.002089601	0.009680848
ENSMMUG00000010127	chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]	-	1.934384905	0.000348798	0.002118119
ENSMMUG00000000364	translocase of outer mitochondrial membrane 22 [Source:NCBI gene;Acc:701286]	-	1.933597176	0.008476105	0.030981252
ENSMMUG00000064131		-	1.931793382	3.88E-05	0.000318889
ENSMMUG00000018745	chromosome 6 C5orf49 homolog [Source:VGNC Symbol;Acc:VGNC:70646]	-	1.929402269	0.015128826	0.049467518
ENSMMUG00000062866		-	1.929378112	0.000394391	0.002346305
ENSMMUG00000019992	growth factor receptor bound protein 10 [Source:VGNC Symbol;Acc:VGNC:73157]	-	1.929108753	0.00854515	0.031147225
ENSMMUG00000054713		-	1.929078541	0.001478723	0.007232383
ENSMMUG00000058133		-	1.928159961	0.007447881	0.027841213
ENSMMUG00000004387	ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]	-	1.922956992	3.10E-06	3.37E-05
ENSMMUG00000061268	PLAG1 zinc finger [Source:NCBI gene;Acc:696149]	-	1.921452205	9.76E-05	0.000709732
ENSMMUG00000004208	serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]	-	1.917750894	0.007625115	0.028391486
ENSMMUG00000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	-	1.917622109	2.42E-08	4.09E-07
ENSMMUG00000050503		-	1.911441964	0.007084012	0.026683909
ENSMMUG00000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	-	-1.90794833	8.05E-14	3.39E-12
ENSMMUG00000054935		-	1.905453347	0.00967288	0.034430746
ENSMMUG00000005312	glutaredoxin [Source:VGNC Symbol;Acc:VGNC:84383]	-	1.905411777	0.013114896	0.044030372
ENSMMUG00000054078	histone H3 [Source:NCBI gene;Acc:114669830]	-	1.902590876	0.0003396	0.002067374
ENSMMUG00000008942	carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]	-	1.901972806	0.001733559	0.008239432
ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]	-	1.900384116	0.002458628	0.011046932
ENSMMUG00000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	-	1.899536584	9.11E-06	8.84E-05
ENSMMUG00000010879	NAD kinase [Source:VGNC Symbol;Acc:VGNC:75047]	-	1.898204104	0.000527105	0.003034493

ENSMMUG00000065108		-	1.896855807	0.0103562	0.036368015
ENSMMUG00000057986	transmembrane protein 17 [Source:NCBI gene;Acc:694384]	-	1.896461307	0.001690104	0.008082907
ENSMMUG00000020348	BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]	-	1.893713314	0.005929139	0.023142281
ENSMMUG00000046218	X antigen family member 5 [Source:NCBI gene;Acc:114669729]	-	1.893520665	0.00474808	0.01927198
ENSMMUG00000014810	short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]	-	1.892070748	3.75E-14	1.68E-12
ENSMMUG00000062882		-	-1.88834694	0.003890636	0.016393491
ENSMMUG00000023443	SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]	-	1.886517535	5.44E-09	1.02E-07
ENSMMUG00000000434	cyclin dependent kinase 2 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:70944]	-	1.886293378	0.001193076	0.006039577
ENSMMUG00000018746	FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]	-	1.885006028	3.37E-08	5.52E-07
ENSMMUG00000031821	chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]	-	1.884538878	0.007316248	0.027415856
ENSMMUG00000013937	RAB41, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81544]	-	1.884360994	0.007114576	0.026774418
ENSMMUG00000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	-	1.883754692	1.96E-05	0.000174653
ENSMMUG00000018216	keratin, type II cuticular Hb5 [Source:NCBI gene;Acc:698320]	-	1.880799694	0.00697553	0.026348381
ENSMMUG00000003631	cytoskeleton associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71368]	-	1.880221355	0.003690047	0.015661038
ENSMMUG00000002472	CLPTM1 regulator of GABA type A receptor forward trafficking [Source:VGNC Symbol;Acc:VGNC:71265]	-	1.879686024	0.009266736	0.03327416
ENSMMUG00000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]	-	1.878206555	3.83E-10	8.74E-09
ENSMMUG00000015143	F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]	-	1.877902118	0.00011142	0.000793434
ENSMMUG00000022627	HLF transcription factor, PAR bZIP family member [Source:VGNC Symbol;Acc:VGNC:73478]	-	1.877285394	0.000241173	0.001540675
ENSMMUG00000014049	collagen type VI alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:71303]	-	1.876668127	0.006621588	0.025366042
ENSMMUG00000057697		-	1.874051686	5.08E-05	0.000405684
ENSMMUG00000008113	pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]	-	1.873680473	0.000922387	0.004897215
ENSMMUG00000007766	suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]	-	-1.87304489	3.31E-06	3.57E-05
ENSMMUG00000014531	transmembrane protein 109 [Source:VGNC Symbol;Acc:VGNC:79740]	-	1.872374683	5.00E-08	7.91E-07
ENSMMUG00000057475		-	1.869331674	0.001524537	0.0074154
ENSMMUG00000012224	family with sequence similarity 126 member B [Source:VGNC Symbol;Acc:VGNC:72393]	-	-1.86823969	0.001191225	0.006032691
ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]	-	1.866755764	4.18E-09	7.98E-08
ENSMMUG00000020036	Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]	-	1.865285678	0.000104454	0.000750346
ENSMMUG00000057860	olfactory receptor 51E1 [Source:NCBI gene;Acc:717598]	-	1.861628905	0.001124135	0.005740945
ENSMMUG00000000618	gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]	-	1.859189859	1.54E-05	0.000141368

ENSMMUG0000002657	olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]	-	1.856764404	8.85E-05	0.00065318
ENSMMUG00000051385		-	1.856552107	0.003155673	0.013681262
ENSMMUG00000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]	-	1.854973011	2.01E-06	2.29E-05
ENSMMUG00000053008		-	1.853718906	4.83E-05	0.000387648
ENSMMUG00000038768	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.852756807	0.000374904	0.002245588
ENSMMUG0000000620	dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]	-	1.852085531	0.001957219	0.009145
ENSMMUG00000053344	splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]	-	-1.85060684	0.001396971	0.006887354
ENSMMUG00000008579	defective in cullin neddylation 1 domain containing 4 [Source:VGNC Symbol;Acc:VGNC:71809]	-	1.850301425	0.000986382	0.005174247
ENSMMUG00000059794		-	1.849478605	0.001256292	0.006302485
ENSMMUG00000015151	interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]	-	-1.84790357	0.000487967	0.00284516
ENSMMUG00000053648	actin binding transcription modulator [Source:NCBI gene;Acc:710486]	-	1.845733924	3.55E-05	0.000295513
ENSMMUG00000052420	transmembrane protein 132A [Source:NCBI gene;Acc:695291]	-	1.844712346	0.000490861	0.002857968
ENSMMUG00000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	-	1.843448947	0.000321415	0.001974271
ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	-	1.839488641	3.94E-11	1.04E-09
ENSMMUG00000003511	chloride intracellular channel 5 [Source:VGNC Symbol;Acc:VGNC:71171]	-	1.838049546	2.75E-07	3.79E-06
ENSMMUG00000001942	mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]	-	1.837193215	4.04E-11	1.06E-09
ENSMMUG00000021691	spastin [Source:VGNC Symbol;Acc:VGNC:77857]	-	1.836788032	1.27E-05	0.000118664
ENSMMUG00000001529	solute carrier family 25 member 26 [Source:VGNC Symbol;Acc:VGNC:77530]	-	1.835575772	4.24E-13	1.60E-11
ENSMMUG00000008916	transferrin [Source:VGNC Symbol;Acc:VGNC:82716]	-	1.831281862	4.04E-08	6.53E-07
ENSMMUG00000054447	T-box transcription factor 22 [Source:NCBI gene;Acc:708338]	-	1.831097872	0.000154489	0.001050238
ENSMMUG00000023076	diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]	-	1.829470772	2.13E-06	2.41E-05
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	-	1.826871737	1.90E-08	3.25E-07
ENSMMUG00000008632	myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]	-	1.826590289	0.001552657	0.007510313
ENSMMUG00000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]	-	1.825663886	0.000252215	0.001597638
ENSMMUG00000013035	teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]	-	1.823486073	0.000161518	0.001091379
ENSMMUG00000004412	arginine and serine rich coiled-coil 2 [Source:VGNC Symbol;Acc:VGNC:77139]	-	1.823050868	0.004676927	0.019021875
ENSMMUG00000050177		-	1.820731195	5.58E-05	0.000440383
ENSMMUG00000018795	kynurenine aminotransferase 3 [Source:VGNC Symbol;Acc:VGNC:74177]	-	1.820223075	0.000449931	0.002639666
ENSMMUG00000019146	DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]	-	1.817727197	0.000127191	0.000888745

ENSMMUG00000031121	solute carrier family 25 member 18 [Source:VGNC Symbol;Acc:VGNC:77434]	-	1.816725523	9.19E-06	8.90E-05
ENSMMUG00000019148	vitronectin [Source:NCBI gene;Acc:708499]	-	1.814393247	5.24E-07	6.78E-06
ENSMMUG00000001209	arylsulfatase family member K [Source:VGNC Symbol;Acc:VGNC:84280]	-	1.813444104	0.000700196	0.003878046
ENSMMUG00000001531	leucine rich repeats and immunoglobulin like domains 1 [Source:VGNC Symbol;Acc:VGNC:84156]	-	1.812453693	3.26E-15	1.74E-13
ENSMMUG000000047994	CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]	-	1.809795536	0.000849728	0.004564686
ENSMMUG000000061344		-	1.809576709	0.000834984	0.004507154
ENSMMUG000000043161	endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]	-	1.809221838	0.000254042	0.001605364
ENSMMUG000000020435	amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]	-	1.809126633	0.000126319	0.000884163
ENSMMUG000000009669	cutaneous T cell lymphoma-associated antigen 1 [Source:NCBI gene;Acc:106994443]	-	1.806791641	0.003957057	0.016622072
ENSMMUG000000062538	adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]	-	1.806453995	2.43E-05	0.00021195
ENSMMUG000000016316	testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]	-	1.804216181	0.001386731	0.006845107
ENSMMUG000000057973		-	1.803127157	0.000964166	0.005077364
ENSMMUG000000018356	flagellum associated containing coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:72508]	-	1.800617102	0.001906634	0.008948364
ENSMMUG000000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	-	1.798401782	1.96E-05	0.000174619
ENSMMUG000000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]	-	1.796668829	0.001728709	0.008229342
ENSMMUG000000005801	glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]	-	1.796437071	2.19E-06	2.47E-05
ENSMMUG000000006215	serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]	-	1.792580016	7.91E-07	9.83E-06
ENSMMUG0000000065031		-	1.791995727	1.93E-09	3.91E-08
ENSMMUG0000000051641		-	1.785254993	5.59E-06	5.70E-05
ENSMMUG000000013894	beta-1,4-N-acetyl-galactosaminyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:70121]	-	-1.78520901	0.002164914	0.009928714
ENSMMUG000000020436	potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]	-	1.781860281	1.83E-10	4.39E-09
ENSMMUG000000020812	A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]	-	1.779903323	0.003055267	0.013302264
ENSMMUG0000000051661		-	1.778629915	0.000806018	0.004371919
ENSMMUG0000000056910		-	1.778566958	2.47E-05	0.000214756
ENSMMUG000000019672	autophagy related 13 [Source:VGNC Symbol;Acc:VGNC:70148]	-	-1.7768423	0.014000515	0.046345363
ENSMMUG0000000065105		-	1.776781114	0.010272932	0.036211581
ENSMMUG000000020910	nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]	-	1.776401778	0.00025243	0.001597638
ENSMMUG000000028701		-	1.775202264	0.000352049	0.002134701
ENSMMUG000000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	-	1.774211301	8.07E-05	0.000603525

ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	-1.76978759	8.39E-09	1.53E-07
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	1.766564709	0.000589442	0.003332625
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]	1.765695209	2.37E-12	7.90E-11
ENSMMUG00000003864	VPS52 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:78551]	1.765647592	2.23E-09	4.47E-08
ENSMMUG00000007708	N-alpha-acetyltransferase 20, NatB catalytic subunit [Source:VGNC Symbol;Acc:VGNC:84533]	1.762670253	0.013224404	0.044337465
ENSMMUG00000024186	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	1.762608596	0.008856813	0.032083435
ENSMMUG00000052479		1.762242949	0.005650493	0.022288255
ENSMMUG00000065344	homeobox D1 [Source:NCBI gene;Acc:701064]	1.761841694	5.54E-06	5.65E-05
ENSMMUG00000007411	integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]	1.759693564	5.09E-07	6.59E-06
ENSMMUG00000065008		1.759626872	0.000555626	0.003176372
ENSMMUG00000002652	zinc finger MIZ-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79350]	1.757117993	2.97E-05	0.000252876
ENSMMUG00000012396	zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]	1.756625734	0.000101547	0.00073246
ENSMMUG00000059855	Smad nuclear interacting protein 1 [Source:NCBI gene;Acc:713733]	1.755197053	0.002803848	0.012356433
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	1.754743709	4.38E-10	9.94E-09
ENSMMUG00000016610	CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]	1.754596676	0.000286339	0.001786491
ENSMMUG00000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]	1.753615049	5.59E-10	1.25E-08
ENSMMUG00000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	1.753228368	8.06E-12	2.38E-10
ENSMMUG00000003260		-1.75299029	1.74E-07	2.49E-06
ENSMMUG00000010695	adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]	1.750521113	0.000232959	0.001498328
ENSMMUG00000057407	dorsal root ganglia homeobox [Source:NCBI gene;Acc:719355]	1.747036803	0.011476268	0.039389781
ENSMMUG00000059327	NUS1 dehydrolipichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]	1.744420511	8.95E-08	1.35E-06
ENSMMUG00000007325	Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]	1.743635377	0.000566189	0.003226256
ENSMMUG00000012110	smoothed, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	1.742402134	9.16E-06	8.88E-05
ENSMMUG00000007920	myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]	1.740666786	4.42E-08	7.09E-07
ENSMMUG00000007264	transmembrane protein 30B [Source:VGNC Symbol;Acc:VGNC:79656]	1.740383486	1.69E-05	0.000153873
ENSMMUG00000043727	zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]	1.739365595	0.015337572	0.04999048
ENSMMUG00000059115		1.738777441	0.000963756	0.005077364
ENSMMUG00000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.736558339	7.29E-06	7.22E-05
ENSMMUG00000022680	alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]	1.736437606	3.27E-05	0.000274917

ENSMMUG00000055097		-1.73636762	0.002587909	0.011530821
ENSMMUG00000056687		1.735143601	5.13E-06	5.29E-05
ENSMMUG00000056306		1.732974478	8.45E-08	1.29E-06
ENSMMUG00000019105	RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]	1.732619708	0.004916675	0.019839414
ENSMMUG00000050297		1.732295476	1.08E-08	1.93E-07
ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	1.731453613	8.17E-12	2.40E-10
ENSMMUG00000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	1.728380244	1.84E-08	3.17E-07
ENSMMUG00000064596	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674454]	1.728118987	0.002963162	0.012960933
ENSMMUG00000055575	olfactory marker protein [Source:HGNC Symbol;Acc:HGNC:8136]	1.728020722	0.001012872	0.005281801
ENSMMUG00000020117	semaphorin 3B [Source:VGNC Symbol;Acc:VGNC:77160]	1.725202835	3.54E-05	0.000294813
ENSMMUG00000022548	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:VGNC Symbol;Acc:VGNC:75992]	1.724938352	7.42E-05	0.00056297
ENSMMUG00000007424	nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]	1.724546077	1.69E-08	2.92E-07
ENSMMUG00000007215	X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]	1.722709112	9.95E-05	0.000719612
ENSMMUG00000054309	PRAME family member 5 [Source:NCBI gene;Acc:722781]	1.721541463	0.014499926	0.047779784
ENSMMUG00000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]	1.721294096	8.02E-05	0.000599987
ENSMMUG00000056737		1.716716955	0.00114212	0.005807942
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	1.714233988	0.000730044	0.004005789
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	1.711877611	3.61E-07	4.86E-06
ENSMMUG00000045105	phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]	1.711387296	6.44E-07	8.17E-06
ENSMMUG00000059208	aurora kinase A interacting protein 1 [Source:NCBI gene;Acc:706329]	1.711303196	0.001621924	0.00780543
ENSMMUG00000063267	aldo-keto reductase family 1 member C15 [Source:NCBI gene;Acc:722496]	1.710674028	0.001935142	0.009064341
ENSMMUG00000060932	zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]	-1.70974229	0.001049377	0.005425375
ENSMMUG00000007765	Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]	1.709400659	9.05E-17	5.98E-15
ENSMMUG00000008119	telomere maintenance 2 [Source:NCBI gene;Acc:701679]	1.708708959	3.53E-05	0.000294315
ENSMMUG00000050862		1.708652263	4.75E-07	6.20E-06
ENSMMUG00000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	1.707886613	3.19E-10	7.38E-09
ENSMMUG00000058142		1.706731523	8.02E-10	1.75E-08
ENSMMUG00000053889	olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]	-1.70416289	0.000294963	0.001832856
ENSMMUG00000044473		-1.70320607	3.54E-05	0.000294813
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]	1.702742328	1.27E-11	3.61E-10

ENSMMUG0000003858	retinoid X receptor beta [Source:VGNC Symbol;Acc:VGNC:76952]	-	1.701423701	7.04E-05	0.000539173
ENSMMUG00000016135	neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]	-	1.701149141	0.000656104	0.003660544
ENSMMUG00000044859		-	1.700785114	0.013330856	0.04458491
ENSMMUG00000058240		-	1.700727694	0.000844711	0.004541707
ENSMMUG00000053721		-	1.700704339	0.000316567	0.001952295
ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]	-	1.696709721	6.16E-05	0.000478878
ENSMMUG0000007561	zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]	-	1.695235154	4.52E-07	5.93E-06
ENSMMUG00000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]	-	1.695216723	0.001536603	0.007462025
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]	-	-1.69501143	1.01E-06	1.23E-05
ENSMMUG00000052574		-	1.693127081	4.10E-08	6.62E-07
ENSMMUG00000012513	lactamase beta 2 [Source:VGNC Symbol;Acc:VGNC:74072]	-	1.691305934	0.0029493	0.012914088
ENSMMUG00000006553	dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]	-	1.689134034	0.00015041	0.001026483
ENSMMUG00000051020	zinc finger protein 467 [Source:NCBI gene;Acc:712106]	-	-1.68822286	0.000199133	0.001313057
ENSMMUG00000018679	glyceraldehyde-3-phosphate dehydrogenase [Source:NCBI gene;Acc:574353]	-	1.683258921	0.000208846	0.00136611
ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	-	1.682892986	4.34E-07	5.71E-06
ENSMMUG00000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	-	1.680765513	2.10E-08	3.58E-07
ENSMMUG00000065099		-	-1.68002394	2.29E-05	0.000200879
ENSMMUG00000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]	-	-1.67952223	1.42E-06	1.68E-05
ENSMMUG00000064615	pancreatic and duodenal homeobox 1 [Source:NCBI gene;Acc:710936]	-	1.678404299	0.011589965	0.039713483
ENSMMUG00000055271		-	1.677964199	0.000946647	0.005008569
ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]	-	1.672582028	9.86E-05	0.00071393
ENSMMUG00000051261		-	1.671311787	0.001550703	0.007506769
ENSMMUG00000004153	ATM serine/threonine kinase [Source:VGNC Symbol;Acc:VGNC:70173]	-	1.670267146	0.004599183	0.018761553
ENSMMUG00000062338		-	1.669427215	0.001198074	0.006054996
ENSMMUG00000018976	adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]	-	1.668657857	0.004682542	0.019038411
ENSMMUG00000021534	solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]	-	1.665869525	0.01075007	0.037451563
ENSMMUG00000011401	amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]	-	1.664957608	0.002725735	0.012049062
ENSMMUG00000000797	exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]	-	-1.66381237	9.34E-05	0.000684038
ENSMMUG00000052817	Sp7 transcription factor [Source:NCBI gene;Acc:702575]	-	1.662288573	0.00902155	0.032565015
ENSMMUG00000007109	dishevelled segment polarity protein 1 [Source:NCBI gene;Acc:705864]	-	1.662262653	0.000653019	0.003644987

ENSMMUG00000061068		-	1.661995644	2.43E-05	0.000211866
ENSMMUG00000021932	Rho GTPase activating protein 27 [Source:VGNC Symbol;Acc:VGNC:69935]	-	1.661206728	0.00379116	0.016034807
ENSMMUG00000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]	-	1.658494923	1.06E-12	3.75E-11
ENSMMUG000000054615		-	1.653695864	0.000658392	0.003668181
ENSMMUG00000012209	CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]	-	1.653068657	1.34E-05	0.00012452
ENSMMUG00000013053	sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]	-	1.649479782	7.37E-06	7.28E-05
ENSMMUG00000022791	heat shock transcription factor 2 binding protein [Source:VGNC Symbol;Acc:VGNC:73532]	-	1.649145131	0.011371942	0.039130052
ENSMMUG00000049786		-	1.642797731	0.009019733	0.032565015
ENSMMUG00000020377	collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]	-	1.641918761	1.53E-08	2.67E-07
ENSMMUG00000002678	integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]	-	1.641396436	0.000212868	0.001390203
ENSMMUG00000016631	glutamate receptor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73195]	-	-1.63883279	0.011683532	0.039967241
ENSMMUG00000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	-	1.637245857	4.27E-09	8.16E-08
ENSMMUG00000001642	MNAT1 component of CDK activating kinase [Source:VGNC Symbol;Acc:VGNC:74905]	-	1.635901864	0.000145571	0.000999559
ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]	-	-1.63545813	1.23E-08	2.18E-07
ENSMMUG00000021327	phosphatidylinositol glycan anchor biosynthesis class H [Source:VGNC Symbol;Acc:VGNC:75987]	-	1.635133993	0.005879499	0.022977716
ENSMMUG00000008733	ubiquitin protein ligase E3C [Source:VGNC Symbol;Acc:VGNC:79049]	-	1.635077491	3.27E-05	0.000274917
ENSMMUG00000016004	acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]	-	1.634700586	0.001349957	0.00669315
ENSMMUG000000052676		-	1.633850539	4.95E-08	7.85E-07
ENSMMUG000000059068		-	1.633393011	0.012423432	0.042065124
ENSMMUG00000005181	RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]	-	1.632832159	0.005683696	0.02238331
ENSMMUG000000049563		-	1.632748379	3.22E-07	4.38E-06
ENSMMUG00000016857	prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]	-	1.631117393	2.30E-08	3.90E-07
ENSMMUG000000052435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.630493822	0.005573645	0.022048816
ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]	-	1.630481263	0.001570793	0.007583116
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	-	1.630338734	1.19E-08	2.12E-07
ENSMMUG000000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]	-	1.629376479	9.09E-07	1.12E-05
ENSMMUG000000063659		-	1.628180713	0.006573526	0.025209115
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	-	1.625098608	5.34E-06	5.47E-05
ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]	-	1.624314973	4.33E-06	4.54E-05

ENSMMUG00000019740	zinc finger DHHC-type palmitoyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:79143]	-	1.623603759	0.015090339	0.04936794
ENSMMUG00000003859	solute carrier family 39 member 7 [Source:VGNC Symbol;Acc:VGNC:77592]	-	1.618178461	0.000728186	0.004000647
ENSMMUG000000052442		-	1.617984833	8.06E-10	1.76E-08
ENSMMUG000000049523	ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]	-	1.616600788	0.001482796	0.007246539
ENSMMUG000000057501		-	1.610831734	0.002601483	0.011576694
ENSMMUG000000061433		-	1.610660804	3.99E-07	5.30E-06
ENSMMUG000000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	-	1.610544062	0.002367395	0.01072527
ENSMMUG000000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	-	1.609663702	1.52E-11	4.26E-10
ENSMMUG000000060600		-	1.608481959	5.88E-05	0.00046154
ENSMMUG000000007159	tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]	-	1.608139813	0.000477483	0.002791981
ENSMMUG000000054689		-	1.607160972	0.00173118	0.008237683
ENSMMUG000000059038	5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]	-	1.604965587	0.000138416	0.000956306
ENSMMUG000000021670	solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]	-	1.604487732	0.000189602	0.001263774
ENSMMUG000000005040	coiled-coil domain containing 183 [Source:NCBI gene;Acc:709019]	-	1.603507132	0.003524938	0.015032967
ENSMMUG000000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	-	1.601991973	0.000247176	0.001570049
ENSMMUG000000060505		-	-1.59983304	0.001742339	0.008271566
ENSMMUG000000019252	tudor domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79319]	-	1.599696424	1.47E-07	2.13E-06
ENSMMUG000000062615		-	1.597355318	0.007891456	0.029247387
ENSMMUG000000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	-	1.595411408	0.001858336	0.008754622
ENSMMUG000000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	-	-1.59431359	0.000578348	0.003284879
ENSMMUG000000021388	circadian associated repressor of transcription [Source:VGNC Symbol;Acc:VGNC:71345]	-	1.593893913	3.65E-05	0.000302836
ENSMMUG000000005610	protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]	-	1.590246238	8.49E-07	1.05E-05
ENSMMUG000000001551	SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]	-	1.589514404	1.71E-05	0.00015503
ENSMMUG000000003238	pregnancy zone protein [Source:NCBI gene;Acc:100430319]	-	1.589446558	1.25E-06	1.49E-05
ENSMMUG000000058302		-	1.585924144	0.001377477	0.006807626
ENSMMUG000000010328	MYST/Esa1 associated factor 6 [Source:VGNC Symbol;Acc:VGNC:74580]	-	1.583492395	0.014454563	0.047648718
ENSMMUG000000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]	-	1.582241503	4.56E-09	8.64E-08
ENSMMUG000000019836	myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]	-	-1.58171295	0.000388289	0.002316727
ENSMMUG000000058942		-	-1.57717362	2.99E-06	3.25E-05
ENSMMUG000000010113	steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]	-	1.577030156	1.44E-06	1.69E-05

ENSMMUG00000064458		-	1.576163108	0.001120378	0.005728191
ENSMMUG00000012029	sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]	-	1.576055996	1.97E-06	2.26E-05
ENSMMUG00000017558	discoidin, CUB and LCCL domain containing 1 [Source:VGNC Symbol;Acc:VGNC:71689]	-	1.575953528	0.0020007	0.009318152
ENSMMUG00000013055	malic enzyme 3 [Source:VGNC Symbol;Acc:VGNC:74695]	-	1.571314105	0.000769111	0.004190221
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	-	-1.56997217	0.00019349	0.001284811
ENSMMUG00000021775	beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]	-	-1.56964108	0.000225343	0.001456967
ENSMMUG00000015132	galectin 8 [Source:VGNC Symbol;Acc:VGNC:74258]	-	1.568253352	0.005902027	0.023043778
ENSMMUG00000006703	solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]	-	-1.56784731	0.000246441	0.001566709
ENSMMUG00000052540		-	1.566767456	0.001218837	0.006144677
ENSMMUG00000019815	transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]	-	1.565744482	0.004842388	0.019578219
ENSMMUG00000020148	BAG cochaperone 1 [Source:NCBI gene;Acc:702101]	-	1.563930302	0.014890834	0.048819215
ENSMMUG00000050975		-	1.563717685	0.001039306	0.005389918
ENSMMUG00000060744		-	1.562892836	0.005290113	0.021131224
ENSMMUG00000049575	T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]	-	1.560575894	0.00085131	0.004569193
ENSMMUG00000052229		-	1.558695246	0.000563007	0.003211098
ENSMMUG00000007775	survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]	-	1.558613854	0.001605183	0.007736984
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	-	1.557491019	1.60E-05	0.00014637
ENSMMUG00000000962	H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]	-	1.557071542	0.000107604	0.000769829
ENSMMUG00000023137	zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]	-	1.556281204	2.58E-05	0.00022261
ENSMMUG00000059657	chromosome 5 C4orf36 homolog [Source:NCBI gene;Acc:700500]	-	-1.55572395	0.005761745	0.022625432
ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]	-	-1.55471455	3.29E-10	7.59E-09
ENSMMUG00000061761	interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]	-	1.553759455	8.71E-08	1.32E-06
ENSMMUG00000020898	cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]	-	1.553414101	0.001959058	0.009145
ENSMMUG00000021373	rhomboid domain containing 3 [Source:NCBI gene;Acc:714479]	-	1.553361892	2.71E-05	0.000232558
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]	-	1.553326029	5.46E-06	5.58E-05
ENSMMUG00000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	-	1.552669179	4.47E-12	1.37E-10
ENSMMUG00000065307		-	-1.5516662	0.001155923	0.005873273
ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]	-	1.547714301	0.001863745	0.008773376
ENSMMUG00000002318	stimulated by retinoic acid 8 [Source:VGNC Symbol;Acc:VGNC:78250]	-	1.547568021	0.008388262	0.030702836
ENSMMUG00000061278		-	1.547143038	0.000201718	0.001323716
ENSMMUG00000062443		-	1.546401171	2.07E-05	0.000183268

ENSMMUG00000057768		-	1.545913236	7.75E-07	9.66E-06
ENSMMUG00000059080		-	1.544905231	0.004115677	0.017153541
ENSMMUG00000049885		-	1.544782724	6.21E-05	0.00048209
ENSMMUG00000054412		-	1.543595652	2.66E-05	0.000229094
ENSMMUG00000016077	isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]	-	1.543264109	0.009947901	0.035236211
ENSMMUG00000023558	exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]	-	1.542304514	0.010891373	0.037836594
ENSMMUG00000003877	KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]	-	1.541716889	0.003990136	0.01673477
ENSMMUG00000060167		-	1.540450849	0.000407655	0.002414694
ENSMMUG00000062021		-	1.540407655	0.003310709	0.014262853
ENSMMUG00000058170	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.539555141	0.006014214	0.023385229
ENSMMUG00000016581	methyltransferase like 18 [Source:VGNC Symbol;Acc:VGNC:74606]	-	1.539194251	0.003798183	0.016047943
ENSMMUG00000003288	glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]	-	1.533774652	1.23E-06	1.48E-05
ENSMMUG00000049539		-	1.532219498	9.60E-05	0.000700425
ENSMMUG00000013940	kinesin family member 4A [Source:NCBI gene;Acc:695574]	-	1.531572273	0.005885979	0.022988424
ENSMMUG00000003053	APC regulator of WNT signaling pathway 2 [Source:VGNC Symbol;Acc:VGNC:69888]	-	1.530617101	0.001717395	0.008184762
ENSMMUG00000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	-	1.529972374	7.58E-10	1.66E-08
ENSMMUG00000010891	lysine acetyltransferase 6A [Source:VGNC Symbol;Acc:VGNC:73821]	-	1.528969447	0.000191095	0.001272344
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	-	1.528938305	3.85E-08	6.23E-07
ENSMMUG00000018640	Dmx like 1 [Source:VGNC Symbol;Acc:VGNC:71935]	-	1.528533787	0.003367475	0.014476962
ENSMMUG00000008212	tenomodulin [Source:VGNC Symbol;Acc:VGNC:79087]	-	-1.52826415	0.000398437	0.002366935
ENSMMUG00000005204	VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]	-	1.528248757	0.010638447	0.037157475
ENSMMUG00000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	-	1.527691535	3.60E-09	6.96E-08
ENSMMUG00000008710	protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]	-	1.527667983	0.001549575	0.007504264
ENSMMUG00000003483	cyclin dependent kinase 2 interacting protein [Source:VGNC Symbol;Acc:VGNC:71326]	-	1.526598721	2.41E-05	0.000210997
ENSMMUG00000021374	EWS RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72446]	-	-1.52505233	0.000100131	0.000723096
ENSMMUG00000054064		-	1.524532893	9.83E-05	0.000712832
ENSMMUG00000062974		-	1.523530799	0.005164927	0.020739013
ENSMMUG00000018081	ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]	-	-1.523474	1.95E-05	0.000173999
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	-	1.522910826	2.60E-10	6.10E-09

ENSMMUG00000010114	Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]	-	1.521752952	0.000106866	0.000765884
ENSMMUG00000003134	ring finger protein 217 [Source:VGNC Symbol;Acc:VGNC:76801]	-	-1.52013538	0.000377739	0.002259264
ENSMMUG000000053624		-	1.516935174	0.000589466	0.003332625
ENSMMUG00000017486	minichromosome maintenance complex component 6 [Source:VGNC Symbol;Acc:VGNC:74685]	-	1.516634502	0.00031828	0.001961247
ENSMMUG000000053794		-	1.513880456	0.000533544	0.003067251
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	-	1.513354036	1.00E-06	1.22E-05
ENSMMUG00000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]	-	1.507971233	2.29E-07	3.21E-06
ENSMMUG00000002093	testis expressed 261 [Source:NCBI gene;Acc:703863]	-	1.507758252	1.36E-07	1.98E-06
ENSMMUG000000045680	iron responsive element binding protein 2 [Source:VGNC Symbol;Acc:VGNC:84360]	-	1.506077457	0.007033015	0.026526757
ENSMMUG000000015167	DIS3 like 3'-5' exoribonuclease 2 [Source:VGNC Symbol;Acc:VGNC:71793]	-	1.505773234	0.013838175	0.04593168
ENSMMUG00000006950	cornichon family AMPA receptor auxiliary protein 2 [Source:VGNC Symbol;Acc:VGNC:71366]	-	1.504729377	0.011138321	0.0384878
ENSMMUG000000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	-	1.503498668	2.88E-06	3.15E-05
ENSMMUG000000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	-	1.502874186	1.85E-05	0.000166529
ENSMMUG000000005895	nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]	-	1.501939243	0.000985531	0.005172142
ENSMMUG000000008918	SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]	-	1.501932625	7.63E-05	0.000575397
ENSMMUG000000040273	zinc finger protein 257 [Source:NCBI gene;Acc:694388]	-	1.501278151	0.001340831	0.006658646
ENSMMUG000000040506	H2B clustered histone 18 [Source:HGNC Symbol;Acc:HGNC:24700]	-	-1.50022047	0.002026524	0.009420575
ENSMMUG000000062047		-	1.498613511	0.006228711	0.024089707
ENSMMUG000000050923		-	1.498133643	3.68E-05	0.000304671
ENSMMUG000000003869	WD repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:78940]	-	1.497927693	0.004049323	0.016924117
ENSMMUG000000021173	nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]	-	1.496123074	6.00E-08	9.36E-07
ENSMMUG000000020175	mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]	-	1.495438983	0.005228213	0.020958894
ENSMMUG000000062791		-	1.494958044	0.009746178	0.034681609
ENSMMUG000000062140		-	1.494183241	0.001519607	0.007399957
ENSMMUG000000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	-	1.492725665	0.003990693	0.01673477
ENSMMUG000000014343	lipase family member J [Source:VGNC Symbol;Acc:VGNC:74333]	-	1.492370384	0.000592326	0.003345718
ENSMMUG00000009001	transmembrane 131 like [Source:VGNC Symbol;Acc:VGNC:79781]	-	1.491985162	0.005513069	0.021858431
ENSMMUG000000019262	calcium voltage-gated channel subunit alpha1 D [Source:VGNC Symbol;Acc:VGNC:70501]	-	1.491850477	0.00924185	0.033223625
ENSMMUG000000017379	myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]	-	1.491236415	9.83E-05	0.000712832

ENSMMUG0000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	-	1.490306468	2.82E-09	5.51E-08
ENSMMUG0000005442	5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]	-	1.489677398	0.000140938	0.000971546
ENSMMUG0000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]	-	1.488759376	2.01E-06	2.29E-05
ENSMMUG00000012636	potassium channel tetramerization domain containing 4 [Source:VGNC Symbol;Acc:VGNC:73892]	-	1.486310319	0.00344892	0.014778701
ENSMMUG00000012463	DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]	-	1.485043359	3.66E-05	0.000303363
ENSMMUG00000011675	zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]	-	1.483407802	1.57E-07	2.27E-06
ENSMMUG00000031398	coiled-coil domain containing 173 [Source:NCBI gene;Acc:709886]	-	1.482360634	0.006722143	0.025698868
ENSMMUG00000049948		-	1.481406069	0.000306239	0.001896216
ENSMMUG00000011269	CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]	-	1.481293127	1.71E-06	1.98E-05
ENSMMUG00000016925	laminin subunit beta 3 [Source:VGNC Symbol;Acc:VGNC:74230]	-	1.480732297	7.22E-07	9.08E-06
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	-	1.479575628	6.23E-06	6.26E-05
ENSMMUG00000050245		-	1.478477197	0.006806232	0.025940884
ENSMMUG00000000681	calmin [Source:VGNC Symbol;Acc:VGNC:71232]	-	1.475827143	5.43E-11	1.41E-09
ENSMMUG00000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	-	1.475743699	1.45E-09	3.01E-08
ENSMMUG00000056116		-	1.475350476	3.07E-05	0.000260895
ENSMMUG00000020184	carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]	-	1.475194552	0.009171692	0.033019704
ENSMMUG00000021083	Josephin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73920]	-	1.473354944	0.00232406	0.010552281
ENSMMUG00000023446	tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]	-	-1.47310989	1.38E-05	0.000128189
ENSMMUG00000063312		-	1.472312632	5.79E-05	0.000454766
ENSMMUG00000020592	Gse1 coiled-coil protein [Source:VGNC Symbol;Acc:VGNC:73254]	-	1.470169863	0.002271714	0.010356688
ENSMMUG00000017396	3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]	-	1.470016659	0.005945309	0.023190668
ENSMMUG00000023141	CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]	-	1.469350894	0.004223497	0.017513835
ENSMMUG00000001008	spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]	-	1.468892729	2.88E-05	0.00024631
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	-	1.468132697	6.06E-06	6.11E-05
ENSMMUG00000051115		-	1.467699608	0.011825987	0.04037589
ENSMMUG00000020847	CKLF like MARVEL transmembrane domain containing 3 [Source:VGNC Symbol;Acc:VGNC:71215]	-	-1.46645612	0.002597026	0.011565236
ENSMMUG00000022123	tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]	-	1.466238554	1.40E-05	0.000129983
ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	-	1.466158983	0.001716147	0.008181986
ENSMMUG00000021282	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]	-	1.465382699	0.00175622	0.008321395

ENSMMUG00000019145	TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]	-	1.465313849	0.000391333	0.002330366
ENSMMUG00000004432	anaphase promoting complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:69682]	-	1.463870105	0.014953405	0.048959058
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	-	1.463676478	1.41E-05	0.000130806
ENSMMUG00000006509	CREB regulated transcription coactivator 1 [Source:VGNC Symbol;Acc:VGNC:71418]	-	1.463445654	0.00181213	0.008559914
ENSMMUG00000004052	phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]	-	-1.46330176	0.00488748	0.019741052
ENSMMUG00000012101	synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]	-	1.462313688	0.00062379	0.003502512
ENSMMUG00000064013		-	1.461955845	0.014951048	0.048959058
ENSMMUG00000021695	Morf4 family associated protein 1 [Source:NCBI gene;Acc:710771]	-	1.461850316	0.011807392	0.040323607
ENSMMUG00000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]	-	1.460695262	9.16E-05	0.000673212
ENSMMUG00000001121	zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]	-	1.460542705	0.00152182	0.007407797
ENSMMUG00000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	-	1.460110562	8.14E-12	2.40E-10
ENSMMUG00000050300		-	-1.45995282	0.007129026	0.026820586
ENSMMUG00000019045	estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]	-	1.459450356	0.000229431	0.001480282
ENSMMUG00000004493	propionyl-CoA carboxylase subunit alpha [Source:VGNC Symbol;Acc:VGNC:75773]	-	1.458520372	5.07E-05	0.000404895
ENSMMUG00000058016	bMERB domain containing 1 [Source:NCBI gene;Acc:713757]	-	1.457881319	0.000241372	0.001541144
ENSMMUG00000019977	myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]	-	1.456381594	3.79E-07	5.07E-06
ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]	-	1.451566303	1.61E-06	1.87E-05
ENSMMUG00000003688	zinc finger protein 91 [Source:HGNC Symbol;Acc:HGNC:13166]	-	1.450587887	0.007383047	0.027632471
ENSMMUG00000063262		-	1.450181558	1.41E-08	2.46E-07
ENSMMUG00000040803	sarcalumenin [Source:NCBI gene;Acc:704655]	-	1.450063124	0.010975465	0.038062987
ENSMMUG00000009303	coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]	-	1.447639647	0.000515007	0.002977398
ENSMMUG00000015608	tudor domain containing 12 [Source:VGNC Symbol;Acc:VGNC:82254]	-	1.447531084	0.00123797	0.006223267
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	-	1.445255278	1.11E-06	1.34E-05
ENSMMUG00000006163	malate dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:74690]	-	1.444679937	3.72E-08	6.04E-07
ENSMMUG00000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	-	1.444347524	5.90E-07	7.56E-06
ENSMMUG00000016695	CD320 molecule [Source:VGNC Symbol;Acc:VGNC:70763]	-	1.443140806	0.01053525	0.036880876
ENSMMUG00000054302	antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]	-	-1.44263778	0.001332727	0.006623758
ENSMMUG00000002517	protein tyrosine phosphatase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76567]	-	1.442395184	0.010764828	0.037481728
ENSMMUG00000004710	protein interacting with cyclin A1 [Source:VGNC Symbol;Acc:VGNC:76336]	-	1.441464603	0.001630115	0.007835646

ENSMMUG0000005634	ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]	-	1.440444989	3.81E-05	0.000313898
ENSMMUG0000003120	HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]	-	-1.43781301	0.000682153	0.003785257
ENSMMUG00000047342	T cell receptor alpha variable 12-2 [Source:HGNC Symbol;Acc:HGNC:12106]	-	1.437490614	0.002428158	0.010948087
ENSMMUG00000008214	nuclear export mediator factor [Source:VGNC Symbol;Acc:VGNC:84407]	-	1.437008713	0.001257741	0.006304605
ENSMMUG00000007257	synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]	-	1.435909978	2.67E-11	7.20E-10
ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]	-	1.433850639	5.73E-06	5.82E-05
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	-	1.430131862	6.25E-09	1.16E-07
ENSMMUG00000008974	Fc receptor like 5 [Source:NCBI gene;Acc:718771]	-	1.429926572	0.000115564	0.000818672
ENSMMUG00000022305	Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]	-	-1.42822347	3.47E-07	4.69E-06
ENSMMUG00000060781	G protein-coupled receptor 18 [Source:NCBI gene;Acc:698714]	-	1.427013061	0.002248727	0.010259504
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	-	1.423868876	1.02E-06	1.24E-05
ENSMMUG00000002231	transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]	-	1.417653608	0.000146707	0.001005113
ENSMMUG00000064563		-	1.417620778	0.000658667	0.003668181
ENSMMUG00000022643	Ro60, Y RNA binding protein [Source:NCBI gene;Acc:715194]	-	1.416757651	0.005354259	0.021304369
ENSMMUG00000000983	aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]	-	1.416378766	0.000508097	0.002942989
ENSMMUG00000000262	beta-ureidopropionase 1 [Source:VGNC Symbol;Acc:VGNC:79029]	-	-1.41577277	0.013699029	0.045531306
ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	-	1.415118624	0.001072066	0.005522533
ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	-	1.414976121	5.61E-06	5.71E-05
ENSMMUG00000021788	immunoglobulin superfamily DCC subclass member 4 [Source:VGNC Symbol;Acc:VGNC:73388]	-	-1.41481658	0.003212537	0.013893489
ENSMMUG00000011893	KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]	-	1.414688633	0.000267599	0.001678949
ENSMMUG00000064804		-	1.413600776	0.000925219	0.004905896
ENSMMUG00000054176	methyltransferase like 8 [Source:NCBI gene;Acc:695361]	-	-1.41244274	0.007867886	0.029180501
ENSMMUG00000003712	zinc finger protein 615 [Source:VGNC Symbol;Acc:VGNC:79454]	-	1.411644198	0.002223431	0.01015918
ENSMMUG00000020913	scavenger receptor class B member 2 [Source:VGNC Symbol;Acc:VGNC:77026]	-	1.410616445	1.95E-07	2.78E-06
ENSMMUG00000047162	fibroblast growth factor 10 [Source:VGNC Symbol;Acc:VGNC:84378]	-	1.410510164	3.87E-05	0.000317793
ENSMMUG00000019713	thyroid stimulating hormone receptor [Source:VGNC Symbol;Acc:VGNC:78662]	-	1.410088825	0.002487394	0.011153796
ENSMMUG00000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]	-	1.409440135	0.000636536	0.003564311
ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	-	1.408940449	0.000336746	0.002055978
ENSMMUG00000046765		-	1.407384875	0.002121945	0.009790101
ENSMMUG00000051446		-	1.406071197	0.001177628	0.005968755

ENSMMUG0000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]	-	1.402320773	0.014343582	0.04735347
ENSMMUG00000016399	ral guanine nucleotide dissociation stimulator like 1 [Source:VGNC Symbol;Acc:VGNC:76868]	-	1.401190938	0.013968239	0.046275909
ENSMMUG00000053778		-	1.400229865	0.008518984	0.031097959
ENSMMUG00000055392		-	1.399248681	0.000732482	0.004017375
ENSMMUG00000009038	titin [Source:NCBI gene;Acc:703527]	-	1.397871486	0.00374137	0.015840573
ENSMMUG00000040764	alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]	-	1.396365651	0.002740543	0.012090458
ENSMMUG00000013707	heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]	-	1.396263534	1.49E-07	2.15E-06
ENSMMUG00000040854	aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]	-	1.395480687	0.000241933	0.001543923
ENSMMUG00000002809	unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]	-	1.388435841	0.000724254	0.003984696
ENSMMUG00000009782	C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]	-	1.388205883	0.005727183	0.022518492
ENSMMUG00000007398	potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]	-	1.385254631	0.000328065	0.002010094
ENSMMUG00000004617	glutathione peroxidase 6 [Source:VGNC Symbol;Acc:VGNC:73154]	-	1.383842928	0.012328474	0.041812714
ENSMMUG00000002243	pleckstrin homology and RhoGEF domain containing G7 [Source:VGNC Symbol;Acc:VGNC:76149]	-	1.381899251	1.29E-05	0.000120674
ENSMMUG00000018079	transmembrane serine protease 3 [Source:VGNC Symbol;Acc:VGNC:78576]	-	1.379973247	0.002108223	0.009748749
ENSMMUG00000051366		-	1.379705201	0.004003442	0.016776782
ENSMMUG00000051999		-	1.379519152	0.007420259	0.027754839
ENSMMUG00000019254	phospholipase A2 group VII [Source:VGNC Symbol;Acc:VGNC:76158]	-	1.379117518	2.36E-06	2.63E-05
ENSMMUG00000009961	niban apoptosis regulator 2 [Source:VGNC Symbol;Acc:VGNC:75254]	-	1.378523106	0.00012657	0.000885413
ENSMMUG00000007923	phosphatidylinositol glycan anchor biosynthesis class W [Source:VGNC Symbol;Acc:VGNC:75850]	-	1.377694228	0.001132718	0.005767289
ENSMMUG00000010688	olfactory receptor, family 2, subfamily AT, member 4 [Source:NCBI gene;Acc:694711]	-	1.375816847	0.011302622	0.038935125
ENSMMUG00000000288	C-C motif chemokine ligand 2 [Source:VGNC Symbol;Acc:VGNC:70698]	-	1.374057993	0.005153692	0.020700664
ENSMMUG00000059848	olfactory receptor 5B2 [Source:NCBI gene;Acc:100429465]	-	1.373381279	0.000200767	0.001319625
ENSMMUG00000002589	sulfotransferase 1C3-like [Source:NCBI gene;Acc:114671897]	-	-1.36905399	1.25E-05	0.000117273
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]	-	1.368659641	0.002732078	0.012067441
ENSMMUG00000006857	epididymal sperm binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72046]	-	1.367457691	0.008896123	0.032206846
ENSMMUG00000060798		-	1.365910834	0.000767168	0.004187059
ENSMMUG00000015738	vascular endothelial growth factor D [Source:VGNC Symbol;Acc:VGNC:79953]	-	1.365332242	0.009283292	0.0332947
ENSMMUG00000005466	SPOC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77997]	-	1.363577551	0.000160286	0.001083651
ENSMMUG00000062697	olfactory receptor 5B12 [Source:NCBI gene;Acc:106993236]	-	1.363195565	0.010331525	0.036314211

ENSMMUG00000016665	NADH:ubiquinone oxidoreductase subunit A11 [Source:NCBI gene;Acc:697843]	-	1.362666149	0.002173841	0.009962222
ENSMMUG00000048322	eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]	-	1.361227199	0.002148137	0.00987388
ENSMMUG00000011712	olfactory receptor 5B21 [Source:NCBI gene;Acc:702145]	-	1.360833029	0.012303381	0.041739127
ENSMMUG00000048805		-	1.360244665	0.000719373	0.00396316
ENSMMUG00000016543	CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]	-	1.359588961	0.003652767	0.015513532
ENSMMUG00000035632	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.358690486	0.000564052	0.003215565
ENSMMUG00000054711		-	1.355834777	0.000124766	0.000874286
ENSMMUG00000052454	prostaglandin D2 receptor 2 [Source:NCBI gene;Acc:695853]	-	1.355498523	0.002120634	0.009788848
ENSMMUG00000065060		-	1.354918304	0.00023893	0.001528872
ENSMMUG00000054532		-	1.353698335	0.000132548	0.000918348
ENSMMUG00000031497		-	1.353442749	7.62E-05	0.000575397
ENSMMUG00000007524	RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]	-	1.353056443	2.53E-05	0.000219243
ENSMMUG00000016893	solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]	-	1.348510306	4.66E-06	4.84E-05
ENSMMUG00000061834		-	1.347323133	2.42E-06	2.70E-05
ENSMMUG00000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]	-	1.345990787	0.00212883	0.009810818
ENSMMUG00000064529		-	1.343635626	0.000266959	0.001675786
ENSMMUG00000022120	transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]	-	1.343324202	1.66E-08	2.88E-07
ENSMMUG00000008738	COMM domain containing 10 [Source:VGNC Symbol;Acc:VGNC:71374]	-	1.342713435	0.00684266	0.026010322
ENSMMUG00000043411	zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]	-	1.342059077	0.002958911	0.012946949
ENSMMUG00000057021	CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]	-	1.339323764	0.002287777	0.010419502
ENSMMUG00000016812	coiled-coil domain containing 18 [Source:VGNC Symbol;Acc:VGNC:70913]	-	1.339175823	0.000529999	0.003048439
ENSMMUG00000015799	tolloid like 1 [Source:VGNC Symbol;Acc:VGNC:78369]	-	1.336049566	0.005444335	0.021618424
ENSMMUG00000002269	serine carboxypeptidase 1 [Source:VGNC Symbol;Acc:VGNC:82232]	-	1.334304301	1.44E-05	0.000132943
ENSMMUG00000022056	DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]	-	1.334020546	1.81E-05	0.000163659
ENSMMUG00000003850	collagen type XI alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71290]	-	1.334000978	0.000173469	0.001165089
ENSMMUG00000064806		-	-1.33381488	0.004749396	0.01927198
ENSMMUG00000002911	mutL homolog 3 [Source:VGNC Symbol;Acc:VGNC:82187]	-	1.332929456	0.007011321	0.02647266
ENSMMUG00000018456	PBX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:75771]	-	1.329890314	0.008568216	0.031212787
ENSMMUG00000011338	SLAM family member 8 [Source:VGNC Symbol;Acc:VGNC:77545]	-	-1.32963753	0.000126806	0.00088656

ENSMMUG00000051523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.328157589	0.013478553	0.044980965
ENSMMUG00000022589	prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]	-	1.327563073	0.000511873	0.002960675
ENSMMUG00000003872	ral guanine nucleotide dissociation stimulator like 2 [Source:VGNC Symbol;Acc:VGNC:76886]	-	1.326781861	0.00084205	0.004531365
ENSMMUG00000004460	tyrosyl-DNA phosphodiesterase 1 [Source:VGNC Symbol;Acc:VGNC:79164]	-	1.326506975	0.004038599	0.016895311
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]	-	1.325245317	6.91E-05	0.000530472
ENSMMUG00000021078	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70176]	-	1.325144277	0.014292244	0.047224604
ENSMMUG00000013032	phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]	-	1.324083212	0.000386356	0.002307437
ENSMMUG00000007293	RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]	-	1.322393921	1.95E-05	0.000173999
ENSMMUG00000005225	gap junction protein alpha 1 [Source:VGNC Symbol;Acc:VGNC:73055]	-	1.321770695	0.000999216	0.005219544
ENSMMUG00000061260	Spi-C transcription factor [Source:NCBI gene;Acc:695809]	-	1.321434404	6.15E-05	0.000478874
ENSMMUG00000016723	zinc finger protein 287 [Source:NCBI gene;Acc:695524]	-	1.321227293	0.014538678	0.047868978
ENSMMUG00000047127		-	1.319674231	0.005366917	0.021347825
ENSMMUG00000048710	HIC ZBTB transcriptional repressor 1 [Source:NCBI gene;Acc:721284]	-	1.318129297	0.002580936	0.011506087
ENSMMUG00000004433	ATP binding cassette subfamily E member 1 [Source:VGNC Symbol;Acc:VGNC:69581]	-	1.317290623	0.000117473	0.000829802
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]	-	1.316208318	1.26E-05	0.000118198
ENSMMUG00000023810	methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]	-	1.315902169	3.56E-06	3.82E-05
ENSMMUG00000052977	putative protein FAM106C [Source:NCBI gene;Acc:106994084]	-	-1.31581567	0.000236539	0.001517383
ENSMMUG00000059773	methyltransferase like 11B [Source:NCBI gene;Acc:705503]	-	1.314994785	0.003932826	0.016537244
ENSMMUG00000022163	solute carrier family 1 member 5 [Source:VGNC Symbol;Acc:VGNC:77413]	-	1.314315862	0.003104295	0.013491827
ENSMMUG00000015640	AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]	-	1.313868777	0.000107239	0.000768111
ENSMMUG00000060822		-	1.312107972	3.78E-12	1.18E-10
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	-	1.310633827	5.56E-07	7.18E-06
ENSMMUG00000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]	-	1.310389246	0.001749261	0.008294818
ENSMMUG00000054675		-	1.310115498	0.000294654	0.001831862
ENSMMUG00000056147		-	1.308366741	9.42E-05	0.000688622
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	-	1.306070141	0.000650436	0.003632216
ENSMMUG00000009839	galactokinase 2 [Source:VGNC Symbol;Acc:VGNC:72870]	-	1.305460445	0.002118924	0.009788848
ENSMMUG00000018290	ER membrane protein complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72091]	-	-1.30481953	0.010709623	0.037336193
ENSMMUG00000052282		-	1.304291943	0.000892448	0.004756756

ENSMMUG00000005754	lysyl-tRNA synthetase 1 [Source:NCBI gene;Acc:714516]	-1.30307496	0.006811188	0.025942459
ENSMMUG000000021914	spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]	1.302691299	1.57E-05	0.000143589
ENSMMUG000000012961	mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]	1.302688942	1.38E-05	0.000128081
ENSMMUG000000004648	KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]	1.302379341	2.13E-07	3.00E-06
ENSMMUG000000007244	OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]	1.302146619	4.05E-05	0.000331519
ENSMMUG000000007246	myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]	1.301788802	3.84E-05	0.000316085
ENSMMUG000000058336		-1.3017846	0.004762115	0.01931084
ENSMMUG000000008792	G-patch domain containing 2 like [Source:VGNC Symbol;Acc:VGNC:72973]	1.301574786	0.007282453	0.027305867
ENSMMUG000000017892	RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]	1.300783863	9.81E-05	0.000711963
ENSMMUG000000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]	1.297346479	0.000107436	0.000769074
ENSMMUG000000019266	choline dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71086]	1.296058681	0.000464756	0.002718853
ENSMMUG000000012332	UBA domain containing 2 [Source:NCBI gene;Acc:703484]	1.295044546	2.43E-07	3.37E-06
ENSMMUG000000010627	apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]	1.294339743	1.79E-05	0.000161955
ENSMMUG000000023676	espin [Source:NCBI gene;Acc:722532]	1.292820894	7.39E-06	7.29E-05
ENSMMUG000000050858	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.292079677	0.006945641	0.026299713
ENSMMUG000000052651	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.292067606	0.000121045	0.000852588
ENSMMUG000000060871	prefoldin subunit 2 [Source:NCBI gene;Acc:719886]	1.289588323	0.010085895	0.035622336
ENSMMUG000000003369	calcium/calmodulin dependent protein kinase IG [Source:VGNC Symbol;Acc:VGNC:70521]	1.289015374	0.000985161	0.005172142
ENSMMUG000000044782		1.288948844	2.84E-06	3.11E-05
ENSMMUG000000013031	bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]	1.288063413	4.38E-06	4.59E-05
ENSMMUG000000007256	splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]	1.287736023	0.000301626	0.001870479
ENSMMUG000000009695	BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]	1.285570908	0.001766994	0.008369217
ENSMMUG000000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	1.285557208	1.94E-08	3.33E-07
ENSMMUG000000006796	betaine--homocysteine S-methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70248]	1.283839767	0.01138495	0.039163845
ENSMMUG000000013419	guanylate cyclase 1 soluble subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:82154]	1.281091408	0.004260178	0.017630251
ENSMMUG000000054462		1.279292051	0.0010236	0.005324192
ENSMMUG000000010404	zinc finger protein 41 [Source:VGNC Symbol;Acc:VGNC:78900]	1.277366644	0.000950829	0.005020564
ENSMMUG000000007868	AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]	1.276576202	0.000504541	0.002925147
ENSMMUG000000003958	stromal interaction molecule 1 [Source:VGNC Symbol;Acc:VGNC:77911]	1.276189096	0.005771696	0.022636669

ENSMMUG00000061305		-	1.275453837	0.00272046	0.012040752
ENSMMUG00000053541		-	1.274455378	0.00865007	0.031464341
ENSMMUG00000055835	nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]	-	1.274399872	0.000555998	0.003177019
ENSMMUG00000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	-	1.273961104	7.56E-05	0.000572145
ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	-	1.273480358	3.76E-06	4.00E-05
ENSMMUG00000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.271520485	0.001602509	0.007727123
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	-	-1.26843695	2.54E-06	2.81E-05
ENSMMUG00000044047	killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]	-	-1.26782647	0.001281728	0.006406555
ENSMMUG00000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	-	1.267237175	1.08E-09	2.31E-08
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	-	1.265779914	0.000386842	0.002309213
ENSMMUG00000059663		-	1.265149129	0.00011736	0.000829481
ENSMMUG00000023469	heat shock protein 90 beta family member 1 [Source:NCBI gene;Acc:699568]	-	1.264604132	0.006392785	0.024615828
ENSMMUG00000021372	EMI domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72063]	-	-1.26305512	0.000166014	0.001119299
ENSMMUG00000017922	prostaglandin I2 receptor [Source:VGNC Symbol;Acc:VGNC:76586]	-	1.262894422	0.001439349	0.007065111
ENSMMUG00000058836	transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]	-	1.259975321	0.003443945	0.014764397
ENSMMUG00000051743	TLC domain containing 1 [Source:NCBI gene;Acc:710391]	-	-1.25949547	0.000594032	0.003353813
ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]	-	1.258986551	3.83E-06	4.06E-05
ENSMMUG00000006128	peptidase D [Source:VGNC Symbol;Acc:VGNC:82205]	-	1.258513017	0.006106781	0.023662815
ENSMMUG00000060503	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.258356093	0.006280524	0.024251937
ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]	-	1.258083206	4.24E-06	4.46E-05
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	-	1.257602171	4.18E-05	0.000340769
ENSMMUG00000039829		-	1.257568213	0.006259047	0.024191807
ENSMMUG00000002010	death effector domain containing [Source:VGNC Symbol;Acc:VGNC:71768]	-	1.257230938	7.63E-05	0.000575397
ENSMMUG00000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]	-	1.255919398	5.28E-07	6.82E-06
ENSMMUG00000022983	adhesion G protein-coupled receptor F1 [Source:VGNC Symbol;Acc:VGNC:81007]	-	1.255904911	0.004466736	0.018312427
ENSMMUG00000006904	cyclin L2 [Source:NCBI gene;Acc:114669744]	-	1.255754495	0.010898315	0.037850011
ENSMMUG00000019838	phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]	-	1.255601566	0.000129619	0.000900593
ENSMMUG00000000443	arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]	-	1.254013324	7.66E-06	7.54E-05
ENSMMUG00000009409	mesoderm development LRP chaperone [Source:VGNC Symbol;Acc:VGNC:74507]	-	1.251515351	0.00958871	0.034176385
ENSMMUG00000006668	tubulin alpha-3 chain [Source:NCBI gene;Acc:707215]	-	1.251058954	0.011435855	0.039262895

ENSMMUG0000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	-	1.250954364	7.53E-09	1.38E-07
ENSMMUG00000022880	eukaryotic translation initiation factor 5A2 [Source:VGNC Symbol;Acc:VGNC:72198]	-	1.250344166	0.00100626	0.005254011
ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]	-	1.250257829	9.45E-10	2.04E-08
ENSMMUG00000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-	1.250109661	3.04E-05	0.000258902
ENSMMUG00000044759		-	1.249963364	1.15E-06	1.39E-05
ENSMMUG00000018785	elongator acetyltransferase complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72069]	-	1.249517669	4.23E-07	5.58E-06
ENSMMUG00000006187	angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]	-	1.247354896	7.82E-05	0.000586785
ENSMMUG00000001359	caprin family member 2 [Source:VGNC Symbol;Acc:VGNC:70599]	-	1.246723809	0.000143344	0.000987024
ENSMMUG00000032973	mml-mir-550 [Source:miRBase;Acc:MI0007826]	-	1.246542442	0.010305309	0.036272208
ENSMMUG00000013376	POU class 2 homeobox 2 [Source:NCBI gene;Acc:706835]	-	-1.24645614	4.68E-06	4.86E-05
ENSMMUG00000063972		-	1.245703464	0.000787575	0.004283222
ENSMMUG00000001294	FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]	-	1.243075678	0.004143199	0.017250697
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	-	1.242876421	6.30E-10	1.41E-08
ENSMMUG00000005042	RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]	-	1.241678377	0.000489131	0.00284944
ENSMMUG00000007485	zinc finger protein 555 [Source:VGNC Symbol;Acc:VGNC:79705]	-	1.240715149	0.001171666	0.005943435
ENSMMUG00000047741	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.239896672	9.74E-05	0.000708518
ENSMMUG00000011015	matrix metalloproteinase 27 [Source:VGNC Symbol;Acc:VGNC:74749]	-	1.236687704	0.000196453	0.001298172
ENSMMUG00000011963	vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]	-	1.236416217	5.03E-07	6.54E-06
ENSMMUG00000043922	spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]	-	1.236327634	4.07E-06	4.29E-05
ENSMMUG00000023752	SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]	-	-1.2348217	0.001017871	0.005298876
ENSMMUG00000060665		-	1.234504283	0.004551641	0.018592297
ENSMMUG00000021291	thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]	-	1.232727968	0.009193317	0.03307818
ENSMMUG00000053250		-	1.231526028	0.009312593	0.033360852
ENSMMUG00000022647	cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]	-	1.231313708	0.000856848	0.004592898
ENSMMUG00000013718	translocation associated membrane protein 2 [Source:VGNC Symbol;Acc:VGNC:83515]	-	-1.22972156	1.56E-06	1.82E-05
ENSMMUG00000016354	IQ motif containing N [Source:VGNC Symbol;Acc:VGNC:73683]	-	1.228479153	1.99E-05	0.000177268
ENSMMUG00000013888	NOP56 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75181]	-	1.228143272	0.008418084	0.030802821
ENSMMUG00000007250	RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]	-	1.226947752	0.01257302	0.042489687
ENSMMUG00000054825		-	1.226064756	0.005824655	0.022792369

ENSMMUG0000000690	catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]	-	1.225428217	0.002726234	0.012049062
ENSMMUG00000014350	MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]	-	1.222991571	0.000963346	0.005077364
ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]	-	-1.22094678	0.001229129	0.006183882
ENSMMUG00000018057	uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]	-	1.219822638	0.00562188	0.022196763
ENSMMUG00000048892	SCO-spondin [Source:VGNC Symbol;Acc:VGNC:81765]	-	1.218152335	0.001104037	0.005654049
ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	-	1.217932588	5.37E-05	0.000425941
ENSMMUG00000018285	cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]	-	1.216016404	2.88E-06	3.15E-05
ENSMMUG00000004329	solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]	-	1.215733185	0.000361965	0.002180836
ENSMMUG00000004437	OTU deubiquitinase 4 [Source:VGNC Symbol;Acc:VGNC:75675]	-	-1.21486813	0.000346842	0.002107284
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	-	1.214858969	1.82E-06	2.10E-05
ENSMMUG000000056196		-	1.214445034	0.000630495	0.003533702
ENSMMUG000000044214		-	1.214419129	4.73E-05	0.000379979
ENSMMUG00000008539	uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]	-	1.214399057	2.79E-05	0.000239629
ENSMMUG00000020928	nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]	-	1.214379409	0.000999234	0.005219544
ENSMMUG00000007421	zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]	-	1.213135675	0.00012394	0.000870483
ENSMMUG000000032306	zinc finger FYVE-type containing 28 [Source:NCBI gene;Acc:720600]	-	1.210572237	0.00702471	0.026509277
ENSMMUG000000064337	nectin cell adhesion molecule 4 [Source:NCBI gene;Acc:719843]	-	1.210445588	8.47E-05	0.000630578
ENSMMUG00000020690	erythrocyte membrane protein band 4.1 like 1 [Source:VGNC Symbol;Acc:VGNC:72231]	-	1.210421563	2.62E-05	0.000226572
ENSMMUG00000020004	Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]	-	1.209131339	1.14E-05	0.000107841
ENSMMUG00000010944	GATA binding protein 6 [Source:VGNC Symbol;Acc:VGNC:72891]	-	1.208416934	0.001702129	0.008131253
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	-	1.207937035	4.85E-07	6.33E-06
ENSMMUG00000004760	CDK5 regulatory subunit associated protein 3 [Source:VGNC Symbol;Acc:VGNC:71015]	-	1.206026215	0.007286966	0.027314456
ENSMMUG00000010978	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]	-	1.205491346	1.92E-05	0.000172072
ENSMMUG00000022631	ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]	-	1.204629239	0.004444429	0.018239224
ENSMMUG00000008546	cyclin D2 [Source:NCBI gene;Acc:710379]	-	1.204327887	0.002916435	0.012783846
ENSMMUG00000008155	POU class 2 homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76223]	-	1.204208962	0.001436857	0.007055699
ENSMMUG000000060547	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-1.20295914	0.002718851	0.012037968
ENSMMUG000000052070	caudal type homeobox 2 [Source:NCBI gene;Acc:711094]	-	-1.20295631	0.006375695	0.024565411
ENSMMUG000000064507	beta-1,3-galactosyltransferase 4 [Source:NCBI gene;Acc:718178]	-	1.202461645	0.013173357	0.04419043
ENSMMUG00000015414	family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]	-	1.202274721	0.000950271	0.005020564

ENSMMUG00000023811	boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]	-	1.202154019	0.000746568	0.004085516
ENSMMUG00000063482		-	1.201981525	0.010608464	0.037084367
ENSMMUG00000009310	myelin transcription factor 1 like [Source:NCBI gene;Acc:706914]	-	1.201577288	0.000244635	0.001557125
ENSMMUG00000055885	napsin-A [Source:NCBI gene;Acc:719235]	-	1.200184661	0.008830083	0.031996034
ENSMMUG00000013183	F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]	-	1.198793457	0.000104776	0.000752222
ENSMMUG00000014140	peroxisomal biogenesis factor 26 [Source:NCBI gene;Acc:710470]	-	1.196477334	0.014456274	0.047648718
ENSMMUG00000062676		-	1.196099801	0.001866809	0.008784435
ENSMMUG00000012576	sorting nexin 6 [Source:NCBI gene;Acc:693626]	-	1.195224518	0.009193164	0.03307818
ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]	-	1.195209427	0.000186186	0.001244381
ENSMMUG00000015189	RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]	-	-1.1951405	0.002795808	0.01232542
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]	-	1.193622938	6.10E-08	9.48E-07
ENSMMUG00000053760		-	1.193261333	0.00185527	0.008743531
ENSMMUG00000046282		-	1.193043059	7.62E-08	1.16E-06
ENSMMUG00000018625	NIPA like domain containing 1 [Source:NCBI gene;Acc:704998]	-	1.192068089	0.000227272	0.001467895
ENSMMUG00000011047	S-phase cyclin A associated protein in the ER [Source:VGNC Symbol;Acc:VGNC:77006]	-	1.190392016	0.000881071	0.00470632
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	-	1.189691402	1.40E-07	2.03E-06
ENSMMUG00000021385	carbonic anhydrase 14 [Source:VGNC Symbol;Acc:VGNC:70489]	-	1.189084347	7.74E-06	7.61E-05
ENSMMUG00000022624	putative speedy protein E16 [Source:NCBI gene;Acc:718058]	-	1.188439053	0.000687417	0.003811024
ENSMMUG00000043504		-	1.187631114	5.11E-05	0.000407746
ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]	-	1.186753717	0.000820013	0.004438035
ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]	-	1.186068934	0.002476804	0.01111442
ENSMMUG00000063747		-	1.185043377	0.006803325	0.025940884
ENSMMUG00000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]	-	1.185007338	2.88E-05	0.000246155
ENSMMUG00000009519	WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]	-	1.184150295	0.000997454	0.005214675
ENSMMUG00000002497	zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]	-	1.183988465	0.001885845	0.008867221
ENSMMUG00000018657	dedicator of cytokinesis 9 [Source:VGNC Symbol;Acc:VGNC:71835]	-	1.183780565	0.000254618	0.001608085
ENSMMUG00000014438	piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]	-	1.183226197	9.73E-06	9.38E-05
ENSMMUG00000023396	hypocretin receptor 1 [Source:VGNC Symbol;Acc:VGNC:73356]	-	1.180821231	0.000339363	0.002066951
ENSMMUG00000021308	chromosome 9 C10orf71 homolog [Source:NCBI gene;Acc:710332]	-	1.180588155	0.001356611	0.00672343

ENSMMUG00000002879	GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]	1.180565651	7.00E-07	8.85E-06
ENSMMUG00000002032	exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]	1.180539696	0.005821104	0.022785731
ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]	1.180498912	0.001278926	0.006397752
ENSMMUG00000000353	putative methyltransferase-like protein 21E pseudogene [Source:NCBI gene;Acc:707949]	1.179930735	0.000986774	0.005174247
ENSMMUG00000005888	tetratricopeptide repeat domain 13 [Source:VGNC Symbol;Acc:VGNC:79588]	1.179423182	4.41E-05	0.000356853
ENSMMUG00000015168	transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]	-1.17928388	0.00195269	0.009129141
ENSMMUG00000000718	ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]	-1.17892887	0.001282799	0.006409304
ENSMMUG000000053454	Ras like without CAAX 1 [Source:NCBI gene;Acc:717985]	1.178662376	0.002161053	0.00991841
ENSMMUG00000023125	XPC complex subunit, DNA damage recognition and repair factor [Source:VGNC Symbol;Acc:VGNC:78809]	1.176273354	0.005318838	0.021211497
ENSMMUG00000004954	apoptosis inducing factor mitochondria associated 1 [Source:VGNC Symbol;Acc:VGNC:69820]	1.175707189	9.97E-05	0.000720593
ENSMMUG00000008919	RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]	1.175620947	0.000754222	0.004120062
ENSMMUG00000008795	polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]	1.175278926	0.000100373	0.000724417
ENSMMUG00000022762	OMA1 zinc metallopeptidase [Source:VGNC Symbol;Acc:VGNC:75485]	1.174721275	0.003424795	0.01469768
ENSMMUG00000031202	RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]	1.173779238	0.001702198	0.008131253
ENSMMUG00000022632	ubiquitin-fold modifier conjugating enzyme 1 [Source:VGNC Symbol;Acc:VGNC:79643]	1.171981116	0.006823545	0.025965385
ENSMMUG00000016475	M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]	1.171854517	2.30E-06	2.58E-05
ENSMMUG00000005048	MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]	1.171077163	2.01E-05	0.000178329
ENSMMUG00000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	1.170467457	1.55E-05	0.000142202
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	-1.17027115	0.000728456	0.004000647
ENSMMUG00000023398	collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]	1.168960337	1.58E-05	0.000144505
ENSMMUG00000009838	COP9 signalosome subunit 2 [Source:VGNC Symbol;Acc:VGNC:71376]	1.168422771	0.006807696	0.025940884
ENSMMUG00000009615	IMP U3 small nucleolar ribonucleoprotein 4 [Source:VGNC Symbol;Acc:VGNC:73689]	-1.16817974	3.67E-06	3.91E-05
ENSMMUG00000013188	serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]	1.168033969	5.83E-09	1.09E-07
ENSMMUG00000056220	follistatin like 3 [Source:NCBI gene;Acc:721100]	1.167741947	0.000319164	0.001964366
ENSMMUG00000056769	C-C motif chemokine receptor 1 [Source:VGNC Symbol;Acc:VGNC:70737]	1.165694833	0.000941609	0.0049842
ENSMMUG00000057852		1.164318413	0.004617857	0.018818993
ENSMMUG00000005365	peroxisomal biogenesis factor 3 [Source:VGNC Symbol;Acc:VGNC:75951]	1.162557554	0.000246523	0.001566709
ENSMMUG00000021344	interleukin 33 [Source:VGNC Symbol;Acc:VGNC:73606]	1.161094857	0.002094484	0.009699814
ENSMMUG00000049484		1.160579919	0.000266952	0.001675786
ENSMMUG00000004849	casein beta [Source:VGNC Symbol;Acc:VGNC:71523]	1.160527562	0.005554301	0.022000618

ENSMMUG00000015566	holocarboxylase synthetase [Source:VGNC Symbol;Acc:VGNC:73477]	1.160503544	1.00E-05	9.61E-05
ENSMMUG00000019856	olfactory receptor 2F2-like [Source:NCBI gene;Acc:100428924]	1.159445058	0.004511707	0.018453707
ENSMMUG00000002038	cell migration inducing hyaluronidase 1 [Source:VGNC Symbol;Acc:VGNC:71130]	1.158498203	0.001313529	0.006541565
ENSMMUG00000004362	Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]	1.158454042	0.000417987	0.002468753
ENSMMUG00000019566	hemoglobin subunit alpha 1 [Source:NCBI gene;Acc:701930]	-1.15791677	0.001102753	0.005649828
ENSMMUG00000006705	FRY like transcription coactivator [Source:VGNC Symbol;Acc:VGNC:72803]	1.156162665	9.37E-05	0.000685965
ENSMMUG00000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	1.155745004	1.47E-06	1.73E-05
ENSMMUG00000020418	diacylglycerol kinase beta [Source:VGNC Symbol;Acc:VGNC:71782]	1.155077557	0.005143393	0.02066605
ENSMMUG00000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]	1.154692437	1.18E-06	1.42E-05
ENSMMUG00000015737	phosphatidylinositol glycan anchor biosynthesis class A [Source:VGNC Symbol;Acc:VGNC:75984]	1.154367131	8.61E-05	0.00063926
ENSMMUG00000042798		1.153265559	0.000273813	0.001712689
ENSMMUG00000008396	methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]	1.152433295	7.64E-07	9.56E-06
ENSMMUG00000053036		1.151719291	0.000412847	0.00244074
ENSMMUG00000006454	kelch like family member 18 [Source:VGNC Symbol;Acc:VGNC:74154]	-1.15143964	0.004776557	0.01935734
ENSMMUG00000012250	lactase [Source:VGNC Symbol;Acc:VGNC:74244]	-1.15140661	0.010562212	0.036964735
ENSMMUG00000001386	neurotrophic receptor tyrosine kinase 3 [Source:VGNC Symbol;Acc:VGNC:75542]	1.151176736	0.010437245	0.036600335
ENSMMUG000000065128	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.150913396	0.000614284	0.003455451
ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]	1.149195386	0.011948246	0.040725429
ENSMMUG00000008917	S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]	1.148430525	0.000137661	0.000951629
ENSMMUG00000023116	LIM domain binding 2 [Source:VGNC Symbol;Acc:VGNC:74246]	1.147888194	0.000120855	0.000851739
ENSMMUG00000045497	complement factor H [Source:NCBI gene;Acc:717346]	-1.14681225	0.014979557	0.049031621
ENSMMUG00000015987	Ras and Rab interactor 1 [Source:VGNC Symbol;Acc:VGNC:76769]	1.145410865	0.000662937	0.003690287
ENSMMUG00000002007	kelch domain containing 9 [Source:NCBI gene;Acc:719863]	1.144767957	0.009781487	0.034777047
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	1.144284257	2.71E-06	2.98E-05
ENSMMUG000000059153		1.144214587	0.004376944	0.017998334
ENSMMUG00000000350	basic, immunoglobulin-like variable motif containing [Source:NCBI gene;Acc:100426213]	1.144199338	0.000451387	0.002646946
ENSMMUG00000014727	NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]	1.143725166	0.000607714	0.003423197
ENSMMUG00000059986		1.142476791	0.002061597	0.009572756
ENSMMUG00000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.142414868	0.000378965	0.002265496
ENSMMUG00000006268	junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]	1.142298885	8.91E-05	0.000656432

ENSMMUG00000049295	GTPase, IMAP family member 5 [Source:NCBI gene;Acc:713835]	-	1.142030131	0.000195788	0.001296492
ENSMMUG00000020954	cell division cycle 25A [Source:VGNC Symbol;Acc:VGNC:70794]	-	1.141726161	0.000574704	0.003267198
ENSMMUG00000018073	ligand dependent nuclear receptor corepressor like [Source:NCBI gene;Acc:715285]	-	1.141703192	0.001128803	0.005756894
ENSMMUG00000001876	phosphoinositide-3-kinase adaptor protein 1 [Source:VGNC Symbol;Acc:VGNC:75891]	-	1.141379406	0.001368861	0.00677049
ENSMMUG00000062339	endogenous retrovirus group K member 25 Env polyprotein-like [Source:NCBI gene;Acc:114677579]	-	1.139520442	0.003687045	0.015653701
ENSMMUG00000008781	BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]	-	1.139347019	0.000411228	0.002432341
ENSMMUG00000013233	collagen type IV alpha 4 chain [Source:VGNC Symbol;Acc:VGNC:71299]	-	1.139002503	0.004041749	0.016902733
ENSMMUG00000013235	collagen type IV alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:81375]	-	-1.13867993	0.000509961	0.002952395
ENSMMUG00000023401	adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]	-	1.137724235	0.000209498	0.001369652
ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]	-	1.137189492	0.00032476	0.001992823
ENSMMUG00000019250	solute carrier family 25 member 27 [Source:VGNC Symbol;Acc:VGNC:77543]	-	1.136766556	4.64E-05	0.000373451
ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]	-	1.135805973	7.09E-05	0.000542253
ENSMMUG00000056962		-	1.134385477	0.002630002	0.011682455
ENSMMUG00000059617		-	1.133826351	0.001673987	0.008008945
ENSMMUG00000031296	caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]	-	1.133338659	0.001293609	0.006451119
ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]	-	-1.13311914	0.000110294	0.000786327
ENSMMUG00000048077	ataxin 1 like [Source:NCBI gene;Acc:709805]	-	1.130439096	0.000523556	0.003018304
ENSMMUG00000059400		-	1.128534868	0.00010306	0.000742066
ENSMMUG00000022636	GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]	-	1.128335313	0.011120624	0.038457031
ENSMMUG00000062642		-	1.127710014	0.002163075	0.009923985
ENSMMUG00000005028	phosphodiesterase 4C [Source:NCBI gene;Acc:720171]	-	1.127420873	0.001442192	0.007076238
ENSMMUG00000010171	proline-serine-threonine phosphatase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:76459]	-	1.125221109	1.11E-05	0.000105498
ENSMMUG00000061779		-	1.122624585	0.000401628	0.002384737
ENSMMUG00000048232	MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]	-	1.119112292	6.64E-05	0.000511452
ENSMMUG00000033290	mml-mir-643 [Source:miRBase;Acc:MI0007886]	-	1.117156983	0.000521997	0.003012145
ENSMMUG00000015371	microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]	-	1.115149002	0.002221849	0.010155727
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	-	-1.11261342	2.67E-05	0.000229612
ENSMMUG00000002244	early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]	-	1.111661046	0.000151748	0.001033889
ENSMMUG00000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]	-	1.111001271	0.001045646	0.005409106

ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	-	1.110833012	3.23E-06	3.50E-05
ENSMMUG00000029927	ADAM metalloproteinase domain 11 [Source:VGNC Symbol;Acc:VGNC:69466]	-	1.110438303	0.005311262	0.02119504
ENSMMUG00000057627		-	1.109696532	0.001859216	0.008755412
ENSMMUG00000011335	Fc receptor like 6 [Source:VGNC Symbol;Acc:VGNC:72602]	-	1.107960281	1.26E-07	1.84E-06
ENSMMUG00000002003	upstream transcription factor 1 [Source:NCBI gene;Acc:719835]	-	1.107493456	0.00012848	0.000895719
ENSMMUG00000012091	thioredoxin reductase 1 [Source:VGNC Symbol;Acc:VGNC:78679]	-	1.106581242	7.71E-05	0.000580502
ENSMMUG00000057531	mitochondrial ribosomal protein S11 [Source:NCBI gene;Acc:697743]	-	1.106348527	0.013303129	0.044504289
ENSMMUG00000053789		-	-1.10603263	0.000190471	0.001268875
ENSMMUG00000054817	immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]	-	1.105800766	0.010329598	0.036314211
ENSMMUG00000021171	apolipoprotein B mRNA editing enzyme catalytic subunit 2 [Source:VGNC Symbol;Acc:VGNC:69986]	-	1.103239731	0.000676805	0.003762362
ENSMMUG00000004560	crystallin lambda 1 [Source:VGNC Symbol;Acc:VGNC:71433]	-	1.102969862	0.001126146	0.005745728
ENSMMUG00000061295	PDZ domain containing 11 [Source:NCBI gene;Acc:695458]	-	1.102623204	0.007531167	0.028101266
ENSMMUG00000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	-	-1.1021606	9.50E-07	1.17E-05
ENSMMUG00000047370	IgLON family member 5 [Source:NCBI gene;Acc:719890]	-	1.098605097	0.014328983	0.047317981
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	-	1.098517108	0.000259798	0.001635852
ENSMMUG00000010405	family with sequence similarity 171 member B [Source:VGNC Symbol;Acc:VGNC:72404]	-	1.098384329	0.003848575	0.016249687
ENSMMUG00000003949	cholinergic receptor nicotinic alpha 10 subunit [Source:NCBI gene;Acc:718133]	-	1.097471214	0.003996779	0.016754573
ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]	-	1.097046981	0.000239955	0.001533691
ENSMMUG00000018898	nuclear receptor subfamily 2 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75508]	-	1.094144839	0.015297191	0.049872088
ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]	-	-1.09402518	0.00122906	0.006183882
ENSMMUG00000018777	regulation of nuclear pre-mRNA domain containing 1A [Source:VGNC Symbol;Acc:VGNC:77103]	-	1.093934662	0.000316129	0.001950572
ENSMMUG00000012338	G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]	-	-1.09195478	0.000167401	0.001127411
ENSMMUG00000012601	RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]	-	1.091304117	5.61E-05	0.000442747
ENSMMUG00000008213	reticulocalbin 2 [Source:VGNC Symbol;Acc:VGNC:76887]	-	1.090303989	0.011091191	0.038400516
ENSMMUG00000007742	potassium voltage-gated channel subfamily Q member 1 [Source:VGNC Symbol;Acc:VGNC:82168]	-	1.088708978	0.005656281	0.022303928
ENSMMUG00000020294	phosphoinositide-3-kinase regulatory subunit 4 [Source:VGNC Symbol;Acc:VGNC:84060]	-	1.088033797	0.006732326	0.025713804
ENSMMUG00000063703		-	-1.0865202	0.011638134	0.039838311
ENSMMUG00000062527		-	1.086370512	3.34E-06	3.60E-05
ENSMMUG00000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	-	1.086310976	1.38E-06	1.64E-05
ENSMMUG00000060971		-	1.086040479	0.013413666	0.044800914

ENSMMUG00000022044	scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]	-	1.085787865	9.25E-05	0.000679297
ENSMMUG00000014702	TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]	-	1.084936103	0.00034402	0.002091171
ENSMMUG00000055447	MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]	-	-1.08467283	0.000157407	0.001066535
ENSMMUG00000060894	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.083812632	0.002697676	0.011957135
ENSMMUG00000002709	G protein-coupled receptor class C group 5 member B [Source:VGNC Symbol;Acc:VGNC:72934]	-	1.082167721	9.50E-05	0.000693881
ENSMMUG00000056280	G protein subunit alpha i2 [Source:NCBI gene;Acc:703780]	-	1.081925671	0.002359834	0.010701308
ENSMMUG00000006561	tRNA selenocysteine 1 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79885]	-	1.081223169	0.007976769	0.029486457
ENSMMUG00000031224	casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]	-	1.080745827	0.002193962	0.010043198
ENSMMUG00000064075	ring finger protein 41 [Source:NCBI gene;Acc:711969]	-	1.080397287	0.006414325	0.024667857
ENSMMUG00000000662	guanylate-binding protein 1 [Source:NCBI gene;Acc:694538]	-	1.080064716	4.22E-06	4.44E-05
ENSMMUG00000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]	-	1.079784154	0.002022388	0.009404907
ENSMMUG00000003051	COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]	-	1.079526317	1.97E-05	0.000174923
ENSMMUG00000015577	RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]	-	1.077809616	0.008746231	0.031767119
ENSMMUG00000015203	golgi reassembly stacking protein 2 [Source:VGNC Symbol;Acc:VGNC:72957]	-	1.077651973	0.009307785	0.033353347
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	-	1.076964332	2.26E-06	2.54E-05
ENSMMUG00000021760	zinc finger protein 79 [Source:NCBI gene;Acc:700961]	-	1.075430869	0.000243128	0.001549139
ENSMMUG00000054625		-	1.074942135	0.00015072	0.001027457
ENSMMUG00000028863	WIZ zinc finger [Source:VGNC Symbol;Acc:VGNC:79901]	-	1.074872175	0.01325191	0.044386703
ENSMMUG00000004754	intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]	-	1.073300436	0.00192678	0.009035502
ENSMMUG00000061396	kallikrein related peptidase 6 [Source:NCBI gene;Acc:719776]	-	1.072149333	0.005979325	0.023271653
ENSMMUG00000001849	interleukin 5 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73731]	-	1.072022287	0.009605274	0.034219832
ENSMMUG00000054112		-	1.070381981	2.65E-06	2.93E-05
ENSMMUG00000003468	growth arrest and DNA damage inducible beta [Source:VGNC Symbol;Acc:VGNC:72864]	-	1.069916375	0.00142308	0.006999229
ENSMMUG00000014540	acylaminoacyl-peptide hydrolase [Source:VGNC Symbol;Acc:VGNC:69982]	-	1.069203221	0.006786817	0.025897784
ENSMMUG00000048823		-	1.068024005	0.002374466	0.010749378
ENSMMUG00000021806	vestigial like family member 4 [Source:VGNC Symbol;Acc:VGNC:79755]	-	1.067867614	0.003804416	0.016068756
ENSMMUG00000021808	cryptochrome circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:71499]	-	1.067701729	0.000140382	0.000968805
ENSMMUG00000060319	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.066175084	0.008085186	0.029793486
ENSMMUG00000022293	FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]	-	1.065058462	7.23E-06	7.17E-05

ENSMMUG00000017076	tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]	-	1.063811955	0.001201554	0.006068862
ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]	-	1.062213648	0.002970477	0.012988307
ENSMMUG00000054737		-	1.061633519	5.05E-06	5.21E-05
ENSMMUG00000000244	coagulation factor XIII B chain [Source:VGNC Symbol;Acc:VGNC:72463]	-	-1.06124896	0.00249739	0.01119096
ENSMMUG00000008542	DEAH-box helicase 32 (putative) [Source:NCBI gene;Acc:695919]	-	1.059490607	0.002288293	0.010419502
ENSMMUG00000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]	-	1.056590553	1.78E-05	0.000161352
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]	-	1.056145793	1.38E-06	1.64E-05
ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]	-	1.055953927	2.08E-06	2.36E-05
ENSMMUG00000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	-	1.055891279	8.56E-05	0.000636038
ENSMMUG00000010748	transient receptor potential cation channel subfamily A member 1 [Source:VGNC Symbol;Acc:VGNC:78429]	-	-1.05573745	0.012633803	0.042683364
ENSMMUG00000052496		-	1.054660335	0.000217005	0.001414592
ENSMMUG00000043809	caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]	-	1.054355997	2.00E-05	0.000177444
ENSMMUG00000002894	dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]	-	1.053679552	0.00757127	0.0282252
ENSMMUG00000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.053412177	0.002406284	0.010861416
ENSMMUG00000011986	chibby family member 2 [Source:VGNC Symbol;Acc:VGNC:78029]	-	1.052464707	0.014714919	0.048332728
ENSMMUG00000017333	CD244 molecule [Source:VGNC Symbol;Acc:VGNC:70821]	-	-1.04817522	0.004548388	0.01859027
ENSMMUG00000062667	leucine rich repeat and fibronectin type III domain containing 3 [Source:NCBI gene;Acc:711565]	-	1.046771641	0.005644777	0.022280011
ENSMMUG00000003221	DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]	-	1.044975635	0.004811203	0.019484183
ENSMMUG00000008459	pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]	-	1.042620435	0.011212785	0.038690719
ENSMMUG00000064448		-	1.041828787	0.005318021	0.021211497
ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]	-	1.041687127	7.05E-09	1.30E-07
ENSMMUG00000006755	tubulin tyrosine ligase like 4 [Source:VGNC Symbol;Acc:VGNC:79758]	-	1.041679937	0.006975643	0.026348381
ENSMMUG00000009394	sestrin 3 [Source:VGNC Symbol;Acc:VGNC:77291]	-	1.041538893	6.58E-06	6.59E-05
ENSMMUG00000018634	methionine adenosyltransferase 1A [Source:VGNC Symbol;Acc:VGNC:74663]	-	1.040032223	0.003964515	0.016636344
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	-	1.039728798	6.50E-07	8.25E-06
ENSMMUG00000002912	TLE family member 6, subcortical maternal complex member [Source:VGNC Symbol;Acc:VGNC:79879]	-	-1.03815363	0.010355038	0.036368015
ENSMMUG00000030401	gem nuclear organelle associated protein 4 [Source:VGNC Symbol;Acc:VGNC:72723]	-	-1.03727163	0.009453396	0.033788964
ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]	-	1.036094066	0.00126015	0.006314107
ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	-	1.036017695	1.34E-05	0.000124963
ENSMMUG00000002183	oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]	-	1.035175891	0.002321808	0.010549119

ENSMMUG00000023226	RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]	-	1.034204122	8.15E-05	0.000608884
ENSMMUG00000006493	ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]	-	1.033732361	5.66E-05	0.000445337
ENSMMUG000000057215		-	1.033550436	0.014932825	0.048917738
ENSMMUG000000055233	PRAME family member 17-like [Source:NCBI gene;Acc:100427847]	-	1.032652947	0.000585376	0.003318659
ENSMMUG000000065301		-	1.031787205	0.002155147	0.009894998
ENSMMUG000000053482	protocadherin 20 [Source:NCBI gene;Acc:696607]	-	1.030678739	0.00943729	0.033758363
ENSMMUG00000008004	transmembrane immune signaling adaptor TYROBP [Source:NCBI gene;Acc:574207]	-	1.029341548	0.000122634	0.000862295
ENSMMUG000000049640		-	1.027456541	0.003012155	0.013147159
ENSMMUG000000053231		-	1.025942598	0.009972838	0.03530419
ENSMMUG000000029263	polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]	-	1.022932944	5.05E-05	0.000403647
ENSMMUG000000049939		-	1.022685094	3.70E-05	0.000306277
ENSMMUG000000022570	nuclear transcription factor Y subunit beta [Source:NCBI gene;Acc:700451]	-	1.020663579	0.00087665	0.004686781
ENSMMUG000000046520	small integral membrane protein 13 [Source:NCBI gene;Acc:703387]	-	1.018565659	0.012775218	0.043054622
ENSMMUG000000042154	ankyrin repeat domain 66 [Source:VGNC Symbol;Acc:VGNC:81024]	-	1.018565353	4.27E-05	0.000346543
ENSMMUG000000010440	adenylate cyclase 8 [Source:VGNC Symbol;Acc:VGNC:69516]	-	1.018447473	0.004519023	0.018477481
ENSMMUG000000038569	5',3'-nucleotidase, mitochondrial [Source:NCBI gene;Acc:698591]	-	1.017872069	0.007350497	0.027519024
ENSMMUG000000002533	progesterone immunomodulatory binding factor 1 [Source:NCBI gene;Acc:694190]	-	1.016959407	0.012488485	0.042250474
ENSMMUG000000065322	ATP synthase peripheral stalk-membrane subunit b [Source:NCBI gene;Acc:704072]	-	1.015246449	8.87E-05	0.000653813
ENSMMUG000000022715	adenosylhomocysteinase like 1 [Source:VGNC Symbol;Acc:VGNC:81350]	-	-1.01464095	0.000118969	0.000839409
ENSMMUG000000018282	interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]	-	1.013044597	0.0010342	0.005368604
ENSMMUG000000019756	NFKB inhibitor delta [Source:VGNC Symbol;Acc:VGNC:75179]	-	1.012868762	0.004726294	0.019197252
ENSMMUG000000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	-	1.011156147	1.56E-05	0.000143525
ENSMMUG000000001065	olfactory receptor, family 51, subfamily A, member 4 [Source:NCBI gene;Acc:100425539]	-	1.009118475	0.007919964	0.029320567
ENSMMUG000000017886	F-box protein 10 [Source:NCBI gene;Acc:718443]	-	1.008127296	0.008040684	0.02966028
ENSMMUG000000007692	apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]	-	1.008010215	7.29E-05	0.000554575
ENSMMUG000000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	-	1.007140965	0.001095461	0.005621842
ENSMMUG0000000054290		-	1.005347199	0.013531355	0.045120425
ENSMMUG0000000057544		-	1.005027343	0.0114955	0.039444775
ENSMMUG000000007310	solute carrier family 25 member 12 [Source:VGNC Symbol;Acc:VGNC:77430]	-	1.004264509	0.001391551	0.00686614

ENSMMUG0000009775	caveolae associated protein 4 [Source:NCBI gene;Acc:714379]	1.004179053	0.001628241	0.007829698
ENSMMUG00000011319	potassium channel tetramerization domain containing 15 [Source:VGNC Symbol;Acc:VGNC:73894]	-1.00416455	0.001549326	0.007504264
ENSMMUG00000008713	myosin binding protein H like [Source:NCBI gene;Acc:698183]	1.003319305	4.26E-07	5.62E-06
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]	1.000172269	0.000131557	0.000911995
ENSMMUG00000002777	protein tyrosine phosphatase 4A1 [Source:VGNC Symbol;Acc:VGNC:83452]	0.999802456	0.000336892	0.002055978
ENSMMUG00000021837	seryl-tRNA synthetase 1 [Source:NCBI gene;Acc:695046]	0.999025261	4.91E-06	5.08E-05
ENSMMUG00000058605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.995715808	0.002576758	0.011495622
ENSMMUG00000065091	myelin protein zero like 2 [Source:NCBI gene;Acc:699330]	0.994425517	3.64E-06	3.89E-05
ENSMMUG00000056662		-0.99353231	0.013620709	0.045344564
ENSMMUG00000003876	zinc finger and BTB domain containing 22 [Source:VGNC Symbol;Acc:VGNC:78893]	0.993116528	0.00087035	0.004657152
ENSMMUG00000019267	interleukin 17 receptor B [Source:VGNC Symbol;Acc:VGNC:73618]	0.986943614	0.007240167	0.027163888
ENSMMUG00000059100		0.986850593	0.000386088	0.002306956
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	-0.98676505	0.000633965	0.003551535
ENSMMUG00000051793	gamma-aminobutyric acid type A receptor beta3 subunit [Source:NCBI gene;Acc:711754]	0.985370904	0.002842189	0.012502985
ENSMMUG00000021112	epithelial splicing regulatory protein 1 [Source:VGNC Symbol;Acc:VGNC:72358]	0.984492008	0.003129533	0.013587102
ENSMMUG00000058786	ligand of numb-protein X 2 [Source:NCBI gene;Acc:710660]	0.984360297	0.00231058	0.010506599
ENSMMUG00000023397	penta-EF-hand domain containing 1 [Source:NCBI gene;Acc:706038]	0.982626406	0.001021227	0.005314097
ENSMMUG00000058981	kinetochore localized astrin (SPAG5) binding protein [Source:NCBI gene;Acc:702753]	0.982264154	0.004358768	0.017947609
ENSMMUG00000004624	synaptojanin 1 [Source:VGNC Symbol;Acc:VGNC:78071]	0.982058112	0.000935902	0.004958264
ENSMMUG00000006340	solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]	0.981669268	0.000243699	0.001551971
ENSMMUG00000011809	platelet and endothelial cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:75938]	-0.97983685	6.01E-05	0.000469472
ENSMMUG00000002009	nitrilase 1 [Source:VGNC Symbol;Acc:VGNC:75351]	0.979304476	0.003588676	0.015262427
ENSMMUG00000012764	zinc finger protein 175 [Source:VGNC Symbol;Acc:VGNC:78856]	0.978777922	0.013015017	0.043778757
ENSMMUG00000026981	EGF like domain multiple 7 [Source:VGNC Symbol;Acc:VGNC:72079]	0.978085187	0.007995545	0.029529221
ENSMMUG00000050907		0.977542581	6.30E-05	0.000487492
ENSMMUG00000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	0.975926575	0.011307366	0.038940555
ENSMMUG00000017549	ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]	0.975791539	0.001853873	0.008740297
ENSMMUG00000018738	alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]	0.975459319	0.000199911	0.001316778
ENSMMUG00000063288		0.974200245	0.004247145	0.017594087
ENSMMUG00000014677	dynamin 2 [Source:VGNC Symbol;Acc:VGNC:71957]	0.973184541	0.003697785	0.015677639

ENSMMUG0000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	0.972447372	1.25E-06	1.49E-05
ENSMMUG0000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	0.971914837	0.002514694	0.011255682
ENSMMUG00000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	0.970961185	0.001725697	0.00822114
ENSMMUG00000015123	codanin 1 [Source:VGNC Symbol;Acc:VGNC:70788]	0.970474483	0.000368363	0.002213958
ENSMMUG00000020811	dual specificity tyrosine phosphorylation regulated kinase 4 [Source:NCBI gene;Acc:710999]	0.970400074	0.004597346	0.018760286
ENSMMUG00000008392	huntingtin [Source:VGNC Symbol;Acc:VGNC:73468]	0.969897967	4.12E-05	0.000336367
ENSMMUG00000051042		0.965716083	0.001064422	0.005490057
ENSMMUG00000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]	0.963956586	0.000542652	0.003115242
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	0.961919583	0.000306165	0.001896216
ENSMMUG00000017414	calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]	0.961615971	0.003210419	0.013889214
ENSMMUG00000055481	regulator of G protein signaling 16 [Source:NCBI gene;Acc:715599]	0.961323016	0.00847693	0.030981252
ENSMMUG00000052711		0.959918571	0.001650295	0.007915863
ENSMMUG00000003325	pyridoxamine 5'-phosphate oxidase [Source:VGNC Symbol;Acc:VGNC:76141]	-0.95950829	0.001707418	0.008146689
ENSMMUG00000064642		0.959322766	0.009494124	0.033902462
ENSMMUG00000017160	PHD finger protein 3 [Source:VGNC Symbol;Acc:VGNC:75975]	0.957420379	0.003067454	0.013350595
ENSMMUG00000011593	regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]	0.957280948	0.000318497	0.001961247
ENSMMUG00000018784	solute carrier family 39 member 6 [Source:VGNC Symbol;Acc:VGNC:77508]	0.956284061	2.33E-05	0.000204791
ENSMMUG00000014394	DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]	0.956017143	0.000492308	0.002863532
ENSMMUG00000013138	Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]	0.955477614	0.000713895	0.00394305
ENSMMUG00000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]	0.955342546	0.000626001	0.003511444
ENSMMUG00000009956	leucine rich repeat and sterile alpha motif containing 1 [Source:VGNC Symbol;Acc:VGNC:74353]	0.954912282	0.0054455	0.021618424
ENSMMUG00000033738	RNA, U6atac small nuclear 6, pseudogene [Source:HGNC Symbol;Acc:HGNC:46905]	0.953743225	0.001280766	0.006404352
ENSMMUG00000001074	unc-51 like kinase 4 [Source:VGNC Symbol;Acc:VGNC:82565]	0.953625627	0.00746268	0.027888051
ENSMMUG00000017351	stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]	0.953329381	0.001263236	0.006326991
ENSMMUG00000005463	bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]	0.951572167	0.001958192	0.009145
ENSMMUG00000017163	EGF like, fibronectin type III and laminin G domains [Source:VGNC Symbol;Acc:VGNC:72122]	0.951323732	0.000375311	0.002246933
ENSMMUG00000009126	solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]	0.951314192	0.001314724	0.006542217
ENSMMUG00000063721		0.950775972	7.17E-06	7.12E-05
ENSMMUG00000021942	ANKH inorganic pyrophosphate transport regulator [Source:VGNC Symbol;Acc:VGNC:69612]	0.950307922	0.003016649	0.013162097

ENSMMUG0000008941	DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]	-0.95024963	4.57E-06	4.76E-05
ENSMMUG00000052743	stearoyl-CoA desaturase 5 [Source:NCBI gene;Acc:694079]	0.950117733	0.007795634	0.028947472
ENSMMUG00000020912	spermine oxidase [Source:NCBI gene;Acc:718761]	0.949937703	0.004277087	0.01769427
ENSMMUG00000037975	solute carrier family 7 member 6 [Source:NCBI gene;Acc:702903]	0.949609468	0.011588171	0.039713483
ENSMMUG00000023450	tyrosylprotein sulfotransferase 2 [Source:VGNC Symbol;Acc:VGNC:78639]	0.949490651	0.011086854	0.038396314
ENSMMUG00000012677	lysine demethylase 4B [Source:VGNC Symbol;Acc:VGNC:73930]	0.949453607	0.005779122	0.022657477
ENSMMUG00000008423	septin 4 [Source:NCBI gene;Acc:714724]	-0.94776155	1.13E-05	0.000106817
ENSMMUG00000053348	PDZ domain containing 8 [Source:NCBI gene;Acc:709084]	0.947301414	0.005194609	0.020850914
ENSMMUG00000056693		0.945644504	1.97E-07	2.80E-06
ENSMMUG00000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]	0.945528866	0.000124116	0.000870722
ENSMMUG00000056257		0.945468383	0.011236239	0.03874989
ENSMMUG00000018791	molybdenum cofactor sulfurase [Source:VGNC Symbol;Acc:VGNC:74792]	0.944962186	0.013566736	0.045189365
ENSMMUG00000056785		0.944883688	0.005234085	0.020966594
ENSMMUG00000044344	vasorin [Source:NCBI gene;Acc:100426861]	0.944018596	0.008550385	0.031157067
ENSMMUG00000061967	carbohydrate sulfotransferase 4 [Source:NCBI gene;Acc:708116]	0.942854007	0.000921629	0.004895308
ENSMMUG00000011189	tousled like kinase 1 [Source:VGNC Symbol;Acc:VGNC:78367]	0.942313849	0.006078849	0.023576879
ENSMMUG00000017070	zinc finger and SCAN domain containing 29 [Source:VGNC Symbol;Acc:VGNC:79633]	0.940929512	0.000729428	0.004004197
ENSMMUG00000021782	LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]	0.938395103	0.001942765	0.009086195
ENSMMUG00000016522	neurolysin [Source:VGNC Symbol;Acc:VGNC:75183]	0.937292341	9.07E-05	0.00066706
ENSMMUG00000010589	nebulette [Source:VGNC Symbol;Acc:VGNC:75195]	0.936172015	0.000165754	0.001118154
ENSMMUG00000058948		0.934937385	0.000938142	0.004967991
ENSMMUG00000019887	synaptic vesicle glycoprotein 2C [Source:VGNC Symbol;Acc:VGNC:78252]	0.933067819	0.003940735	0.016564835
ENSMMUG00000007500	connector enhancer of kinase suppressor of Ras 2 [Source:VGNC Symbol;Acc:VGNC:71223]	0.932408979	0.007012853	0.02647266
ENSMMUG00000054107		0.932343572	0.013889994	0.04605393
ENSMMUG00000014451	ASXL transcriptional regulator 3 [Source:VGNC Symbol;Acc:VGNC:70152]	0.932018777	0.002867803	0.012597629
ENSMMUG00000002175	TPD52 like 3 [Source:HGNC Symbol;Acc:HGNC:23382]	0.931575708	0.005675486	0.022365307
ENSMMUG00000018284	mutS homolog 3 [Source:VGNC Symbol;Acc:VGNC:74932]	0.931107336	0.000391009	0.002329567
ENSMMUG00000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]	0.931096345	0.000229092	0.001478872
ENSMMUG00000055590		0.928678256	0.000220117	0.001430699

ENSMMUG00000051078		-0.92644635	0.010615269	0.037087058
ENSMMUG00000012331	solute carrier family 38 member 4 [Source:VGNC Symbol;Acc:VGNC:77484]	-0.92476154	0.012187182	0.041424958
		-		
ENSMMUG00000018281	interleukin 17 receptor E [Source:VGNC Symbol;Acc:VGNC:73623]	0.924131781	0.000900885	0.004799643
ENSMMUG00000015463	DNA polymerase epsilon, catalytic subunit [Source:NCBI gene;Acc:698023]	-0.9236601	0.001828065	0.008628551
		-		
ENSMMUG00000001978	adenosine monophosphate deaminase 1 [Source:VGNC Symbol;Acc:VGNC:69806]	0.923144739	0.000337304	0.002057472
		-		
ENSMMUG00000029265	zinc finger protein 598 [Source:NCBI gene;Acc:694129]	0.923099789	0.0020174	0.009388814
		-		
ENSMMUG00000061186		0.919024546	0.000799772	0.004341873
		-		
ENSMMUG00000018289	proline rich transmembrane protein 3 [Source:VGNC Symbol;Acc:VGNC:76324]	0.918798396	0.00023673	0.001517746
		-		
ENSMMUG00000064237		0.917412742	0.006843024	0.026010322
ENSMMUG00000047015	ral-GDS-related protein-like [Source:NCBI gene;Acc:106995524]	-0.916126	0.010778255	0.03750723
ENSMMUG00000018186	sosondowah ankyrin repeat domain family member B [Source:VGNC Symbol;Acc:VGNC:78033]	-0.91361188	5.80E-07	7.45E-06
		-		
ENSMMUG00000014610	ring finger protein 17 [Source:NCBI gene;Acc:708198]	0.912842092	1.60E-05	0.00014644
		-		
ENSMMUG00000023117	neurotrophic receptor tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:75541]	0.912126155	4.05E-06	4.28E-05
		-		
ENSMMUG00000012073	X antigen family member 1-like [Source:NCBI gene;Acc:106996044]	0.911979939	0.004250425	0.017595815
		-		
ENSMMUG00000012786	complement C1s [Source:VGNC Symbol;Acc:VGNC:70297]	0.910839665	2.94E-06	3.21E-05
		-		
ENSMMUG00000046237	4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]	0.908713093	0.001462256	0.007157542
		-		
ENSMMUG00000009922	mitochondrial calcium uniporter regulator 1 [Source:VGNC Symbol;Acc:VGNC:81471]	0.904804622	0.000569058	0.0032396
		-		
ENSMMUG00000013920	triggering receptor expressed on myeloid cells 2 [Source:VGNC Symbol;Acc:VGNC:79089]	0.903601439	0.012719996	0.042927367
		-		
ENSMMUG00000000464	polypyrimidine tract binding protein 3 [Source:VGNC Symbol;Acc:VGNC:76244]	0.903464973	0.000857677	0.004595339
		-		
ENSMMUG00000013093	uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]	0.902796299	2.66E-06	2.93E-05
		-		
ENSMMUG00000008672	ring finger protein 126 [Source:VGNC Symbol;Acc:VGNC:76791]	0.900898268	0.008949386	0.032371073
		-		
ENSMMUG00000009030	mitochondrial translational initiation factor 3 [Source:VGNC Symbol;Acc:VGNC:75040]	0.899397587	0.000159935	0.001082672
		-		
ENSMMUG00000003594	ubiquitin specific peptidase 13 [Source:VGNC Symbol;Acc:VGNC:78735]	0.897917379	0.000154841	0.001052046
		-		
ENSMMUG00000006754	tetratricopeptide repeat domain 4 [Source:VGNC Symbol;Acc:VGNC:78668]	0.896926132	0.007859116	0.029156775
		-		
ENSMMUG000000059753		0.894916309	0.002804949	0.012356858
		-		
ENSMMUG00000017276	nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]	0.892650594	0.015253375	0.049755635
		-		
ENSMMUG00000009461	SMAD specific E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77727]	0.892645182	3.72E-05	0.00030755
		-		
ENSMMUG00000040958	lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]	0.885184606	0.011100324	0.038410497
		-		
ENSMMUG00000002429	catalase [Source:VGNC Symbol;Acc:VGNC:70552]	0.884590626	0.001271485	0.006363119
		-		
ENSMMUG00000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]	0.883413131	0.000456675	0.002675404

ENSMMUG00000014926	epithelial stromal interaction 1 [Source:VGNC Symbol;Acc:VGNC:72053]	-	0.882233068	0.003041442	0.013251457
ENSMMUG00000065306		-	0.881783902	0.009247763	0.033226233
ENSMMUG00000055970		-	0.880788507	0.002623768	0.011658979
ENSMMUG00000018051	FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]	-	0.879551777	5.48E-07	7.08E-06
ENSMMUG00000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]	-	-0.87781781	0.011910514	0.040619348
ENSMMUG00000020784	centrosomal protein 126 [Source:NCBI gene;Acc:701911]	-	0.876006712	0.000990074	0.005186221
ENSMMUG00000043458	transmembrane protein 178A [Source:NCBI gene;Acc:714010]	-	0.875946641	0.011937999	0.040701787
ENSMMUG00000019805	dual specificity phosphatase 18 [Source:VGNC Symbol;Acc:VGNC:71858]	-	0.875352814	0.001106775	0.005665711
ENSMMUG00000007426	BMS1 ribosome biogenesis factor [Source:HGNC Symbol;Acc:HGNC:23505]	-	0.875261491	0.001754825	0.008317991
ENSMMUG00000008486	endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]	-	-0.87391181	0.004628872	0.018851381
ENSMMUG00000019841	leucine rich pentatricopeptide repeat containing [Source:VGNC Symbol;Acc:VGNC:82177]	-	-0.87254068	0.009247982	0.033226233
ENSMMUG00000013094	lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]	-	0.872434803	6.80E-05	0.000522244
ENSMMUG00000064983		-	-0.87227995	0.011880883	0.040552051
ENSMMUG00000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]	-	0.871627351	9.42E-05	0.000688622
ENSMMUG00000041976	zinc finger protein 780B [Source:NCBI gene;Acc:701034]	-	0.871385108	0.000553634	0.003166455
ENSMMUG00000001423	family with sequence similarity 214 member A [Source:VGNC Symbol;Acc:VGNC:72354]	-	-0.86934268	0.000421708	0.002489534
ENSMMUG00000054734		-	0.869037413	0.010591071	0.037044637
ENSMMUG00000004483	histidyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73346]	-	0.868814345	0.005521942	0.021886549
ENSMMUG00000023027	endo-beta-N-acetylglucosaminidase [Source:VGNC Symbol;Acc:VGNC:72099]	-	0.868248031	0.011405531	0.039212694
ENSMMUG00000019518	stromal cell derived factor 4 [Source:VGNC Symbol;Acc:VGNC:77092]	-	0.860788431	0.00926165	0.033265618
ENSMMUG00000004173	phosphofructokinase, liver type [Source:VGNC Symbol;Acc:VGNC:81737]	-	0.859627954	0.002018941	0.009392429
ENSMMUG00000007910	heat shock transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:81077]	-	0.859464621	0.00578244	0.022663256
ENSMMUG00000054590		-	0.859150033	0.011110002	0.038433166
ENSMMUG00000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]	-	0.858636556	0.000355182	0.002148398
ENSMMUG00000057137		-	-0.85775448	0.013857386	0.045970614
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]	-	-0.85705847	0.000921314	0.004895308
ENSMMUG00000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]	-	0.857017224	0.00023314	0.001498703
ENSMMUG00000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]	-	0.856859771	3.46E-06	3.72E-05
ENSMMUG00000012289	GLIPR1 like 1 [Source:VGNC Symbol;Acc:VGNC:81412]	-	0.856395706	0.010841059	0.037715102
ENSMMUG00000008313	zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]	-	0.856188736	5.34E-05	0.000424595
ENSMMUG00000046906		-	0.852588221	0.010170667	0.035880502

ENSMMUG00000062551		-	0.852394504	0.006651498	0.025460468
ENSMMUG00000003110	tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:78680]	-	0.852355532	0.002176473	0.009970565
ENSMMUG00000013466	tetratricopeptide repeat domain 39B [Source:VGNC Symbol;Acc:VGNC:79402]	-	0.852029268	8.68E-05	0.000643249
ENSMMUG00000022359	solute carrier family 38 member 2 [Source:VGNC Symbol;Acc:VGNC:77469]	-	0.849590092	0.012679025	0.042800849
ENSMMUG00000016539	abhydrolase domain containing 17A [Source:VGNC Symbol;Acc:VGNC:69543]	-	0.848899304	0.010183231	0.035914518
ENSMMUG00000010544	mucin 5B, oligomeric mucus/gel-forming [Source:VGNC Symbol;Acc:VGNC:75081]	-	0.847530967	0.000335687	0.002051682
ENSMMUG00000039869		-	0.845514104	0.010847122	0.037720469
ENSMMUG00000014314	ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]	-	0.845141191	0.001098173	0.005631058
ENSMMUG00000023002	adhesion G protein-coupled receptor F5 [Source:VGNC Symbol;Acc:VGNC:69471]	-	0.844998956	6.00E-05	0.000468791
ENSMMUG00000062457	pyridoxal kinase [Source:NCBI gene;Acc:713564]	-	0.844750086	0.013289217	0.044477351
ENSMMUG00000047974	aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]	-	0.842825034	0.003486539	0.014895046
ENSMMUG00000017700	exostosin like glycosyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:72452]	-	0.841887354	0.013107761	0.044018439
ENSMMUG00000022906	vascular cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:78761]	-	0.841604826	0.000251488	0.001594961
ENSMMUG00000012163	GTPase activating Rap/RanGAP domain like 3 [Source:VGNC Symbol;Acc:VGNC:72785]	-	0.840742789	0.010321535	0.036313242
ENSMMUG00000056466		-	0.840274621	0.005818019	0.022780908
ENSMMUG00000063474		-	0.840097628	0.001201823	0.006068862
ENSMMUG00000002005	Rho GTPase activating protein 30 [Source:NCBI gene;Acc:718236]	-	-0.83976544	0.000951242	0.005020564
ENSMMUG00000064514	keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]	-	0.839189655	0.000144981	0.000997183
ENSMMUG0000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]	-	0.839039823	0.001851142	0.00873077
ENSMMUG00000057338		-	0.837311606	0.006634831	0.025404582
ENSMMUG00000004113	major facilitator superfamily domain containing 4A [Source:VGNC Symbol;Acc:VGNC:74575]	-	0.836970342	0.001623798	0.007811392
ENSMMUG00000063666		-	0.836494213	0.013011756	0.043778757
ENSMMUG00000000978	cramped chromatin regulator homolog 1 [Source:NCBI gene;Acc:722473]	-	0.836411519	0.000223605	0.001447254
ENSMMUG00000005942	leucine carboxyl methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:74067]	-	0.833105338	7.90E-05	0.00059293
ENSMMUG00000020122	RAN binding protein 9 [Source:VGNC Symbol;Acc:VGNC:76475]	-	0.827608357	0.007166477	0.026920285
ENSMMUG00000007998	HIVEP zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:83427]	-	0.826876077	0.003469389	0.014842414
ENSMMUG00000002185	protein activator of interferon induced protein kinase EIF2AK2 [Source:VGNC Symbol;Acc:VGNC:76421]	-	0.824810912	0.001710019	0.008155934
ENSMMUG00000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	-	0.824616441	0.000589763	0.003332769
ENSMMUG00000058740		-	0.823080633	0.001404371	0.006918288

ENSMMUG00000020150	xin actin binding repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:78952]	-	0.814535228	3.55E-05	0.000295513
ENSMMUG00000003263	stromal antigen 1 [Source:VGNC Symbol;Acc:VGNC:77901]	-	0.813202463	0.000370467	0.002223343
ENSMMUG00000019760	karyopherin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:74203]	-	0.811897672	0.000430276	0.002531606
ENSMMUG00000022303	solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]	-	0.810172186	9.93E-06	9.55E-05
ENSMMUG00000018415	Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]	-	0.805528887	0.012008347	0.040907591
ENSMMUG00000053298		-	-0.804858	0.00218343	0.009998708
ENSMMUG00000021567	neurexophilin and PC-esterase domain family member 3 [Source:VGNC Symbol;Acc:VGNC:75476]	-	-0.80067882	2.67E-06	2.94E-05
ENSMMUG00000061085		-	0.799173806	0.000963441	0.005077364
ENSMMUG00000054417		-	0.798808264	0.000358284	0.002160777
ENSMMUG00000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]	-	0.798603866	0.011423419	0.039243782
ENSMMUG00000016716	zinc finger protein 821 [Source:VGNC Symbol;Acc:VGNC:79679]	-	0.796682014	0.01349359	0.045018923
ENSMMUG00000014388	spermatogenesis associated serine rich 1 [Source:VGNC Symbol;Acc:VGNC:77975]	-	0.796359023	0.00208909	0.009680848
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	-	-0.79378109	0.005237901	0.020970372
ENSMMUG00000064880		-	0.792812137	0.004023225	0.016848199
ENSMMUG00000017025	zinc finger CCCH-type containing 13 [Source:VGNC Symbol;Acc:VGNC:79248]	-	0.791139866	0.001545732	0.00749747
ENSMMUG00000008098	ubiquitin specific peptidase 34 [Source:VGNC Symbol;Acc:VGNC:79223]	-	0.790149517	0.002330901	0.010579433
ENSMMUG00000010689	fermitin family member 2 [Source:VGNC Symbol;Acc:VGNC:82144]	-	0.788666748	0.002674826	0.011871981
ENSMMUG00000009539	XPA binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78943]	-	0.788470464	0.000270749	0.001696982
ENSMMUG00000013601	chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]	-	0.786678552	0.001508593	0.007355066
ENSMMUG00000006713	cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]	-	0.786339991	0.007961561	0.029456817
ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	-	0.785592318	0.000721632	0.003973827
ENSMMUG00000002494	actinin alpha 3 [Source:NCBI gene;Acc:713811]	-	0.784644875	0.005704501	0.022436486
ENSMMUG00000021216	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]	-	0.784515232	0.002377733	0.010757486
ENSMMUG00000003273	basal cell adhesion molecule (Lutheran blood group) [Source:NCBI gene;Acc:714568]	-	0.780211844	0.004188435	0.017386037
ENSMMUG00000058044		-	0.779866672	0.002221835	0.010155727
ENSMMUG00000017677	chromosome 7 C14orf28 homolog [Source:VGNC Symbol;Acc:VGNC:70581]	-	-0.77948169	0.000548666	0.003143893
ENSMMUG00000055417		-	-0.7773429	0.004153677	0.017276768
ENSMMUG00000049326	GIPC PDZ domain containing family member 2 [Source:NCBI gene;Acc:707432]	-	0.776293828	0.006876075	0.026084519
ENSMMUG00000001432	t-SNARE domain containing 1 [Source:NCBI gene;Acc:701269]	-	0.776198361	0.004205344	0.017444441
ENSMMUG00000010939	rhopilin Rho GTPase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76779]	-	0.775395917	0.000739965	0.004051186

ENSMMUG00000021572	solute carrier family 39 member 9 [Source:VGNC Symbol;Acc:VGNC:77523]	-	0.774326813	0.007813507	0.028996323
ENSMMUG00000004400	Yip1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:79717]	-	-0.77049017	0.009911524	0.035137739
ENSMMUG00000030400	SH3 domain and tetratricopeptide repeats 1 [Source:NCBI gene;Acc:722649]	-	0.769464599	0.003522101	0.015026084
ENSMMUG000000056765		-	-0.76816026	0.001101356	0.005645025
ENSMMUG000000063348		-	0.767600124	0.013507829	0.045054201
ENSMMUG00000005334	phospholipase C gamma 2 [Source:VGNC Symbol;Acc:VGNC:76170]	-	0.766496165	0.002268963	0.010347989
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	-	0.765588944	0.000102446	0.000738083
ENSMMUG00000008422	trophinin [Source:NCBI gene;Acc:704512]	-	0.763931641	0.010775398	0.03750723
ENSMMUG00000001407	solute carrier family 5 member 11 [Source:VGNC Symbol;Acc:VGNC:77759]	-	0.763042679	2.43E-05	0.000211866
ENSMMUG000000065066	V-set and immunoglobulin domain containing 10 like 2 [Source:NCBI gene;Acc:717387]	-	0.759879252	0.003068679	0.013351197
ENSMMUG000000064353	fatty acid binding protein 3 [Source:NCBI gene;Acc:717237]	-	0.758129599	0.002900434	0.012722784
ENSMMUG000000059353	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]	-	0.755459998	0.001111777	0.005688945
ENSMMUG000000054264	pejvakin [Source:NCBI gene;Acc:708668]	-	0.751640156	0.014550585	0.047895351
ENSMMUG00000003567	DLG associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71850]	-	0.750415709	0.007426226	0.027768707
ENSMMUG00000003961	interferon alpha and beta receptor subunit 1 [Source:VGNC Symbol;Acc:VGNC:73566]	-	-0.7499958	0.012508062	0.042305061
ENSMMUG000000041338	eyes shut homolog [Source:HGNC Symbol;Acc:HGNC:21555]	-	0.746737045	0.000108705	0.000776349
ENSMMUG00000001362	vacuolar protein sorting 13 homolog C [Source:VGNC Symbol;Acc:VGNC:79399]	-	0.744681917	0.003570348	0.015200257
ENSMMUG000000004629	nucleolar protein 8 [Source:VGNC Symbol;Acc:VGNC:75237]	-	0.743499583	0.000127811	0.000892571
ENSMMUG000000049574	antizyme inhibitor 2-like [Source:NCBI gene;Acc:705256]	-	0.740445702	0.000364677	0.002195028
ENSMMUG000000004461	TBC1 domain family member 20 [Source:VGNC Symbol;Acc:VGNC:78132]	-	0.739281302	0.005697799	0.022426093
ENSMMUG000000008502	alkylglycerone phosphate synthase [Source:VGNC Symbol;Acc:VGNC:69747]	-	0.738534175	0.001041294	0.005397953
ENSMMUG000000001768	zinc finger protein 616 [Source:NCBI gene;Acc:719902]	-	0.732984715	0.006972043	0.026348381
ENSMMUG000000003530	protein phosphatase 2 regulatory subunit B'gamma [Source:VGNC Symbol;Acc:VGNC:76279]	-	0.729954765	0.002170402	0.009950172
ENSMMUG00000018279	adaptor related protein complex 5 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69868]	-	0.724338248	0.003852063	0.016258829
ENSMMUG000000061092	defensin beta 125 [Source:HGNC Symbol;Acc:HGNC:18105]	-	0.723044044	0.008542443	0.031146595
ENSMMUG00000017033	lymphocyte cytosolic protein 1 [Source:VGNC Symbol;Acc:VGNC:74242]	-	0.722039527	0.000251481	0.001594961
ENSMMUG00000023216	astrotactin 1 [Source:VGNC Symbol;Acc:VGNC:70167]	-	0.721539522	0.005135023	0.020645917
ENSMMUG000000044163	zinc finger CCCH-type containing 8 [Source:NCBI gene;Acc:698828]	-	0.719900374	0.006775598	0.02587104
ENSMMUG000000020510	kelch like family member 41 [Source:VGNC Symbol;Acc:VGNC:74062]	-	0.719851913	0.011396228	0.039191674

ENSMMUG00000012939	fermitin family member 3 [Source:VGNC Symbol;Acc:VGNC:72553]	-	0.718362453	0.003076201	0.013379189
ENSMMUG00000023277	inositol polyphosphate-5-phosphatase B [Source:VGNC Symbol;Acc:VGNC:73750]	-	0.718031957	0.011212248	0.038690719
ENSMMUG00000065127	insulin like 6 [Source:NCBI gene;Acc:693735]	-	0.717345766	0.000221267	0.001435901
ENSMMUG00000010321	C2 domain containing 3 centriole elongation regulator [Source:VGNC Symbol;Acc:VGNC:70375]	-	0.716510441	0.000588128	0.00332812
ENSMMUG00000056105	T-box transcription factor 10 [Source:NCBI gene;Acc:721689]	-	0.715902996	0.012660415	0.042761516
ENSMMUG00000021620	ELKS/RAB6-interacting/CAST family member 2 [Source:VGNC Symbol;Acc:VGNC:72164]	-	0.715853733	0.003634792	0.015442525
ENSMMUG00000018512	GC-rich sequence DNA-binding factor 2 [Source:VGNC Symbol;Acc:VGNC:72715]	-	0.713012786	0.012099325	0.041171872
ENSMMUG00000005740	ubiquitin specific peptidase 24 [Source:VGNC Symbol;Acc:VGNC:78743]	-	0.712168677	0.001247419	0.006265641
ENSMMUG00000000388	plectin [Source:VGNC Symbol;Acc:VGNC:76173]	-	-0.71170938	0.010680392	0.037272203
ENSMMUG00000010839	small G protein signaling modulator 1 [Source:VGNC Symbol;Acc:VGNC:77336]	-	0.711124167	0.0026122	0.011620176
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]	-	0.710021923	0.005029073	0.020259696
ENSMMUG00000054701		-	0.709453929	0.007078079	0.026669732
ENSMMUG00000006861	dynein axonemal heavy chain 10 [Source:NCBI gene;Acc:710343]	-	0.709046846	0.003960344	0.016628022
ENSMMUG00000017725	eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]	-	0.708336191	0.00428442	0.017695322
ENSMMUG00000007570	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	-	0.708116993	0.001890255	0.008881163
ENSMMUG00000063979		-	0.706341885	0.000286744	0.001788113
ENSMMUG00000003462	ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]	-	0.704599065	0.001135886	0.005781023
ENSMMUG00000015450	3-hydroxyacyl-CoA dehydratase 3 [Source:VGNC Symbol;Acc:VGNC:73225]	-	-0.70117112	0.011771032	0.040221784
ENSMMUG00000018168	alkaline ceramidase 3 [Source:VGNC Symbol;Acc:VGNC:69415]	-	0.700216889	0.00437398	0.017992164
ENSMMUG00000012605	solute carrier organic anion transporter family member 2A1 [Source:VGNC Symbol;Acc:VGNC:77600]	-	0.699338596	0.001995376	0.009296881
ENSMMUG00000006311	prolyl endopeptidase like [Source:VGNC Symbol;Acc:VGNC:76346]	-	0.699069825	0.004105285	0.017116029
ENSMMUG00000013518	myosin IA [Source:VGNC Symbol;Acc:VGNC:75110]	-	0.698341189	0.002120706	0.009788848
ENSMMUG00000017529	arrestin beta 1 [Source:VGNC Symbol;Acc:VGNC:70021]	-	0.694559216	0.01272838	0.042943871
ENSMMUG00000009540	calmodulin regulated spectrin associated protein family member 3 [Source:VGNC Symbol;Acc:VGNC:70669]	-	0.692912744	7.19E-05	0.000548156
ENSMMUG00000010427	ligand dependent nuclear receptor corepressor [Source:NCBI gene;Acc:705646]	-	0.692833635	0.012183384	0.041423507
ENSMMUG00000002310	zinc finger protein 577 [Source:VGNC Symbol;Acc:VGNC:79733]	-	0.690744867	0.001486813	0.007263281
ENSMMUG00000007576	EYA transcriptional coactivator and phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:72453]	-	0.688841311	0.001044586	0.005408173
ENSMMUG00000011964	RAN binding protein 3 [Source:VGNC Symbol;Acc:VGNC:76655]	-	0.687419798	0.008088916	0.029793486
ENSMMUG00000004112	MRE11 homolog, double strand break repair nuclease [Source:VGNC Symbol;Acc:VGNC:74926]	-	0.684269788	0.006722043	0.025698868

ENSMMUG0000004491	SUMO specific peptidase 6 [Source:VGNC Symbol;Acc:VGNC:77287]	-	0.682623416	0.000546957	0.003135562
ENSMMUG00000018542	leucyl and cystinyl aminopeptidase [Source:VGNC Symbol;Acc:VGNC:74438]	-	0.679024616	0.000486801	0.002839798
ENSMMUG00000021441	amylase, alpha-1, 6-glucosidase, 4-alpha-glucanotransferase [Source:VGNC Symbol;Acc:VGNC:69744]	-	0.678285986	0.000195882	0.001296492
ENSMMUG00000060440	leucine rich repeat LGI family member 2 [Source:NCBI gene;Acc:693308]	-	0.678017242	0.000318369	0.001961247
ENSMMUG00000005650	ubiquitin specific peptidase 40 [Source:VGNC Symbol;Acc:VGNC:79226]	-	0.676999077	0.009497381	0.033904242
ENSMMUG00000062635		-	0.675588422	0.004282257	0.017695322
ENSMMUG00000012071	DEAH-box helicase 8 [Source:VGNC Symbol;Acc:VGNC:71765]	-	0.674625244	0.00369505	0.015671448
ENSMMUG00000029310	hemoglobin, alpha 2 [Source:NCBI gene;Acc:693930]	-	0.674068499	0.010295463	0.036258318
ENSMMUG00000020277	double C2 domain alpha [Source:VGNC Symbol;Acc:VGNC:71963]	-	0.673489438	0.005750084	0.02258686
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	-	0.672080773	0.001016527	0.005296368
ENSMMUG00000048882	KIAA0408 ortholog [Source:NCBI gene;Acc:100429459]	-	0.671144585	0.001158887	0.005885902
ENSMMUG00000012020	nuclear receptor coactivator 3 [Source:VGNC Symbol;Acc:VGNC:75147]	-	0.670816714	0.003491456	0.01491087
ENSMMUG00000017170	cerebral dopamine neurotrophic factor [Source:VGNC Symbol;Acc:VGNC:71094]	-	0.669533262	0.004381398	0.018010625
ENSMMUG00000003897	solute carrier family 9 member A7 [Source:NCBI gene;Acc:710906]	-	0.664935912	0.008961408	0.032381687
ENSMMUG00000021228	gem nuclear organelle associated protein 5 [Source:VGNC Symbol;Acc:VGNC:72751]	-	0.664627247	0.005649322	0.022288255
ENSMMUG00000064089		-	0.663092004	0.010444571	0.036605139
ENSMMUG00000005136	TRPM8 channel associated factor 1 [Source:VGNC Symbol;Acc:VGNC:79346]	-	0.663070171	0.008534433	0.031140383
ENSMMUG00000061176		-	0.662563801	0.008512344	0.031082952
ENSMMUG00000054164		-	0.662194096	0.014650804	0.048147869
ENSMMUG00000005469	endoplasmic reticulum metalloproteinase 1 [Source:VGNC Symbol;Acc:VGNC:72322]	-	0.660473619	0.001063633	0.005488293
ENSMMUG00000002781	peroxidase like [Source:VGNC Symbol;Acc:VGNC:84107]	-	0.658851941	0.006491808	0.024934628
ENSMMUG00000017555	PR/SET domain 10 [Source:VGNC Symbol;Acc:VGNC:76250]	-	0.657020767	0.004185219	0.01738443
ENSMMUG00000054204		-	0.654049528	0.008227866	0.030214728
ENSMMUG00000050825	potassium voltage-gated channel subfamily D member 3 [Source:NCBI gene;Acc:641437]	-	0.649044134	0.005340668	0.021264061
ENSMMUG00000004184	heat shock transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:73446]	-	0.648848599	0.009994525	0.035360594
ENSMMUG00000001228	LLGL scribble cell polarity complex component 2 [Source:NCBI gene;Acc:706973]	-	0.647494973	0.009984033	0.035333644
ENSMMUG00000019470	pecanex 1 [Source:VGNC Symbol;Acc:VGNC:75655]	-	0.646728871	0.004633702	0.018864801
ENSMMUG00000012036	RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]	-	0.645731226	0.005046751	0.020317594
ENSMMUG00000056711	ribonuclease inhibitor-like [Source:NCBI gene;Acc:114672186]	-	-0.64432771	0.000605062	0.003409817

ENSMMUG0000008687	B cell linker [Source:VGNC Symbol;Acc:VGNC:70306]	-	0.640723172	0.002441514	0.010992179
ENSMMUG00000050425	DnaJ heat shock protein family (Hsp40) member B4 [Source:NCBI gene;Acc:707206]	-	0.638746727	0.008296684	0.03043108
ENSMMUG00000016740	defective in cullin neddylation 1 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:71684]	-	-0.63721582	0.000328407	0.002011186
ENSMMUG00000006479	Rap guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:76582]	-	0.633490061	0.001088504	0.005593146
ENSMMUG00000019582	ankyrin repeat and KH domain-containing protein 1 [Source:NCBI gene;Acc:698045]	-	0.627210519	0.001376475	0.00680541
ENSMMUG00000018929	ankyrin repeat domain 10 [Source:VGNC Symbol;Acc:VGNC:69646]	-	0.625984787	0.010365449	0.036379708
ENSMMUG00000053737	BarH like homeobox 2 [Source:NCBI gene;Acc:696831]	-	0.618856336	0.001732917	0.008239432
ENSMMUG00000005613	signal transducer and activator of transcription 1 [Source:VGNC Symbol;Acc:VGNC:77904]	-	0.615762509	0.000715021	0.003945064
ENSMMUG00000007078	N-acylsphingosine amidohydrolase 2 [Source:NCBI gene;Acc:703913]	-	0.614130711	0.000657514	0.003665081
ENSMMUG00000013039	solute carrier family 19 member 2 [Source:VGNC Symbol;Acc:VGNC:81571]	-	-0.60811587	0.010158748	0.035848743
ENSMMUG00000052418		-	0.608066572	0.004156624	0.017283177
ENSMMUG00000016540	transmembrane protein 126B [Source:VGNC Symbol;Acc:VGNC:79893]	-	0.607561205	0.013125479	0.044053867
ENSMMUG00000013954	PDZ domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75829]	-	0.601142652	0.012758723	0.043010823
ENSMMUG00000030786	transient receptor potential cation channel subfamily C member 4 [Source:NCBI gene;Acc:695636]	-	0.595447135	0.007895438	0.029247387
ENSMMUG00000052090		-	0.594513735	0.004343983	0.017892725
ENSMMUG00000059910		-	0.593429908	0.004563222	0.018633409
ENSMMUG00000004223	ring finger protein 10 [Source:VGNC Symbol;Acc:VGNC:76702]	-	0.592152708	0.014773669	0.048499776
ENSMMUG00000014301	nectin cell adhesion molecule 2 [Source:VGNC Symbol;Acc:VGNC:75396]	-	0.591230461	0.014839619	0.048677279
ENSMMUG00000013782	laminin subunit alpha 4 [Source:VGNC Symbol;Acc:VGNC:74227]	-	0.584571174	0.01132016	0.038973694
ENSMMUG00000030060	F-box and leucine rich repeat protein 20 [Source:VGNC Symbol;Acc:VGNC:81407]	-	0.584014344	0.012272388	0.041679999
ENSMMUG00000010878	adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]	-	0.583129144	0.003155235	0.013681262
ENSMMUG00000020671	BPI fold containing family B member 3 [Source:VGNC Symbol;Acc:VGNC:70320]	-	0.582256286	0.007775168	0.02889767
ENSMMUG00000009459	centrosomal protein 95 [Source:VGNC Symbol;Acc:VGNC:71095]	-	0.581832428	0.013039383	0.043836721
ENSMMUG00000010304	cilia and flagella associated protein 298 [Source:NCBI gene;Acc:700721]	-	0.579356259	0.001802338	0.008516929
ENSMMUG00000009463	DEAD-box helicase 5 [Source:VGNC Symbol;Acc:VGNC:71763]	-	0.573480043	0.002430315	0.010953794
ENSMMUG00000002257	RNA polymerase III subunit E [Source:VGNC Symbol;Acc:VGNC:76142]	-	0.563265825	0.012930878	0.043531476
ENSMMUG00000004603	zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]	-	0.561352157	0.006041374	0.023453737
ENSMMUG00000029176	Rho GTPase activating protein 17 [Source:NCBI gene;Acc:701988]	-	-0.56133295	0.007993235	0.029529221
ENSMMUG00000003435	transcriptional repressor GATA binding 1 [Source:VGNC Symbol;Acc:VGNC:78656]	-	0.558544488	0.008230875	0.030216753

ENSMMUG00000010941	Rho guanine nucleotide exchange factor 38 [Source:VGNC Symbol;Acc:VGNC:82087]	0.540127065	0.008536925	0.031140383
ENSMMUG00000019891	aldo-keto reductase family 1 member C15 [Source:NCBI gene;Acc:722485]	0.539235002	0.014857524	0.048723008
ENSMMUG00000052781		0.537473788	0.009472957	0.03383671
ENSMMUG00000017052	StAR related lipid transfer domain containing 13 [Source:VGNC Symbol;Acc:VGNC:77962]	0.534943999	0.003202499	0.013864713
ENSMMUG00000059231		0.522566675	0.013337264	0.044594209
ENSMMUG00000049311	zinc finger protein 558 [Source:NCBI gene;Acc:712590]	0.517214328	0.004307123	0.017770678
ENSMMUG00000018375	notch receptor 2 [Source:NCBI gene;Acc:713798]	0.515843144	0.004319784	0.017804985
ENSMMUG00000015375	cadherin EGF LAG seven-pass G-type receptor 2 [Source:VGNC Symbol;Acc:VGNC:71149]	0.515453131	0.005535032	0.02193136
ENSMMUG00000015602	MAP kinase activating death domain [Source:VGNC Symbol;Acc:VGNC:74473]	0.501004569	0.013689319	0.045531306
ENSMMUG00000049993		0.472766504	0.006610206	0.025341871
ENSMMUG00000005269	trafficking protein particle complex 10 [Source:NCBI gene;Acc:713177]	0.464769241	0.012341129	0.041844089
ENSMMUG00000011713	leupaxin [Source:VGNC Symbol;Acc:VGNC:74286]	0.463422803	0.003309989	0.014262853
ENSMMUG00000021163	contactin 1 [Source:VGNC Symbol;Acc:VGNC:71283]	0.459001159	0.01029129	0.036256174
ENSMMUG00000010633	PHD finger protein 20 [Source:VGNC Symbol;Acc:VGNC:75807]	0.400191705	0.015217171	0.049729925
ENSMMUG00000022825	carboxylesterase 2 [Source:VGNC Symbol;Acc:VGNC:71012]	0.413498842	0.015226793	0.049732207
ENSMMUG00000000307	RIO kinase 2 [Source:VGNC Symbol;Acc:VGNC:76774]	0.422158483	0.010004345	0.035374971
ENSMMUG00000015114	toll like receptor adaptor molecule 2 [Source:NCBI gene;Acc:100426353]	0.428917075	0.003309401	0.014262853
ENSMMUG00000063093	epiplakin 1 [Source:NCBI gene;Acc:699265]	0.434439664	0.014014828	0.04638025
ENSMMUG00000010834	REL proto-oncogene, NF-kB subunit [Source:VGNC Symbol;Acc:VGNC:76892]	0.440484811	0.01163936	0.039838311
ENSMMUG00000006727	vitamin D receptor [Source:VGNC Symbol;Acc:VGNC:78764]	0.457295851	0.010042204	0.035488421
ENSMMUG00000014013	ATP binding cassette subfamily D member 3 [Source:VGNC Symbol;Acc:VGNC:69579]	0.466725822	0.010273353	0.036211581
ENSMMUG00000005780	dynein cytoplasmic 1 heavy chain 1 [Source:VGNC Symbol;Acc:VGNC:71951]	0.467424074	0.006657183	0.025474294
ENSMMUG00000011309	ADP dependent glucokinase [Source:VGNC Symbol;Acc:VGNC:69692]	0.46993185	0.009930613	0.035185115
ENSMMUG00000008885	exocyst complex component 7 [Source:VGNC Symbol;Acc:VGNC:72319]	0.473459764	0.003473993	0.014851774
ENSMMUG00000003144	potassium inwardly rectifying channel subfamily J member 1 [Source:VGNC Symbol;Acc:VGNC:73984]	0.476766113	0.00716597	0.026920285
ENSMMUG00000008556	integrin subunit alpha E [Source:NCBI gene;Acc:721483]	0.479068102	0.014504313	0.047781429
ENSMMUG000000061922		0.480177363	0.006403781	0.024635016
ENSMMUG000000064240		0.48027551	0.008113716	0.029872324
ENSMMUG00000012511	G protein nucleolar 3 [Source:VGNC Symbol;Acc:VGNC:73038]	0.482218205	0.011544528	0.039590903
ENSMMUG00000010898	tripartite motif containing 13 [Source:VGNC Symbol;Acc:VGNC:79972]	0.482859395	0.005471006	0.021712668
ENSMMUG000000050516		0.483907941	0.014104793	0.046665412
ENSMMUG00000012933	myosin IE [Source:VGNC Symbol;Acc:VGNC:75114]	0.49095069	0.014326377	0.047317981
ENSMMUG00000007382	proteasomal ATPase associated factor 1 [Source:NCBI gene;Acc:718755]	0.49301017	0.011630524	0.039830839
ENSMMUG00000018503	NACHT and WD repeat domain containing 1 [Source:NCBI gene;Acc:719640]	0.493077907	0.005347879	0.021285874
ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.493446279	0.008975704	0.032418566
ENSMMUG00000052363	MYCN proto-oncogene, bHLH transcription factor [Source:NCBI gene;Acc:698699]	0.498880587	0.01391479	0.046123701
ENSMMUG000000060764		0.49923836	0.004193368	0.017400637
ENSMMUG00000023128	inositol 1,4,5-trisphosphate receptor type 2 [Source:VGNC Symbol;Acc:VGNC:73805]	0.503968069	0.005991737	0.023312579
ENSMMUG000000050742	src kinase associated phosphoprotein 1 [Source:NCBI gene;Acc:697043]	0.50776099	0.003913465	0.016472739
ENSMMUG000000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	0.516657786	0.013449174	0.044907307
ENSMMUG000000055107		0.518819495	0.004776732	0.01935734

ENSMMUG0000006399	chaperonin containing TCP1 subunit 6B [Source:VGNC Symbol;Acc:VGNC:70748]	0.520467664	0.000715446	0.003945064
ENSMMUG00000011278	cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]	0.522476875	0.004499695	0.018416835
ENSMMUG00000046092	adhesion G protein-coupled receptor B3 [Source:VGNC Symbol;Acc:VGNC:81006]	0.523216983	0.002459068	0.011046932
ENSMMUG0000004026	integrin subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73774]	0.526986546	0.013245512	0.044384019
ENSMMUG00000042232	NBPF member 6 [Source:NCBI gene;Acc:698524]	0.528623976	0.009119472	0.032850947
ENSMMUG00000019136	taxilin beta [Source:VGNC Symbol;Acc:VGNC:79325]	0.529375836	0.003576789	0.01521714
ENSMMUG00000054233		0.534114019	0.00139972	0.006898137
ENSMMUG00000011557	platelet derived growth factor receptor beta [Source:VGNC Symbol;Acc:VGNC:75929]	0.535569639	0.000200387	0.001319206
ENSMMUG00000017817	membrane associated guanylate kinase, WW and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74400]	0.535944944	0.014985021	0.049036447
ENSMMUG00000056477		0.537374377	0.007565877	0.028213652
ENSMMUG00000003971	CDC42 binding protein kinase gamma [Source:VGNC Symbol;Acc:VGNC:70909]	0.538212733	0.008480051	0.030983444
ENSMMUG00000021866	deoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:71946]	0.540040443	0.00929599	0.033330518
ENSMMUG00000057336		0.541810306	0.004644376	0.018901994
ENSMMUG00000006139	3-hydroxy-3-methylglutaryl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:73484]	0.547572687	0.013756713	0.045706305
ENSMMUG00000054834		0.548222984	0.001343725	0.006670327
ENSMMUG00000021012	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	0.557619478	0.011541361	0.039590903
ENSMMUG00000021279	zinc finger MYND-type containing 11 [Source:VGNC Symbol;Acc:VGNC:79060]	0.559842024	0.006017265	0.02338969
ENSMMUG00000008970	calsequestrin 2 [Source:VGNC Symbol;Acc:VGNC:70549]	0.561493752	0.01174489	0.040143614
ENSMMUG00000003633	solute carrier family 4 member 11 [Source:VGNC Symbol;Acc:VGNC:77721]	0.56235665	0.001061166	0.005480165
ENSMMUG00000062177		0.565413036	0.009761028	0.034724399
ENSMMUG00000018139	dedicator of cytokinesis 10 [Source:VGNC Symbol;Acc:VGNC:71888]	0.568918465	0.001608719	0.007750985
ENSMMUG00000003972	EH domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72175]	0.570213912	0.015096304	0.049374315
ENSMMUG00000023381	dynein axonemal heavy chain 8 [Source:VGNC Symbol;Acc:VGNC:71943]	0.571049753	0.003005068	0.013120886
ENSMMUG00000049375		0.571052314	0.000807059	0.004375631
ENSMMUG00000055454		0.572485925	0.011230564	0.038741191
ENSMMUG00000060943		0.572763596	0.004950167	0.019966835
ENSMMUG00000005878	protein tyrosine phosphatase receptor type A [Source:VGNC Symbol;Acc:VGNC:76610]	0.574104206	0.005957451	0.023230656
ENSMMUG00000032341	coiled-coil domain containing 160 [Source:VGNC Symbol;Acc:VGNC:70926]	0.574251166	0.002235143	0.010205106
ENSMMUG00000003555	calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]	0.58506615	0.000483314	0.002823392
ENSMMUG00000031293	anoctamin-9 [Source:NCBI gene;Acc:100425888]	0.585112144	0.006283182	0.024254581
ENSMMUG00000047880	alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:84439]	0.586962711	0.009567715	0.034115689
ENSMMUG00000061384	sodium voltage-gated channel beta subunit 2 [Source:NCBI gene;Acc:678698]	0.5889521	0.000750313	0.004100535
ENSMMUG00000029181	X-ray repair cross complementing 3 [Source:NCBI gene;Acc:695788]	0.59038974	0.002485552	0.011149606
ENSMMUG00000002909	placental growth factor [Source:VGNC Symbol;Acc:VGNC:75964]	0.59260402	0.003080231	0.013391979
ENSMMUG00000061481	inosine triphosphatase [Source:NCBI gene;Acc:717257]	0.593206994	0.001136931	0.005783949
ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]	0.593343202	0.004489266	0.018380271
ENSMMUG00000013653	lysine demethylase 5A [Source:VGNC Symbol;Acc:VGNC:82169]	0.593842941	0.000595436	0.003360192
ENSMMUG00000061673		0.594368664	0.008387381	0.030702836
ENSMMUG00000014271	protein kinase C beta [Source:VGNC Symbol;Acc:VGNC:76410]	0.594908753	0.012194065	0.041436896
ENSMMUG00000013730	WD repeat domain 17 [Source:NCBI gene;Acc:700546]	0.595697697	0.000284903	0.001778435
ENSMMUG00000052917		0.599221384	0.011351103	0.039069282
ENSMMUG00000010432	zinc finger protein 592 [Source:VGNC Symbol;Acc:VGNC:79762]	0.599300144	0.00055248	0.003161325
ENSMMUG00000007541	cholinergic receptor nicotinic beta 4 subunit [Source:NCBI gene;Acc:106996685]	0.599576555	0.00304339	0.013255249
ENSMMUG00000003508	actin related protein 10 [Source:VGNC Symbol;Acc:VGNC:69449]	0.600214814	0.006339827	0.024442539
ENSMMUG00000006287	DAP3 binding cell death enhancer 1 [Source:VGNC Symbol;Acc:VGNC:71806]	0.600525806	0.013470371	0.04496587
ENSMMUG00000022682	tripartite motif containing 68 [Source:NCBI gene;Acc:717644]	0.604530239	0.002363762	0.010712759
ENSMMUG00000064225	tectonic family member 2 [Source:NCBI gene;Acc:721415]	0.60653653	0.004366813	0.017974717
ENSMMUG00000013983	RUN domain containing 3A [Source:VGNC Symbol;Acc:VGNC:77032]	0.606722984	0.00298013	0.01302588
ENSMMUG00000016742	CTD small phosphatase like 2 [Source:VGNC Symbol;Acc:VGNC:71593]	0.608097862	0.00215414	0.009894071
ENSMMUG00000011579	TAFA chemokine like family member 2 [Source:VGNC Symbol;Acc:VGNC:78189]	0.610596595	0.001359917	0.006734384
ENSMMUG00000021446	diacylglycerol kinase zeta [Source:VGNC Symbol;Acc:VGNC:71789]	0.61076101	0.002735021	0.012070428

ENSMMUG0000008931	MAU2 sister chromatid cohesion factor [Source:NCBI gene;Acc:720347]	0.612583196	0.00025269	0.001597639
ENSMMUG0000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]	0.615596534	0.006295397	0.024286482
ENSMMUG0000007212	lysine methyltransferase 2C [Source:VGNC Symbol;Acc:VGNC:74043]	0.62370053	0.009825534	0.034903363
ENSMMUG00000018121	zinc finger FYVE-type containing 21 [Source:VGNC Symbol;Acc:VGNC:79282]	0.62828142	0.003197103	0.013846226
ENSMMUG00000022070	sialic acid binding Ig like lectin 1 [Source:VGNC Symbol;Acc:VGNC:77220]	0.629911837	0.002924266	0.012813602
ENSMMUG00000015877	1,4-alpha-glucan branching enzyme 1 [Source:VGNC Symbol;Acc:VGNC:72894]	0.630244582	0.006403105	0.024635016
ENSMMUG00000008041	ankyrin repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:69693]	0.630542213	0.003135014	0.013606093
ENSMMUG00000006141	ceramide transporter 1 [Source:VGNC Symbol;Acc:VGNC:71298]	0.630678614	0.005562794	0.022020065
ENSMMUG00000060493		0.631692632	0.00051549	0.002978793
ENSMMUG00000014313	zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]	0.637170909	0.008352532	0.030608518
ENSMMUG00000041006	family with sequence similarity 171 member A2 [Source:NCBI gene;Acc:712099]	0.638440848	0.000917315	0.004878721
ENSMMUG00000017382	biliverdin reductase A [Source:VGNC Symbol;Acc:VGNC:70256]	0.638711378	0.000441738	0.002595315
ENSMMUG00000008134	DnaJ heat shock protein family (Hsp40) member A3 [Source:NCBI gene;Acc:708783]	0.639016149	0.006450555	0.024791675
ENSMMUG00000052626	progesterone and adipoQ receptor family member 8 [Source:NCBI gene;Acc:708418]	0.639555478	0.007320285	0.027422621
ENSMMUG00000019015	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73217]	0.647165264	0.002425711	0.01094107
ENSMMUG00000019926	cytoplasmic polyadenylation element binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71450]	0.650247677	0.005221752	0.020939823
ENSMMUG00000015840	RAN binding protein 17 [Source:VGNC Symbol;Acc:VGNC:84485]	0.650637231	0.006867253	0.026075194
ENSMMUG00000009173	serine/threonine kinase 24 [Source:VGNC Symbol;Acc:VGNC:81583]	0.652086431	0.005857194	0.022897828
ENSMMUG00000021924	NHS like 2 [Source:NCBI gene;Acc:702808]	0.652468082	0.001074049	0.005528113
ENSMMUG00000016418	chromobox 4 [Source:VGNC Symbol;Acc:VGNC:70558]	0.65294548	0.003763656	0.015929441
ENSMMUG00000018922	cell division cycle 25B [Source:VGNC Symbol;Acc:VGNC:70795]	0.65322621	0.00032316	0.001983994
ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	0.654513415	0.006831928	0.025989239
ENSMMUG00000060616	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.654663085	0.00914406	0.032929867
ENSMMUG00000003956	interferon alpha and beta receptor subunit 2 [Source:VGNC Symbol;Acc:VGNC:81330]	0.655771238	0.000392443	0.002335841
ENSMMUG00000018579	sperm antigen with calponin homology and coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:78021]	0.656064231	0.002947223	0.012909591
ENSMMUG00000021830	DENN domain containing 2B [Source:VGNC Symbol;Acc:VGNC:77898]	0.657059253	0.00254046	0.011362735
ENSMMUG00000000901	alpha hemoglobin stabilizing protein [Source:VGNC Symbol;Acc:VGNC:69631]	0.657980235	0.000834414	0.004506054
ENSMMUG000000061698		0.660350936	0.002825699	0.012443806
ENSMMUG00000007556	kinetochore associated 1 [Source:VGNC Symbol;Acc:VGNC:74064]	0.662005221	0.005556343	0.022001614
ENSMMUG000000057643		0.662370355	0.002397118	0.010831977
ENSMMUG00000018344	myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]	0.66540448	0.011673285	0.039943303
ENSMMUG00000013107	tripartite motif containing 32 [Source:VGNC Symbol;Acc:VGNC:79032]	0.665939613	0.000369575	0.002219075
ENSMMUG00000001667	transmembrane protein 210 [Source:VGNC Symbol;Acc:VGNC:79945]	0.666098169	0.003026804	0.013192358
ENSMMUG00000017985	catenin alpha 1 [Source:VGNC Symbol;Acc:VGNC:84291]	0.666291098	0.004327455	0.017830624
ENSMMUG00000004144	adaptor related protein complex 1 subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:69959]	0.666440748	0.000463704	0.002715285
ENSMMUG00000001302	sucrase-isomaltase [Source:VGNC Symbol;Acc:VGNC:77213]	0.66652711	0.003865176	0.016307163
ENSMMUG00000010875	TEA domain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:78301]	0.667151009	0.000883375	0.004716512
ENSMMUG00000000151	transmembrane serine protease 6 [Source:VGNC Symbol;Acc:VGNC:79038]	0.667904691	0.000579101	0.003286119
ENSMMUG00000000478	OTU deubiquitinase, ubiquitin aldehyde binding 1 [Source:NCBI gene;Acc:717989]	0.668352742	0.000166342	0.001120891
ENSMMUG00000014432	plasminogen activator, tissue type [Source:VGNC Symbol;Acc:VGNC:76161]	0.669751252	7.15E-05	0.00054637
ENSMMUG00000028928	ankyrin repeat domain 24 [Source:NCBI gene;Acc:721829]	0.671388466	0.001634754	0.007854873
ENSMMUG000000064750		0.672651638	0.012946544	0.04357228
ENSMMUG00000012667	annexin A1 [Source:VGNC Symbol;Acc:VGNC:69944]	0.675244242	0.000524956	0.003024957
ENSMMUG000000064973		0.678370464	0.000272849	0.001708463
ENSMMUG00000016476	TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]	0.678525941	0.005197079	0.020850914
ENSMMUG000000060157	zinc finger protein 330 [Source:NCBI gene;Acc:699364]	0.679676441	0.012084915	0.041145622
ENSMMUG00000012117	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:VGNC Symbol;Acc:VGNC:73364]	0.680069191	0.000191317	0.001273131
ENSMMUG000000051874		0.680255585	0.003876523	0.016345228
ENSMMUG00000014288	eukaryotic translation initiation factor 3 subunit J [Source:VGNC Symbol;Acc:VGNC:72188]	0.682684004	0.004760098	0.019309032
ENSMMUG00000000959	cytochrome P450, family 11, subfamily B, polypeptide 2 [Source:NCBI gene;Acc:695914]	0.683517686	0.008587623	0.031274213
ENSMMUG00000023004	structural maintenance of chromosomes 1B [Source:VGNC Symbol;Acc:VGNC:77657]	0.683558055	0.002421466	0.010925931

ENSMMUG00000050418	superoxide dismutase 2 [Source:NCBI gene;Acc:574097]	0.683637358	0.003379373	0.014517955
ENSMMUG00000006403	potassium voltage-gated channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:73971]	0.684371965	0.000990323	0.005186221
ENSMMUG00000015284	NADH:ubiquinone oxidoreductase subunit B2 [Source:VGNC Symbol;Acc:VGNC:75156]	0.686517595	0.000912821	0.00486113
ENSMMUG00000005241		0.686609398	0.004119206	0.017162426
ENSMMUG00000010734	cytochrome P450, family 4, subfamily F, polypeptide 8 [Source:NCBI gene;Acc:718335]	0.687602813	0.002246666	0.010253908
ENSMMUG00000022019	cathepsin O [Source:VGNC Symbol;Acc:VGNC:71561]	0.690097243	0.002127604	0.009808845
ENSMMUG00000011134	transcription factor Dp-2 [Source:VGNC Symbol;Acc:VGNC:78324]	0.690345932	0.000538584	0.003094783
ENSMMUG00000009938	myosin XVIIIa [Source:VGNC Symbol;Acc:VGNC:75058]	0.691858892	0.000124089	0.000870722
ENSMMUG00000004177	myosin VIIB [Source:NCBI gene;Acc:714563]	0.694759881	6.10E-06	6.14E-05
ENSMMUG00000018152	spindlin interactor and repressor of chromatin binding [Source:VGNC Symbol;Acc:VGNC:77987]	0.696038586	0.003918911	0.016490016
ENSMMUG00000008520	ATPase phospholipid transporting 8A2 [Source:VGNC Symbol;Acc:VGNC:70062]	0.696343517	0.007504488	0.028018732
ENSMMUG00000004931	spectrin repeat containing nuclear envelope family member 3 [Source:VGNC Symbol;Acc:VGNC:78176]	0.697953099	0.007071691	0.026653834
ENSMMUG00000023405	otopetritin 3 [Source:VGNC Symbol;Acc:VGNC:75654]	0.701078363	0.008212399	0.030166946
ENSMMUG00000022136	laminin subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:74225]	0.703181775	0.000231285	0.001489897
ENSMMUG00000003161	microtubule associated serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:74533]	0.70330381	0.010991195	0.038090687
ENSMMUG00000019556	transmembrane 9 superfamily member 2 [Source:VGNC Symbol;Acc:VGNC:78568]	0.704121876	2.48E-05	0.000215381
ENSMMUG00000031160	menin 1 [Source:NCBI gene;Acc:106995582]	0.704299723	4.89E-05	0.000391445
ENSMMUG00000018909	fetuin B [Source:VGNC Symbol;Acc:VGNC:72638]	0.70592842	0.000715298	0.003945064
ENSMMUG000000061917		0.706717235	0.007903014	0.029266629
ENSMMUG00000022094	ATP binding cassette subfamily B member 10 [Source:NCBI gene;Acc:574117]	0.707316593	1.04E-05	9.93E-05
ENSMMUG000000049440	chromosome 16 C17orf113 homolog [Source:NCBI gene;Acc:106994045]	0.708114503	5.42E-06	5.55E-05
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	0.708533697	0.000559642	0.003196356
ENSMMUG00000005667	fumarate hydratase [Source:VGNC Symbol;Acc:VGNC:72659]	0.709349403	0.005320792	0.021212408
ENSMMUG00000019684	NAD(P)H quinone dehydrogenase 1 [Source:NCBI gene;Acc:705635]	0.709830921	0.006495904	0.024942566
ENSMMUG00000001304	transforming growth factor beta receptor 1 [Source:VGNC Symbol;Acc:VGNC:78337]	0.71049809	0.012046235	0.041025289
ENSMMUG00000006182	bromodomain adjacent to zinc finger domain 2B [Source:NCBI gene;Acc:702780]	0.71157242	0.003443076	0.014764397
ENSMMUG00000021689	Rac GTPase activating protein 1 [Source:NCBI gene;Acc:711887]	0.712911931	0.006725997	0.025703634
ENSMMUG00000038221	proteasome 26S subunit, non-ATPase 8 [Source:NCBI gene;Acc:721897]	0.713783524	0.006012415	0.023385229
ENSMMUG00000005744	glutamate ionotropic receptor NMDA type subunit 2C [Source:VGNC Symbol;Acc:VGNC:73284]	0.714723986	0.005197885	0.020850914
ENSMMUG00000014981	homeobox containing 1 [Source:VGNC Symbol;Acc:VGNC:73443]	0.714991789	0.010443416	0.036605139
ENSMMUG000000056959		0.715569466	0.005844618	0.022855934
ENSMMUG00000010367	myosin heavy chain 11 [Source:VGNC Symbol;Acc:VGNC:75097]	0.715840359	0.000836403	0.004508619
ENSMMUG00000021267	potassium calcium-activated channel subfamily N member 4 [Source:NCBI gene;Acc:712383]	0.717683792	0.008591522	0.031279146
ENSMMUG00000003297	coiled-coil domain containing 63 [Source:VGNC Symbol;Acc:VGNC:70879]	0.718663022	0.010882205	0.037815431
ENSMMUG00000014489	DEAD-box helicase 20 [Source:NCBI gene;Acc:704731]	0.719822214	4.99E-05	0.000398963
ENSMMUG00000014641		0.720375707	0.000119042	0.000839438
ENSMMUG00000009128	discs large MAGUK scaffold protein 5 [Source:VGNC Symbol;Acc:VGNC:71921]	0.721234736	0.000994002	0.005201056
ENSMMUG00000007510	transaldolase 1 [Source:VGNC Symbol;Acc:VGNC:78096]	0.721250135	0.010938199	0.037977797
ENSMMUG00000019807	regulator of G protein signaling 14 [Source:VGNC Symbol;Acc:VGNC:76918]	0.72169397	0.00031563	0.001948473
ENSMMUG000000059553		0.721866714	0.003471515	0.014846341
ENSMMUG00000017945	septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]	0.722102799	0.001461513	0.007156754
ENSMMUG00000017505	tetratricopeptide repeat domain 3 [Source:VGNC Symbol;Acc:VGNC:81785]	0.722122216	0.000335862	0.002051732
ENSMMUG00000003534	ring finger protein 157 [Source:VGNC Symbol;Acc:VGNC:76860]	0.722204906	0.001222075	0.006155954
ENSMMUG00000001777	testis expressed metallothionein like protein [Source:VGNC Symbol;Acc:VGNC:79965]	0.724036448	0.003866168	0.016307163
ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	0.724717867	0.001775197	0.008404834
ENSMMUG00000006297	programmed cell death 7 [Source:NCBI gene;Acc:708758]	0.726453326	0.000146085	0.001002251
ENSMMUG00000022895	DnaJ heat shock protein family (Hsp40) member B5 [Source:NCBI gene;Acc:699081]	0.728107259	1.09E-06	1.32E-05
ENSMMUG00000017949	ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]	0.728782904	3.33E-05	0.000280032
ENSMMUG00000042793	B-Raf proto-oncogene, serine/threonine kinase [Source:NCBI gene;Acc:693554]	0.729673784	0.0073429	0.027498958
ENSMMUG000000043846		0.730056434	0.002896753	0.01271117
ENSMMUG000000060605		0.732206004	0.004603981	0.018774894

ENSMMUG00000057187		0.734009016	0.003961179	0.016628022
ENSMMUG00000054789	family with sequence similarity 174 member A [Source:NCBI gene;Acc:702300]	0.734615813	0.001255797	0.006302485
ENSMMUG00000006068	transmembrane protein 100 [Source:VGNC Symbol;Acc:VGNC:79521]	0.735483343	0.000793166	0.004311721
ENSMMUG00000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]	0.735938214	0.001348795	0.006690087
ENSMMUG00000010428	slit guidance ligand 1 [Source:VGNC Symbol;Acc:VGNC:77643]	0.736155154	4.52E-05	0.000364726
ENSMMUG00000016962	keratin 1 [Source:VGNC Symbol;Acc:VGNC:74206]	0.737855112	0.014572761	0.047929837
ENSMMUG00000010062	shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]	0.738355707	3.51E-05	0.000293257
ENSMMUG00000014873	torsin 1A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79810]	0.739513367	0.00464597	0.018902223
ENSMMUG00000030597	mitogen-activated protein kinase kinase kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81465]	0.742079209	1.85E-05	0.000166462
ENSMMUG00000010798	cell cycle progression 1 [Source:VGNC Symbol;Acc:VGNC:70844]	0.743660801	0.004608061	0.018785298
ENSMMUG00000020575	SOS Ras/Rac guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:77837]	0.744076809	0.005589481	0.022083031
ENSMMUG00000016876	integrin subunit alpha L [Source:NCBI gene;Acc:711945]	0.744303333	0.006387989	0.02460507
ENSMMUG00000051669		0.744538484	0.00022308	0.001445378
ENSMMUG00000010393	cadherin 3 [Source:VGNC Symbol;Acc:VGNC:70971]	0.746736291	0.000145529	0.000999559
ENSMMUG00000056509	ribonuclease, RNase A family, 3 [Source:NCBI gene;Acc:100425327]	0.747031462	0.000834286	0.004506054
ENSMMUG00000058797		0.747323261	0.008826138	0.031991171
ENSMMUG00000050686		0.74975671	0.014192962	0.046944481
ENSMMUG00000003251	X antigen family member 3 [Source:NCBI gene;Acc:698267]	0.75126012	0.012443227	0.042115618
ENSMMUG00000037413	U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]	0.751353496	0.003576374	0.01521714
ENSMMUG00000007366		0.756039603	0.004227031	0.017522575
ENSMMUG00000022914	RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]	0.75682098	0.004484658	0.018376264
ENSMMUG00000019692	sec1 family domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77065]	0.757125887	0.00428454	0.017695322
ENSMMUG00000023318	transformation/transcription domain associated protein [Source:VGNC Symbol;Acc:VGNC:78657]	0.757805478	3.76E-05	0.000310269
ENSMMUG00000057906		0.760381477	1.77E-05	0.000160258
ENSMMUG00000015515	REV1 DNA directed polymerase [Source:NCBI gene;Acc:709475]	0.760413793	0.00767038	0.02854273
ENSMMUG00000013520	pumilio RNA binding family member 1 [Source:VGNC Symbol;Acc:VGNC:76479]	0.7604567	0.000193186	0.001283487
ENSMMUG00000010897	PNMA family member 3 [Source:VGNC Symbol;Acc:VGNC:76063]	0.760479668	0.004310852	0.017780094
ENSMMUG00000061749	PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]	0.761005375	1.96E-05	0.000174923
ENSMMUG00000013115	glial fibrillary acidic protein [Source:VGNC Symbol;Acc:VGNC:72913]	0.761239314	0.013253535	0.044386703
ENSMMUG00000009792	heterogeneous nuclear ribonucleoprotein H3 [Source:VGNC Symbol;Acc:VGNC:73497]	0.765215697	0.004151337	0.017272878
ENSMMUG00000020486	checkpoint kinase 2 [Source:VGNC Symbol;Acc:VGNC:70958]	0.76606871	0.000863	0.004619829
ENSMMUG00000059788		0.768610351	0.000586277	0.003320707
ENSMMUG00000008130	ABR activator of RhoGEF and GTPase [Source:VGNC Symbol;Acc:VGNC:69589]	0.770950281	0.000219532	0.001427656
ENSMMUG00000020840	TBC1 domain family member 16 [Source:VGNC Symbol;Acc:VGNC:78228]	0.771964406	0.000146573	0.001004756
ENSMMUG00000056008		0.772814662	0.000261866	0.001646341
ENSMMUG00000022867	kelch domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74122]	0.775171326	0.003417502	0.014671506
ENSMMUG00000050702	fucosyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:4016]	0.77776931	0.000272859	0.001708463
ENSMMUG00000013128	coiled-coil domain containing 30 [Source:VGNC Symbol;Acc:VGNC:70866]	0.777819425	0.005231467	0.020965101
ENSMMUG00000064735	3-hydroxyanthranilate 3,4-dioxygenase [Source:NCBI gene;Acc:713101]	0.779493276	0.001886896	0.008868772
ENSMMUG00000023418	nuclear receptor subfamily 1 group H member 2 [Source:VGNC Symbol;Acc:VGNC:75504]	0.782863817	0.000677749	0.003764217
ENSMMUG00000020744	metastasis associated 1 family member 3 [Source:VGNC Symbol;Acc:VGNC:74814]	0.783366046	0.00508545	0.020466688
ENSMMUG00000000123	NHS like 1 [Source:VGNC Symbol;Acc:VGNC:75225]	0.785222203	0.000138664	0.000957481
ENSMMUG00000000695	transmembrane protein 245 [Source:VGNC Symbol;Acc:VGNC:78933]	0.785421491	0.004318473	0.017804985
ENSMMUG00000015449	phospholipase A2 group IVF [Source:VGNC Symbol;Acc:VGNC:76123]	0.786479345	5.17E-05	0.00041235
ENSMMUG00000004619	zinc finger BED-type containing 9 [Source:VGNC Symbol;Acc:VGNC:81608]	0.786541011	0.010003578	0.035374971
ENSMMUG00000055978		0.787834061	0.001257048	0.006303702
ENSMMUG00000031295	growth hormone releasing hormone [Source:VGNC Symbol;Acc:VGNC:73049]	0.788365133	0.014568288	0.047927951
ENSMMUG00000045544	neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]	0.789145351	0.001937887	0.009070287
ENSMMUG00000013483	prolyl endopeptidase [Source:VGNC Symbol;Acc:VGNC:76396]	0.789179358	0.001197491	0.006054996
ENSMMUG00000022404	apoptotic peptidase activating factor 1 [Source:VGNC Symbol;Acc:VGNC:69975]	0.790691204	1.38E-06	1.64E-05
ENSMMUG00000011206	solute carrier family 9 member B1 [Source:NCBI gene;Acc:710949]	0.79082401	0.002473711	0.011104597

ENSMMUG00000015503	zinc finger FYVE-type containing 27 [Source:VGNC Symbol;Acc:VGNC:79623]	0.790970414	3.40E-05	0.000285237
ENSMMUG00000016715	p53-induced death domain protein 1 [Source:VGNC Symbol;Acc:VGNC:81498]	0.791159763	0.000426594	0.002513551
ENSMMUG00000002982	FAST kinase domains 5 [Source:NCBI gene;Acc:100498658]	0.792078028	0.010690913	0.037298329
ENSMMUG00000010617	coiled-coil domain containing 120 [Source:VGNC Symbol;Acc:VGNC:70664]	0.79225465	0.001564769	0.007559977
ENSMMUG000000049403		0.793125493	0.00019384	0.001285745
ENSMMUG00000019632	ribosomal L1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77096]	0.793350684	0.000195052	0.001293085
ENSMMUG00000015797	disco interacting protein 2 homolog A [Source:VGNC Symbol;Acc:VGNC:71641]	0.795572398	0.001284725	0.006416318
ENSMMUG00000009430	transient receptor potential cation channel subfamily M member 1 [Source:VGNC Symbol;Acc:VGNC:79964]	0.796840972	1.21E-06	1.44E-05
ENSMMUG00000057506		0.797689065	0.002141887	0.009848834
ENSMMUG00000014214	zinc finger protein 420 [Source:VGNC Symbol;Acc:VGNC:82277]	0.800760184	0.002598645	0.011568251
ENSMMUG00000003585	ALG5 dolichyl-phosphate beta-glucosyltransferase [Source:VGNC Symbol;Acc:VGNC:69647]	0.802586879	0.014531302	0.047857511
ENSMMUG00000052680		0.80396135	0.000193836	0.001285745
ENSMMUG00000011459	3-phosphoinositide dependent protein kinase 1 [Source:NCBI gene;Acc:697523]	0.806108862	1.22E-07	1.79E-06
ENSMMUG00000006230	NADPH oxidase 5 [Source:VGNC Symbol;Acc:VGNC:82198]	0.806917509	9.34E-05	0.000684038
ENSMMUG00000020320	protein transport protein Sec16B [Source:NCBI gene;Acc:709635]	0.810352048	0.000103454	0.000743707
ENSMMUG00000054523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.810439669	0.000284146	0.001774615
ENSMMUG00000007097	testin LIM domain protein [Source:VGNC Symbol;Acc:VGNC:78383]	0.811149488	0.001546717	0.00749833
ENSMMUG00000060063		0.811880874	0.003692901	0.015667743
ENSMMUG00000055079		0.81306125	0.000206249	0.001351281
ENSMMUG00000004522	DNA primase subunit 1 [Source:NCBI gene;Acc:710253]	0.818500079	3.80E-06	4.04E-05
ENSMMUG00000009249	ring finger protein, LIM domain interacting [Source:NCBI gene;Acc:703471]	0.818689982	0.000226428	0.001463213
ENSMMUG00000019438	utrophin [Source:VGNC Symbol;Acc:VGNC:78749]	0.819646427	0.002003784	0.009328979
ENSMMUG00000008967	VANGL planar cell polarity protein 1 [Source:VGNC Symbol;Acc:VGNC:78976]	0.82000785	9.62E-05	0.000700821
ENSMMUG00000015089	vanin 1 [Source:VGNC Symbol;Acc:VGNC:83967]	0.820174561	0.001552076	0.007510313
ENSMMUG00000053063	forkhead box L2 [Source:NCBI gene;Acc:717906]	0.822626189	0.003302881	0.014244108
ENSMMUG00000013105	astrotactin 2 [Source:VGNC Symbol;Acc:VGNC:70087]	0.822888823	0.012512119	0.042307139
ENSMMUG00000005947	sterile alpha motif domain containing 11 [Source:NCBI gene;Acc:100430343]	0.823787485	0.009954838	0.035250622
ENSMMUG00000015267	C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]	0.825306215	2.30E-06	2.58E-05
ENSMMUG00000058544	nucleosome assembly protein 1 like 5 [Source:NCBI gene;Acc:703223]	0.825871147	0.00164141	0.007880689
ENSMMUG00000020188	chromosome 15 C9orf131 homolog [Source:VGNC Symbol;Acc:VGNC:70451]	0.826720749	0.001927527	0.009035557
ENSMMUG00000016758	transmembrane protein 159 [Source:VGNC Symbol;Acc:VGNC:79836]	0.828273049	0.004826973	0.019535174
ENSMMUG00000017039	arginyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:76516]	0.832870117	0.002721802	0.012042358
ENSMMUG00000055290	netrin 1 [Source:NCBI gene;Acc:717645]	0.833204362	0.005433776	0.021585824
ENSMMUG00000003233	SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]	0.834217686	0.000153592	0.001045295
ENSMMUG00000015115	terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]	0.834506645	0.00012905	0.000897655
ENSMMUG00000056613		0.835427218	0.00049644	0.002883624
ENSMMUG00000021753	tetratricopeptide repeat domain 25 [Source:NCBI gene;Acc:708614]	0.836408612	0.000329509	0.002015928
ENSMMUG00000042077	DNA damage regulated autophagy modulator 1 [Source:NCBI gene;Acc:697427]	0.837279657	0.000128992	0.000897655
ENSMMUG00000003744	solute carrier family 44 member 2 [Source:VGNC Symbol;Acc:VGNC:77498]	0.837308566	8.80E-05	0.000650232
ENSMMUG00000045970	thiamine triphosphatase [Source:NCBI gene;Acc:714403]	0.838931013	5.23E-06	5.37E-05
ENSMMUG00000000237	TBC1 domain family member 1 [Source:VGNC Symbol;Acc:VGNC:78103]	0.841572868	0.002125938	0.00980484
ENSMMUG00000054768		0.842014549	0.002861016	0.012576805
ENSMMUG00000007268	thimet oligopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78347]	0.844929757	0.002859398	0.012574189
ENSMMUG00000006295	matrix metalloproteinase 19 [Source:VGNC Symbol;Acc:VGNC:74896]	0.845437409	0.003734984	0.015818985
ENSMMUG00000047621	transmembrane 4 L six family member 18 [Source:VGNC Symbol;Acc:VGNC:82713]	0.845525111	4.65E-07	6.09E-06
ENSMMUG00000051619	peptidyl arginine deiminase 3 [Source:NCBI gene;Acc:700560]	0.846996048	9.10E-06	8.83E-05
ENSMMUG00000061825	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.847937888	0.005700034	0.022426093
ENSMMUG00000065276		0.849760035	0.000320334	0.001970581
ENSMMUG00000031024	lactate dehydrogenase A [Source:NCBI gene;Acc:694309]	0.84984042	0.00666523	0.025497149
ENSMMUG00000038898	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.849977235	0.004072432	0.016996354
ENSMMUG00000012223	branched chain amino acid transaminase 1 [Source:VGNC Symbol;Acc:VGNC:70236]	0.851455099	5.02E-06	5.19E-05

ENSMMUG00000056175		0.851625869	0.000971532	0.005111775
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	0.851839192	0.000230766	0.001487333
ENSMMUG00000018653	keratin, type I cytoskeletal 19 [Source:NCBI gene;Acc:707129]	0.85372825	0.014909382	0.048866992
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	0.854414047	0.00039087	0.002329567
ENSMMUG00000019826	MYC associated zinc finger protein [Source:NCBI gene;Acc:708982]	0.856311985	0.001666064	0.007974139
ENSMMUG00000004996	monooxygenase DBH like 1 [Source:VGNC Symbol;Acc:VGNC:74800]	0.85889007	0.000501057	0.002906321
ENSMMUG00000015868	retinol dehydrogenase 11 [Source:NCBI gene;Acc:711195]	0.85890025	0.000110259	0.000786327
ENSMMUG00000011858	bone morphogenetic protein 5 [Source:VGNC Symbol;Acc:VGNC:70264]	0.85997156	0.002576207	0.011495622
ENSMMUG00000018879	exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]	0.860581456	0.0009661	0.00508537
ENSMMUG00000050918		0.86679175	0.00312594	0.013576302
ENSMMUG00000052242		0.867061829	0.006808664	0.025940884
ENSMMUG00000022514	coiled-coil domain containing 186 [Source:VGNC Symbol;Acc:VGNC:70847]	0.867087378	4.55E-05	0.000366797
ENSMMUG00000014571	protocadherin alpha-C2 [Source:NCBI gene;Acc:698874]	0.867758363	1.20E-06	1.44E-05
ENSMMUG00000016114	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:VGNC Symbol;Acc:VGNC:71279]	0.870082106	7.99E-05	0.000598225
ENSMMUG00000003075	coiled-coil domain containing 9 [Source:VGNC Symbol;Acc:VGNC:70851]	0.872288659	0.002216624	0.010139384
ENSMMUG00000001917	megakaryocyte-associated tyrosine kinase [Source:NCBI gene;Acc:100430078]	0.877847635	0.004304825	0.017767159
ENSMMUG00000005793	ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]	0.880138645	0.010499081	0.03678569
ENSMMUG00000054072		0.88127678	5.62E-05	0.000443206
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	0.88256761	3.03E-07	4.15E-06
ENSMMUG00000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	0.882847487	4.03E-05	0.000330273
ENSMMUG00000032677	microRNA 760 [Source:HGNC Symbol;Acc:HGNC:33666]	0.882882731	0.003554375	0.015142747
ENSMMUG00000050018		0.883212681	0.004842333	0.019578219
ENSMMUG00000065221		0.883383568	5.94E-05	0.000465686
ENSMMUG00000020979	inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]	0.883572149	0.007791198	0.028939745
ENSMMUG00000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]	0.884561188	3.11E-05	0.000264094
ENSMMUG00000065269	Rho family GTPase 2 [Source:NCBI gene;Acc:712559]	0.885167492	0.010714946	0.037339781
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	0.885636561	7.53E-05	0.000570941
ENSMMUG00000002381	lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]	0.886349787	6.17E-07	7.88E-06
ENSMMUG00000011328	cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]	0.888040874	0.006102791	0.023654811
ENSMMUG00000021938	nudE neurodevelopment protein 1 like 1 [Source:VGNC Symbol;Acc:VGNC:74982]	0.888154897	0.000497472	0.002886886
ENSMMUG00000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	0.889979835	5.74E-06	5.82E-05
ENSMMUG00000064610	long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]	0.8904013	0.006566468	0.025189905
ENSMMUG00000064763		0.890430383	0.012348043	0.041855982
ENSMMUG00000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]	0.890474962	5.94E-08	9.28E-07
ENSMMUG00000065113		0.892201841	0.009333751	0.033426903
ENSMMUG00000059754		0.892561328	0.00693622	0.026272135
ENSMMUG00000043955	three prime repair exonuclease 1 [Source:VGNC Symbol;Acc:VGNC:82708]	0.893226071	0.000189448	0.001263433
ENSMMUG00000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	0.898408518	0.000232797	0.001498067
ENSMMUG00000057979	growth differentiation factor 5 [Source:NCBI gene;Acc:705432]	0.899148777	9.67E-05	0.00070341
ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	0.899636651	0.002863491	0.012583187
ENSMMUG00000052046		0.904475394	0.000321263	0.001974271
ENSMMUG00000004913	mitotic deacetylase associated SANT domain protein [Source:VGNC Symbol;Acc:VGNC:72073]	0.90492346	0.000202568	0.001327875
ENSMMUG00000049145	creatine kinase B [Source:NCBI gene;Acc:711167]	0.905343209	0.003150286	0.013667551
ENSMMUG00000001879	annexin A10 [Source:VGNC Symbol;Acc:VGNC:69945]	0.905464904	0.007471778	0.027913563
ENSMMUG00000007603	coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]	0.905740798	0.005235252	0.020966594
ENSMMUG00000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]	0.906596632	1.20E-06	1.44E-05
ENSMMUG00000004122	microtubule associated protein tau [Source:NCBI gene;Acc:574327]	0.908105841	0.000199242	0.001313076
ENSMMUG00000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]	0.909566457	4.52E-06	4.72E-05
ENSMMUG00000043114	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.911063503	0.011258411	0.038815463
ENSMMUG00000016001	vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]	0.912193231	0.001422304	0.006998215
ENSMMUG00000005086	homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]	0.912278242	0.01170936	0.040033309

ENSMMUG00000021868	TNF receptor associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79019]	0.913707878	5.56E-05	0.00043984
ENSMMUG00000064485	ubiquitin A-52 residue ribosomal protein fusion product 1 [Source:NCBI gene;Acc:720243]	0.914099366	0.003485083	0.014894002
ENSMMUG00000053617	torsin 1A interacting protein 2 [Source:NCBI gene;Acc:716691]	0.914112967	4.27E-05	0.000346271
ENSMMUG00000002063	endoplasmic reticulum aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:72066]	0.915307195	0.000143902	0.000990314
ENSMMUG00000056646		0.915386781	0.013274068	0.044443357
ENSMMUG00000018274	FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]	0.915470886	0.000160246	0.001083651
ENSMMUG00000045179	1-acylglycerol-3-phosphate O-acyltransferase 3 [Source:NCBI gene;Acc:713301]	0.91552689	0.000403398	0.002394091
ENSMMUG00000042951	signal recognition particle 19 [Source:NCBI gene;Acc:693829]	0.91576677	0.00076842	0.004189988
ENSMMUG00000009725	triadin [Source:HGNC Symbol;Acc:HGNC:12261]	0.917027494	6.92E-06	6.90E-05
ENSMMUG00000055016	keratin, type II cytoskeletal 6A [Source:NCBI gene;Acc:719283]	0.917615565	1.05E-07	1.57E-06
ENSMMUG00000009487	zinc finger protein 205 [Source:VGNC Symbol;Acc:VGNC:78869]	0.919544256	3.22E-05	0.000272189
ENSMMUG00000006936	gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]	0.919730246	3.82E-05	0.000314229
ENSMMUG00000051450	phospholipase A2 receptor 1 [Source:NCBI gene;Acc:700191]	0.920937954	3.48E-05	0.000290658
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	0.921622515	0.000196823	0.00129992
ENSMMUG00000006620	casein kinase 1 gamma 2 [Source:NCBI gene;Acc:709484]	0.923363403	0.006117152	0.023695529
ENSMMUG00000008637	WD repeat containing antisense to TP53 [Source:VGNC Symbol;Acc:VGNC:79508]	0.924308861	0.009590298	0.034176385
ENSMMUG00000002995	tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]	0.925219164	0.000598832	0.003377809
ENSMMUG00000003139	Rho guanine nucleotide exchange factor 17 [Source:VGNC Symbol;Acc:VGNC:69880]	0.925300145	0.002952814	0.01292487
ENSMMUG00000001083	glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]	0.925627376	2.64E-05	0.000227883
ENSMMUG00000004847	xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]	0.925638181	2.81E-05	0.000240957
ENSMMUG00000014110	adhesion G protein-coupled receptor D2 [Source:VGNC Symbol;Acc:VGNC:69462]	0.92576981	7.91E-07	9.83E-06
ENSMMUG00000020970	zinc finger protein 213 [Source:VGNC Symbol;Acc:VGNC:78872]	0.925956315	4.29E-05	0.000347632
ENSMMUG00000011069	CDC like kinase 3 [Source:VGNC Symbol;Acc:VGNC:71260]	0.927770477	0.01084874	0.037720469
ENSMMUG00000020173	bactericidal permeability increasing protein [Source:VGNC Symbol;Acc:VGNC:70277]	0.929368162	1.48E-05	0.000136335
ENSMMUG00000019223	TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]	0.930741009	0.002229025	0.010180954
ENSMMUG00000010141	family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]	0.931751104	0.000159965	0.001082672
ENSMMUG00000053488	small integral membrane protein 19 [Source:NCBI gene;Acc:705371]	0.932615638	4.69E-06	4.87E-05
ENSMMUG00000060572		0.932654558	0.006342724	0.024446038
ENSMMUG00000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]	0.933607527	1.55E-06	1.81E-05
ENSMMUG00000021812	ERCC excision repair 8, CSA ubiquitin ligase complex subunit [Source:VGNC Symbol;Acc:VGNC:72425]	0.933869717	2.53E-05	0.000219243
ENSMMUG00000053191		0.933912139	1.03E-05	9.88E-05
ENSMMUG00000001154	U8 snoRNA-decapping enzyme-like [Source:NCBI gene;Acc:717946]	0.93503852	0.000522961	0.003016287
ENSMMUG00000003839	mitogen-activated protein kinase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74613]	0.937003673	0.003895346	0.016407711
ENSMMUG00000018166	MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]	0.938708094	0.001359356	0.00673432
ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	0.938938607	5.12E-08	8.10E-07
ENSMMUG00000037449	CUGBP Elav-like family member 2 [Source:NCBI gene;Acc:714291]	0.939363096	0.001068555	0.005506754
ENSMMUG00000004520	NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]	0.939769029	0.000586196	0.003320707
ENSMMUG00000015663	adaptor related protein complex 3 subunit delta 1 [Source:VGNC Symbol;Acc:VGNC:69969]	0.939833504	0.000823645	0.004451811
ENSMMUG00000016104	chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]	0.940768608	0.000149865	0.001023326
ENSMMUG00000050661		0.940853301	4.04E-05	0.000330636
ENSMMUG00000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]	0.941101073	1.46E-06	1.72E-05
ENSMMUG00000051230		0.941153419	0.000352679	0.002137462
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	0.942406884	0.000261667	0.00164593
ENSMMUG00000022481	cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]	0.943521899	6.24E-05	0.000484547
ENSMMUG00000005959	glycerol kinase [Source:NCBI gene;Acc:707531]	0.944388705	0.000248065	0.001574878
ENSMMUG00000002371	myosin IC [Source:VGNC Symbol;Acc:VGNC:75112]	0.945137061	0.000235723	0.001513483
ENSMMUG00000057850		0.945693961	0.010604989	0.037082764
ENSMMUG00000038858		0.946073329	2.52E-06	2.80E-05
ENSMMUG00000054123	vesicle transport through interaction with t-SNAREs 1A [Source:NCBI gene;Acc:696654]	0.947814644	0.001800854	0.008513193
ENSMMUG00000003764	TBC1 domain family member 22A [Source:VGNC Symbol;Acc:VGNC:82077]	0.94878665	0.00071341	0.003942681
ENSMMUG00000057543	MyoD family inhibitor domain containing 2 [Source:HGNC Symbol;Acc:HGNC:53442]	0.949563503	0.000698945	0.003873187

ENSMMUG00000057841	keratin 86 [Source:NCBI gene;Acc:697770]	0.95040854	0.002733362	0.012067441
ENSMMUG00000012538	ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]	0.95111149	0.004094178	0.01708131
ENSMMUG00000011043	endoplasmic reticulum aminopeptidase 2 [Source:VGNC Symbol;Acc:VGNC:72141]	0.951407717	2.06E-09	4.17E-08
ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	0.951681043	7.61E-05	0.000575047
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	0.952549716	3.48E-05	0.000290683
ENSMMUG00000060496	translocase of outer mitochondrial membrane 40 like [Source:NCBI gene;Acc:100426891]	0.952607216	0.012746794	0.042994195
ENSMMUG00000055907		0.954167331	0.000128707	0.000896546
ENSMMUG00000016093	adenosine deaminase RNA specific [Source:VGNC Symbol;Acc:VGNC:69502]	0.95548074	0.000578626	0.00328494
ENSMMUG00000054573		0.957426534	0.001936722	0.009068284
ENSMMUG00000050047	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.95752362	0.001175242	0.005959118
ENSMMUG00000057560		0.960075941	6.65E-06	6.66E-05
ENSMMUG00000018787	PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]	0.960234269	0.001407508	0.006928186
ENSMMUG00000016410	acyl-CoA binding domain containing 5 [Source:VGNC Symbol;Acc:VGNC:69509]	0.960465089	0.007975615	0.029486457
ENSMMUG00000062394	C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]	0.960784914	0.002503019	0.011211591
ENSMMUG00000058275	arrestin domain containing 5 [Source:NCBI gene;Acc:697277]	0.961852575	0.001499386	0.007318884
ENSMMUG00000062048		0.961923851	3.74E-06	3.97E-05
ENSMMUG00000037887	RBMX like 1 [Source:NCBI gene;Acc:100424767]	0.962689006	2.55E-05	0.000220521
ENSMMUG00000021904	cell division cycle 45 [Source:VGNC Symbol;Acc:VGNC:70800]	0.96391411	0.004485298	0.018376264
ENSMMUG00000045187	CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]	0.964698657	5.98E-05	0.000467686
ENSMMUG00000008771	lysine demethylase 2A [Source:VGNC Symbol;Acc:VGNC:73824]	0.964727967	0.000260041	0.001636542
ENSMMUG00000020603	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]	0.965094643	1.06E-07	1.58E-06
ENSMMUG00000017280	TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]	0.966382967	0.010341985	0.036338862
ENSMMUG00000022798	aspartyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:71708]	0.967054053	0.000368905	0.002216134
ENSMMUG00000020657	patched domain containing 3 [Source:VGNC Symbol;Acc:VGNC:76310]	0.967319345	0.00651517	0.02500873
ENSMMUG00000029296	phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]	0.968698197	0.002653373	0.01178201
ENSMMUG00000014413	slingshot protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:78018]	0.969931725	1.12E-06	1.36E-05
ENSMMUG00000053072		0.970237596	0.000236984	0.001517861
ENSMMUG00000021891	kinesin light chain 3 [Source:VGNC Symbol;Acc:VGNC:73870]	0.971484757	0.002068939	0.009599596
ENSMMUG00000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]	0.971892667	4.86E-05	0.000389998
ENSMMUG00000013253	protein tyrosine phosphatase non-receptor type 11 [Source:NCBI gene;Acc:712044]	0.97222042	0.006230679	0.024089737
ENSMMUG00000056022		0.973988611	0.001446328	0.007090871
ENSMMUG00000064430		0.974999559	0.00157074	0.007583116
ENSMMUG00000018235	chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]	0.975375706	0.013771607	0.045735429
ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]	0.977614192	2.44E-05	0.000212669
ENSMMUG00000000458	RNA binding protein, mRNA processing factor [Source:VGNC Symbol;Acc:VGNC:76510]	0.980119945	0.00473154	0.01921221
ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]	0.981179525	0.001699991	0.008127029
ENSMMUG00000015160	Rap guanine nucleotide exchange factor like 1 [Source:VGNC Symbol;Acc:VGNC:76501]	0.98330929	0.000839334	0.004520705
ENSMMUG00000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	0.985299618	5.61E-07	7.22E-06
ENSMMUG00000055156		0.98671269	0.00763985	0.028437733
ENSMMUG00000058873		0.986758443	0.004906151	0.019809956
ENSMMUG00000059196		0.987081561	7.96E-05	0.000596364
ENSMMUG00000008790	zinc finger MIZ-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79036]	0.98722297	0.00129283	0.006451119
ENSMMUG00000055122		0.987883347	0.000112146	0.000798143
ENSMMUG00000006763	cytochrome c oxidase subunit IV isoform 1 [Source:NCBI gene;Acc:693811]	0.988271751	8.46E-06	8.26E-05
ENSMMUG00000059300		0.988655082	0.002913266	0.012774509
ENSMMUG00000016276	tripartite motif containing 72 [Source:VGNC Symbol;Acc:VGNC:79927]	0.989215838	0.005298898	0.021152566
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	0.993962734	1.23E-05	0.000115666
ENSMMUG00000053458	ORMDL sphingolipid biosynthesis regulator 2 [Source:NCBI gene;Acc:710296]	0.994069657	8.05E-07	9.97E-06
ENSMMUG00000004000	collagen type XXIII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:22990]	0.994861176	0.005400353	0.021459989
ENSMMUG00000031106	ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]	0.996024535	1.11E-08	1.97E-07
ENSMMUG00000017946	rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]	0.996481518	1.97E-06	2.26E-05

ENSMMUG00000041919	nuclear respiratory factor 1 [Source:VGNC Symbol;Acc:VGNC:81731]	0.997391165	0.000354187	0.002144489
ENSMMUG00000062995		0.997901537	0.000273473	0.001711436
ENSMMUG00000003611	low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:74248]	0.998780093	0.009271101	0.033280111
ENSMMUG00000017533	interferon induced protein with tetratricopeptide repeats 1 [Source:NCBI gene;Acc:695683]	0.998789757	0.005289111	0.021131224
ENSMMUG00000055239		0.998825426	2.37E-05	0.000207463
ENSMMUG00000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.998866761	3.78E-06	4.01E-05
ENSMMUG00000005548	N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]	1.001899769	1.07E-06	1.30E-05
ENSMMUG00000010420	makorin ring finger protein 1 [Source:VGNC Symbol;Acc:VGNC:81476]	1.00301607	0.000836257	0.004508619
ENSMMUG00000020588	protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]	1.005340322	3.88E-09	7.46E-08
ENSMMUG00000023225	E2F transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:72027]	1.006190948	0.000116137	0.000822256
ENSMMUG00000018255	nuclear factor of activated T cells 5 [Source:VGNC Symbol;Acc:VGNC:75325]	1.006361092	1.04E-05	9.89E-05
ENSMMUG00000049866		1.006882679	2.95E-05	0.000251675
ENSMMUG00000013048	junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]	1.006890143	4.17E-05	0.000340104
ENSMMUG00000021082	potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]	1.008233373	1.03E-07	1.54E-06
ENSMMUG00000057134	keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]	1.011231085	0.006856525	0.026050558
ENSMMUG00000015303	ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]	1.013092045	3.16E-08	5.19E-07
ENSMMUG00000009494	carboxypeptidase A5 [Source:VGNC Symbol;Acc:VGNC:71410]	1.013342313	0.009524298	0.033990459
ENSMMUG00000021928	CAP-Gly domain containing linker protein 1 [Source:VGNC Symbol;Acc:VGNC:71166]	1.013377167	0.000840704	0.004526103
ENSMMUG00000051937	uncharacterized LOC707807 [Source:NCBI gene;Acc:707807]	1.013446302	0.002827192	0.012445924
ENSMMUG00000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	1.014126176	1.96E-05	0.000174826
ENSMMUG00000061995		1.014498519	6.42E-08	9.92E-07
ENSMMUG00000019041	hydroxysteroid 17-beta dehydrogenase 11 [Source:VGNC Symbol;Acc:VGNC:73431]	1.015264754	0.006911429	0.02619438
ENSMMUG00000008566	zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]	1.016347877	5.31E-05	0.000421828
ENSMMUG00000003669	methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]	1.017644105	4.29E-05	0.000347632
ENSMMUG00000002930	G protein-coupled receptor 158 [Source:NCBI gene;Acc:707065]	1.017657452	0.000772017	0.004204193
ENSMMUG00000032030	dolichyldiphosphatase 1 [Source:VGNC Symbol;Acc:VGNC:71947]	1.018286973	0.004067393	0.016981089
ENSMMUG00000012001	transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]	1.018475436	0.002726258	0.012049062
ENSMMUG00000008106	solute carrier family 25 member 17 [Source:NCBI gene;Acc:705547]	1.018736323	0.004278821	0.017695322
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.018831289	0.000108299	0.000773895
ENSMMUG00000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	1.019032501	5.78E-06	5.85E-05
ENSMMUG00000012466	BCL2 binding component 3 [Source:NCBI gene;Acc:717955]	1.019947444	0.000373118	0.002238162
ENSMMUG00000016652	cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]	1.021222383	6.30E-05	0.000487492
ENSMMUG00000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]	1.021387562	0.001081231	0.005560425
ENSMMUG00000049952		1.021894365	1.53E-05	0.000140899
ENSMMUG00000017026	fibrosin like 1 [Source:NCBI gene;Acc:696295]	1.022649667	0.000108185	0.000773533
ENSMMUG00000019835	CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]	1.023559276	0.002030599	0.00943595
ENSMMUG00000019172	spectrin beta, erythrocytic [Source:VGNC Symbol;Acc:VGNC:77870]	1.024817041	0.001094955	0.005621594
ENSMMUG00000005270	ryanodine receptor 3 [Source:NCBI gene;Acc:694996]	1.025257649	2.25E-09	4.50E-08
ENSMMUG00000019668	armadillo repeat containing 6 [Source:VGNC Symbol;Acc:VGNC:69899]	1.025651771	0.005124327	0.020609655
ENSMMUG00000053710		1.027924585	1.56E-05	0.000143525
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]	1.02800188	3.80E-07	5.08E-06
ENSMMUG00000021418	ATPase H+ transporting V1 subunit D [Source:VGNC Symbol;Acc:VGNC:70060]	1.028706845	0.000948452	0.005013946
ENSMMUG00000005776	atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]	1.029523263	0.000103243	0.000742948
ENSMMUG00000019945	fibroblast growth factor receptor 3 [Source:VGNC Symbol;Acc:VGNC:72653]	1.030102177	0.001096957	0.005627171
ENSMMUG00000013560	calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]	1.031543931	1.17E-05	0.000110235
ENSMMUG00000048463	apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]	1.035377151	2.18E-05	0.000192592
ENSMMUG00000008091	RUN domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77101]	1.038831217	0.015238302	0.049732865
ENSMMUG00000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	1.039395125	2.18E-07	3.06E-06
ENSMMUG00000003140	RELT TNF receptor [Source:VGNC Symbol;Acc:VGNC:76728]	1.039505531	1.27E-05	0.000118736
ENSMMUG00000005622	dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]	1.040277208	0.006621366	0.025366042
ENSMMUG00000056343		1.041006252	0.001799301	0.008509125

ENSMMUG00000005521	glycogenin 1 [Source:VGNC Symbol;Acc:VGNC:73332]	1.043452025	1.01E-05	9.73E-05
ENSMMUG00000009176	calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]	1.04392981	0.001744415	0.008278228
ENSMMUG00000007760	centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]	1.04520863	1.92E-05	0.000171812
ENSMMUG000000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	1.045332063	0.00019294	0.001282543
ENSMMUG00000001105	purinergic receptor P2Y12 [Source:VGNC Symbol;Acc:VGNC:75642]	1.048191699	9.79E-05	0.000710965
ENSMMUG000000060780		1.050192433	2.31E-07	3.22E-06
ENSMMUG000000054090		1.054734222	0.007198383	0.02702362
ENSMMUG00000015054	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:69844]	1.056826284	0.000300639	0.00186624
ENSMMUG00000014010	RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]	1.057121294	1.14E-05	0.000108245
ENSMMUG000000054175		1.058199618	8.20E-08	1.25E-06
ENSMMUG00000005455	ring finger protein 213 [Source:VGNC Symbol;Acc:VGNC:76734]	1.059828615	0.000330901	0.002023432
ENSMMUG00000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]	1.061712668	0.001500638	0.007322091
ENSMMUG000000020488	receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]	1.061991976	4.87E-06	5.04E-05
ENSMMUG000000052238		1.064364152	3.77E-06	4.01E-05
ENSMMUG000000060967		1.064787039	0.001092635	0.005612028
ENSMMUG000000019095	TBC1 domain family member 24 [Source:NCBI gene;Acc:697106]	1.065323582	8.49E-05	0.000631959
ENSMMUG000000019607	patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]	1.066474419	0.000340131	0.002069578
ENSMMUG000000049374		1.06662903	1.11E-05	0.00010506
ENSMMUG000000019500	methenyltetrahydrofolate synthetase domain containing [Source:VGNC Symbol;Acc:VGNC:75023]	1.067681314	0.000991727	0.005191362
ENSMMUG000000062248	follicular dendritic cell secreted protein [Source:NCBI gene;Acc:707784]	1.069056489	0.00596537	0.023239083
ENSMMUG000000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	1.069907548	1.69E-08	2.92E-07
ENSMMUG000000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	1.074107594	1.24E-09	2.61E-08
ENSMMUG000000021044	afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]	1.075024169	1.33E-07	1.94E-06
ENSMMUG000000064122		1.075322676	0.000777328	0.004229366
ENSMMUG000000013193	matrix metalloproteinase 16 [Source:VGNC Symbol;Acc:VGNC:74894]	1.076310314	1.33E-06	1.58E-05
ENSMMUG00000004224	poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]	1.077982078	1.02E-05	9.79E-05
ENSMMUG000000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]	1.07970368	0.001035827	0.005374144
ENSMMUG000000048207	syntaxin 4 [Source:NCBI gene;Acc:704880]	1.080003243	5.83E-05	0.000457214
ENSMMUG000000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	1.080260772	1.64E-09	3.37E-08
ENSMMUG000000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	1.081380005	2.72E-09	5.35E-08
ENSMMUG000000053496		1.081692893	0.002150749	0.009882188
ENSMMUG000000014407	magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]	1.08173433	0.00014737	0.001009094
ENSMMUG000000009199	glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]	1.081991638	0.00199392	0.00929362
ENSMMUG000000012007	PH domain and leucine rich repeat protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:81494]	1.08224674	0.002285797	0.010417028
ENSMMUG000000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	1.083692795	0.001087029	0.005587903
ENSMMUG000000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	1.083939059	6.89E-08	1.06E-06
ENSMMUG000000060484	heterogeneous nuclear ribonucleoprotein D [Source:NCBI gene;Acc:694867]	1.08560031	0.000137533	0.000951277
ENSMMUG000000023025	synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]	1.085992497	3.78E-07	5.06E-06
ENSMMUG000000002181	SFI1 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]	1.086431232	4.35E-07	5.72E-06
ENSMMUG000000001538	GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]	1.08677814	1.52E-07	2.20E-06
ENSMMUG000000061431	outer dense fiber of sperm tails 3 like 1 [Source:NCBI gene;Acc:706545]	1.086847376	0.001212042	0.006115436
ENSMMUG000000051323	caspase-14-like [Source:NCBI gene;Acc:702430]	1.087716514	8.74E-05	0.000646483
ENSMMUG000000041198	muscle RAS oncogene homolog [Source:NCBI gene;Acc:716352]	1.08848887	0.01169875	0.040008162
ENSMMUG000000010043	epidermal growth factor [Source:VGNC Symbol;Acc:VGNC:72171]	1.088570993	0.001509568	0.007356897
ENSMMUG000000003913	DNA polymerase epsilon 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76204]	1.090901013	0.000413451	0.002443137
ENSMMUG000000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	1.09138275	1.26E-06	1.50E-05
ENSMMUG000000045959		1.09172231	0.00112313	0.005739874
ENSMMUG000000022345		1.092029962	0.004565833	0.01863788
ENSMMUG00000002033	serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]	1.092936154	6.28E-09	1.17E-07
ENSMMUG000000020172	KIAA1755 [Source:VGNC Symbol;Acc:VGNC:73942]	1.092997585	4.96E-06	5.13E-05
ENSMMUG000000000194	solute carrier family 27 member 1 [Source:VGNC Symbol;Acc:VGNC:77438]	1.09854597	2.91E-05	0.000248362

ENSMMUG00000011817	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	1.099600109	1.72E-07	2.47E-06
ENSMMUG00000051072		1.101262476	6.74E-05	0.000518334
ENSMMUG00000005982	coiled-coil domain containing 84 [Source:NCBI gene;Acc:707400]	1.101498365	0.00123775	0.006223267
ENSMMUG00000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	1.101778007	1.53E-06	1.79E-05
ENSMMUG00000013966	legumain [Source:VGNC Symbol;Acc:VGNC:74274]	1.103128905	0.000113208	0.000803834
ENSMMUG00000011413	acid sensing ion channel subunit 2 [Source:VGNC Symbol;Acc:VGNC:70241]	1.104872891	0.003326048	0.014318234
ENSMMUG00000022346	surfeit 2 [Source:VGNC Symbol;Acc:VGNC:78059]	1.105557599	0.00992975	0.035185115
ENSMMUG00000015607	solute carrier family 39 member 13 [Source:VGNC Symbol;Acc:VGNC:77538]	1.106481593	0.001299852	0.006478702
ENSMMUG00000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]	1.10814798	2.10E-07	2.97E-06
ENSMMUG00000004843	sodium voltage-gated channel beta subunit 1 [Source:VGNC Symbol;Acc:VGNC:76983]	1.109423896	1.30E-05	0.000121717
ENSMMUG00000018648	zinc finger protein 594 [Source:NCBI gene;Acc:711492]	1.11179462	0.005042492	0.020307101
ENSMMUG00000006692	signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]	1.112586654	0.001958538	0.009145
ENSMMUG00000038349	crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]	1.11262888	7.57E-09	1.39E-07
ENSMMUG00000042839		1.114259853	5.22E-06	5.37E-05
ENSMMUG00000052324	MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]	1.11471343	0.000480814	0.002810121
ENSMMUG00000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	1.115850413	7.27E-10	1.60E-08
ENSMMUG00000060555		1.116565432	0.001012262	0.005280862
ENSMMUG00000044822	coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]	1.118194476	3.01E-07	4.12E-06
ENSMMUG00000056906		1.121057013	2.39E-06	2.67E-05
ENSMMUG00000060596	BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]	1.121545838	0.000184718	0.001235911
ENSMMUG00000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	1.123244905	1.59E-10	3.87E-09
ENSMMUG00000005380	zinc finger protein 827 [Source:NCBI gene;Acc:706018]	1.123945781	0.00028693	0.001788363
ENSMMUG00000053364		1.124363483	0.001338353	0.006649027
ENSMMUG00000022348	surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]	1.124653593	0.000947027	0.005008569
ENSMMUG00000013044	selectin P [Source:VGNC Symbol;Acc:VGNC:77157]	1.124982617	8.96E-05	0.000658848
ENSMMUG00000064026	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.125595441	0.000551058	0.003154659
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]	1.126771447	1.19E-09	2.53E-08
ENSMMUG00000016085	KxDL motif containing 1 [Source:NCBI gene;Acc:720235]	1.128055175	1.74E-05	0.00015776
ENSMMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	1.130708304	6.21E-07	7.92E-06
ENSMMUG00000015999	interferon induced protein 35 [Source:VGNC Symbol;Acc:VGNC:73564]	1.131104065	0.004951502	0.019966835
ENSMMUG00000005486	protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]	1.131281074	0.000146126	0.001002251
ENSMMUG00000005480	carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	1.133243584	2.47E-11	6.70E-10
ENSMMUG00000062175	carboxypeptidase B1 [Source:NCBI gene;Acc:712639]	1.133954625	6.02E-05	0.000469537
ENSMMUG00000022246	PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]	1.134056693	0.000677109	0.003762362
ENSMMUG00000010858	prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]	1.134749276	0.008279887	0.030378534
ENSMMUG00000058237		1.13554598	1.34E-05	0.000124963
ENSMMUG00000019703	RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]	1.135600131	8.94E-08	1.35E-06
ENSMMUG00000015306	calponin 2 [Source:NCBI gene;Acc:721164]	1.136212966	2.41E-09	4.81E-08
ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	1.137518293	8.00E-06	7.84E-05
ENSMMUG00000059777		1.138252333	2.20E-06	2.48E-05
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	1.138586567	7.80E-05	0.000586043
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	1.138807531	4.29E-08	6.90E-07
ENSMMUG00000003314	aquaporin 3 (Gill blood group) [Source:NCBI gene;Acc:702721]	1.141279711	0.002368825	0.010727794
ENSMMUG00000011527	TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]	1.141349931	0.000714118	0.00394305
ENSMMUG00000008336	acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]	1.141650118	8.65E-12	2.53E-10
ENSMMUG00000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	1.142336387	2.25E-06	2.53E-05
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	1.142614307	5.43E-11	1.41E-09
ENSMMUG00000060917		1.145665564	2.03E-05	0.000180177
ENSMMUG00000053916		1.150464767	2.28E-06	2.55E-05
ENSMMUG00000048066	trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]	1.152510392	3.26E-05	0.000274757
ENSMMUG00000021005	taste receptor type 2 member 50 [Source:NCBI gene;Acc:693513]	1.152626296	0.009852735	0.034979769

ENSMMUG0000005845	REST corepressor 1 [Source:VGNC Symbol;Acc:VGNC:76752]	1.153879045	0.000489164	0.00284944
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]	1.15593937	2.19E-12	7.36E-11
ENSMMUG00000057675	non-compact myelin associated protein [Source:NCBI gene;Acc:712192]	1.156334947	0.009077511	0.032718972
ENSMMUG00000014674	golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]	1.157043978	2.02E-05	0.00017903
ENSMMUG00000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]	1.157862976	9.54E-06	9.22E-05
ENSMMUG00000056227	PRAME family member 17 [Source:NCBI gene;Acc:715953]	1.160218707	0.013098503	0.044011401
ENSMMUG00000059895		1.160895474	0.001560504	0.0075453
ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	1.161721095	1.76E-11	4.84E-10
ENSMMUG00000012940	tRNA phosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:79242]	1.163428696	4.23E-05	0.000343767
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	1.163995149	1.58E-05	0.000144505
ENSMMUG00000053254	adenylate kinase 4 [Source:NCBI gene;Acc:698560]	1.165416235	6.87E-08	1.06E-06
ENSMMUG00000049862		1.167435767	0.007924987	0.029330327
ENSMMUG00000049666		1.167447171	5.62E-05	0.000443206
ENSMMUG00000050263	TBC1 domain family member 26-like [Source:NCBI gene;Acc:100426631]	1.16764503	0.001640184	0.007877884
ENSMMUG00000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	1.168175441	0.000101787	0.000733759
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	1.168438338	6.23E-06	6.26E-05
ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]	1.168789549	1.24E-05	0.000116235
ENSMMUG00000062055	glyoxalase I [Source:NCBI gene;Acc:719518]	1.168986568	1.12E-07	1.65E-06
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	1.169131702	6.42E-07	8.16E-06
ENSMMUG00000023361	GDNF family receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:72918]	1.169356262	0.000397828	0.002364458
ENSMMUG00000064242		1.171537535	7.39E-05	0.00056137
ENSMMUG00000060754	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.171636225	1.88E-06	2.16E-05
ENSMMUG00000005483	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	1.171915805	3.00E-06	3.26E-05
ENSMMUG00000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.174286381	1.11E-07	1.64E-06
ENSMMUG00000060562		1.175553783	0.000852695	0.004574626
ENSMMUG00000006293	SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]	1.175915317	1.03E-06	1.25E-05
ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	1.17847083	9.08E-09	1.64E-07
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	1.180611993	0.00015347	0.001045044
ENSMMUG00000054472		1.181672017	9.76E-06	9.41E-05
ENSMMUG00000000196	niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]	1.185610286	0.00726204	0.027237635
ENSMMUG00000000389	nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]	1.185724511	9.42E-05	0.000688622
ENSMMUG00000019083	solute carrier family 9 member B2 [Source:VGNC Symbol;Acc:VGNC:77773]	1.187134499	7.61E-05	0.000575047
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]	1.189025068	8.89E-09	1.61E-07
ENSMMUG00000052424		1.189820239	1.53E-06	1.79E-05
ENSMMUG00000053989		1.190043672	1.51E-06	1.77E-05
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	1.191355784	1.32E-11	3.73E-10
ENSMMUG00000034608	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.191571925	0.007165278	0.026920285
ENSMMUG00000063947	oxoeicosanoid receptor 1 [Source:NCBI gene;Acc:713039]	1.192351096	8.81E-05	0.000650452
ENSMMUG00000049514	solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]	1.192598485	6.72E-05	0.000516824
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	1.193434753	3.47E-05	0.000290389
ENSMMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]	1.194191319	3.14E-07	4.28E-06
ENSMMUG00000049548		1.19699924	0.000148979	0.001018408
ENSMMUG00000015108	SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]	1.198564931	1.19E-05	0.000112028
ENSMMUG00000016454	4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]	1.198988192	4.17E-08	6.72E-07
ENSMMUG00000011209	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	1.200864322	3.96E-05	0.000324945
ENSMMUG00000053656		1.201068126	3.73E-05	0.000307731
ENSMMUG00000058096	CDKN2A interacting protein N-terminal like [Source:NCBI gene;Acc:710774]	1.201498563	0.0067852	0.025897784
ENSMMUG00000013099	pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]	1.202716858	0.011579433	0.039699528
ENSMMUG00000054568		1.202771627	0.002080509	0.009649636
ENSMMUG00000019925	DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]	1.204050764	7.73E-06	7.61E-05
ENSMMUG00000009318	BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]	1.205446326	9.32E-09	1.68E-07

ENSMMUG00000057452		1.205504729	0.001587602	0.007658247
ENSMMUG00000005685	pseudouridine synthase 10 [Source:VGNC Symbol;Acc:VGNC:76547]	1.206347083	0.000309098	0.001911026
ENSMMUG00000009953	ninein like [Source:VGNC Symbol;Acc:VGNC:75273]	1.210277755	0.000156601	0.001062244
ENSMMUG00000012841	kallikrein 3 [Source:NCBI gene;Acc:719444]	1.210890992	0.001706529	0.008145609
ENSMMUG000000055379		1.211157926	0.000183955	0.001231475
ENSMMUG00000009577	atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]	1.211813897	8.27E-13	3.02E-11
ENSMMUG00000022504	alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]	1.214193945	4.96E-05	0.000396882
ENSMMUG00000003482	glycine receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:73075]	1.214931804	0.00138044	0.006816788
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]	1.215639907	0.000447942	0.002629251
ENSMMUG00000017619	lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]	1.215937293	4.31E-07	5.67E-06
ENSMMUG00000022961	solute carrier family 11 member 2 [Source:VGNC Symbol;Acc:VGNC:77383]	1.21763852	0.001008781	0.005264936
ENSMMUG00000006941	exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]	1.21812359	3.64E-08	5.93E-07
ENSMMUG00000016686	BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]	1.21825461	5.45E-08	8.60E-07
ENSMMUG00000015572	GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]	1.219299155	2.36E-05	0.000206573
ENSMMUG00000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]	1.221831176	1.13E-11	3.22E-10
ENSMMUG00000040268	phosphatidylinositol transfer protein alpha [Source:NCBI gene;Acc:721228]	1.22534784	7.64E-05	0.000575397
ENSMMUG00000053200	ubiquitin conjugating enzyme E2 R2 [Source:NCBI gene;Acc:701507]	1.225843995	0.000758567	0.004141958
ENSMMUG00000006405	secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]	1.226341415	0.002138294	0.009842568
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	1.230300783	4.29E-07	5.66E-06
ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	1.231189951	0.001428228	0.007018932
ENSMMUG00000004417	secretion associated Ras related GTPase 1B [Source:VGNC Symbol;Acc:VGNC:76970]	1.23248102	2.16E-07	3.04E-06
ENSMMUG00000059428	olfactory receptor 2V2 [Source:NCBI gene;Acc:707790]	1.232481891	0.014578268	0.047935123
ENSMMUG00000015924	BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]	1.232734221	2.25E-05	0.000198115
ENSMMUG00000042886	ETS variant transcription factor 3 [Source:NCBI gene;Acc:719741]	1.232979139	0.004371227	0.01798686
ENSMMUG00000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	1.233358411	2.57E-09	5.11E-08
ENSMMUG00000011588	myosin IXB [Source:HGNC Symbol;Acc:HGNC:7609]	1.233740671	4.03E-05	0.000330273
ENSMMUG00000000582	NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]	1.234166902	4.73E-05	0.000379979
ENSMMUG000000060533		1.234600993	7.54E-07	9.44E-06
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	1.235632176	0.000880545	0.004705554
ENSMMUG000000057953		1.237227677	0.001470137	0.007193256
ENSMMUG000000062178	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.237666163	0.011099254	0.038410497
ENSMMUG00000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	1.237996377	0.000425071	0.002505781
ENSMMUG000000054512		1.238609392	0.008800176	0.031925315
ENSMMUG00000020583	FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]	1.238732655	2.70E-06	2.96E-05
ENSMMUG000000053378		1.238893648	6.42E-05	0.000496337
ENSMMUG00000020258	E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]	1.240392843	5.86E-08	9.17E-07
ENSMMUG00000039301	StAR related lipid transfer domain containing 10 [Source:NCBI gene;Acc:718503]	1.240974938	0.003248583	0.014029632
ENSMMUG00000023192	choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]	1.24370148	0.008619468	0.031371596
ENSMMUG00000009825	zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]	1.245174868	2.79E-07	3.83E-06
ENSMMUG000000055048		1.246382668	1.30E-07	1.89E-06
ENSMMUG00000005440	ELMO domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72109]	1.247514341	0.014393771	0.047468162
ENSMMUG00000014409	ankyrin repeat domain 13B [Source:VGNC Symbol;Acc:VGNC:69708]	1.249669268	0.001918873	0.009001857
ENSMMUG00000016457	DM1 protein kinase [Source:NCBI gene;Acc:715328]	1.251659329	0.00197664	0.009220068
ENSMMUG00000011767	carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]	1.253067622	4.63E-05	0.000373016
ENSMMUG00000042378	pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]	1.253249558	1.11E-10	2.73E-09
ENSMMUG00000044265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.253479323	0.000106778	0.000765698
ENSMMUG000000056009		1.255546226	3.09E-07	4.21E-06
ENSMMUG00000001534	calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]	1.256157151	3.12E-08	5.14E-07
ENSMMUG00000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]	1.257897102	5.97E-07	7.63E-06
ENSMMUG00000023018	RP2 activator of ARL3 GTPase [Source:VGNC Symbol;Acc:VGNC:76720]	1.257923062	0.000580672	0.003293513
ENSMMUG000000052476	zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]	1.257988808	5.72E-10	1.28E-08

ENSMMUG00000022933	DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]	1.258344991	1.01E-13	4.17E-12
ENSMMUG00000020916	coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]	1.260065692	2.76E-11	7.41E-10
ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	1.261052555	0.001049674	0.005425375
ENSMMUG00000010949	SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]	1.261588136	7.09E-07	8.94E-06
ENSMMUG00000015476	unc-13 homolog A [Source:NCBI gene;Acc:720000]	1.264241187	2.65E-09	5.24E-08
ENSMMUG00000015288	adaptor related protein complex 3 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:69867]	1.264556825	0.000777261	0.004229366
ENSMMUG00000055601		1.265885838	3.21E-12	1.02E-10
ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	1.268650677	5.62E-08	8.85E-07
ENSMMUG00000053489		1.269506599	0.001075101	0.005531214
ENSMMUG00000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	1.270419949	2.81E-08	4.67E-07
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]	1.272788343	3.67E-06	3.91E-05
ENSMMUG00000064920		1.273913212	2.46E-08	4.14E-07
ENSMMUG00000000023	prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]	1.275470308	8.73E-05	0.000646483
ENSMMUG00000063495		1.275899857	1.78E-10	4.29E-09
ENSMMUG00000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	1.276509341	3.16E-08	5.19E-07
ENSMMUG00000020009	receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]	1.27735686	0.000257903	0.001624748
ENSMMUG00000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	1.277633067	1.07E-07	1.60E-06
ENSMMUG00000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	1.278009737	1.16E-07	1.71E-06
ENSMMUG00000061021		1.278096687	0.004449666	0.018252735
ENSMMUG00000050119		1.278962879	4.88E-08	7.76E-07
ENSMMUG00000018029	amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]	1.278964979	2.38E-08	4.03E-07
ENSMMUG00000011061	ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]	1.279087915	1.19E-11	3.38E-10
ENSMMUG00000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.279094062	9.33E-05	0.000683995
ENSMMUG00000006819	helicase for meiosis 1 [Source:NCBI gene;Acc:704516]	1.280095163	1.80E-05	0.000162491
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	1.28037847	6.56E-05	0.000505458
ENSMMUG00000019988	homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]	1.281065587	9.92E-05	0.000717702
ENSMMUG00000054377		1.28115275	3.85E-11	1.02E-09
ENSMMUG00000060712		1.281328983	2.60E-08	4.33E-07
ENSMMUG00000056729	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.283083648	2.44E-05	0.000212669
ENSMMUG00000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	1.283990772	7.16E-07	9.02E-06
ENSMMUG00000023761	ectonucleoside triphosphate diphosphohydrolase 7 [Source:VGNC Symbol;Acc:VGNC:72071]	1.284434012	1.25E-07	1.84E-06
ENSMMUG00000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	1.2847455	8.48E-10	1.84E-08
ENSMMUG00000014425	protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]	1.285507581	0.000170944	0.001148757
ENSMMUG00000015908	RB binding protein 6, ubiquitin ligase [Source:VGNC Symbol;Acc:VGNC:76677]	1.28574135	2.91E-06	3.18E-05
ENSMMUG00000004014	interferon regulatory factor 7 [Source:VGNC Symbol;Acc:VGNC:73765]	1.285866259	0.000124723	0.000874286
ENSMMUG00000038076	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.286740526	0.005386474	0.021418684
ENSMMUG00000060502		1.287921257	0.000112991	0.00080293
ENSMMUG00000010536	discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]	1.289074118	4.39E-10	9.94E-09
ENSMMUG00000008510	THAP domain containing 9 [Source:VGNC Symbol;Acc:VGNC:79379]	1.29004017	0.002141273	0.009848834
ENSMMUG00000056186		1.290747276	0.005258994	0.021020585
ENSMMUG00000004512	Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]	1.291102734	0.007418263	0.027754839
ENSMMUG00000004765	Sp2 transcription factor [Source:VGNC Symbol;Acc:VGNC:77845]	1.292581017	1.58E-05	0.000144811
ENSMMUG00000062316	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.293001183	3.39E-07	4.60E-06
ENSMMUG00000018566	Janus kinase 1 [Source:VGNC Symbol;Acc:VGNC:73810]	1.293872163	0.002360365	0.010701308
ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]	1.296441815	1.74E-07	2.49E-06
ENSMMUG00000050132		1.297918793	0.000129379	0.00089943
ENSMMUG00000062397		1.298822666	2.34E-07	3.26E-06
ENSMMUG00000001532	glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]	1.306792868	3.23E-17	2.28E-15
ENSMMUG00000037243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.307596901	0.005666688	0.022337802
ENSMMUG00000060812	autophagy related 12 [Source:NCBI gene;Acc:696765]	1.308429507	1.66E-06	1.93E-05
ENSMMUG00000004471	family with sequence similarity 114 member A1 [Source:VGNC Symbol;Acc:VGNC:72342]	1.310499732	0.011424152	0.039243782

ENSMMUG00000039520	chromosome 11 C12orf43 homolog [Source:NCBI gene;Acc:698821]	1.311001506	3.62E-06	3.87E-05
ENSMMUG00000002953	MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]	1.311846839	0.001796229	0.008497866
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	1.312103184	1.86E-08	3.20E-07
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]	1.313414199	5.20E-10	1.17E-08
ENSMMUG000000038998	purinergic receptor P2Y13 [Source:VGNC Symbol;Acc:VGNC:83950]	1.317014821	0.00020088	0.001319625
ENSMMUG000000037977	protein phosphatase 1 regulatory inhibitor subunit 14B [Source:NCBI gene;Acc:722103]	1.318028171	0.007713208	0.028676055
ENSMMUG00000006470	complement C1r subcomponent [Source:NCBI gene;Acc:722133]	1.318623598	5.67E-11	1.46E-09
ENSMMUG000000052607		1.31891391	5.82E-14	2.54E-12
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	1.320072235	1.82E-09	3.71E-08
ENSMMUG000000056950		1.320207666	5.09E-13	1.89E-11
ENSMMUG000000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	1.322327862	5.19E-14	2.30E-12
ENSMMUG000000049123	gastrokine 1 [Source:NCBI gene;Acc:706565]	1.323496054	0.006922496	0.026228236
ENSMMUG000000022590	metallophosphoesterase domain containing 1 [Source:NCBI gene;Acc:715021]	1.325151141	0.001656906	0.007937558
ENSMMUG000000035748	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.326484211	0.007535204	0.028107798
ENSMMUG000000010203	protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]	1.327425931	6.18E-05	0.000480121
ENSMMUG00000007540	Rho related BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76772]	1.327520272	4.20E-05	0.000341764
ENSMMUG000000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	1.328875462	3.25E-08	5.32E-07
ENSMMUG000000015922	formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]	1.329386991	9.63E-10	2.07E-08
ENSMMUG000000012787	acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]	1.329959184	0.012877309	0.043374897
ENSMMUG00000008184	methyltransferase like 24 [Source:VGNC Symbol;Acc:VGNC:74552]	1.330309788	0.000293278	0.00182594
ENSMMUG00000001616	peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]	1.330653457	0.001328839	0.006607105
ENSMMUG000000015873	RAD51 paralog B [Source:VGNC Symbol;Acc:VGNC:76647]	1.330902849	0.010945752	0.03799329
ENSMMUG000000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	1.331163799	1.06E-05	0.000101341
ENSMMUG000000001715	zinc finger protein 627 [Source:VGNC Symbol;Acc:VGNC:79856]	1.331653287	3.21E-09	6.24E-08
ENSMMUG000000063322		1.331715861	9.77E-07	1.19E-05
ENSMMUG000000019837	ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]	1.333824518	2.46E-06	2.73E-05
ENSMMUG000000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	1.334311392	8.63E-11	2.17E-09
ENSMMUG000000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]	1.334771073	2.06E-06	2.35E-05
ENSMMUG000000049494		1.336392589	0.009044202	0.032637193
ENSMMUG000000002324		1.337145626	4.90E-07	6.38E-06
ENSMMUG000000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]	1.337689702	1.33E-08	2.34E-07
ENSMMUG000000006101	myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]	1.338382806	6.29E-07	8.01E-06
ENSMMUG000000052474		1.338937905	0.000567291	0.003231033
ENSMMUG000000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	1.339248762	7.01E-06	6.99E-05
ENSMMUG000000042407		1.339307178	0.009896209	0.035093569
ENSMMUG000000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]	1.340604221	0.000883746	0.004716512
ENSMMUG000000048076	TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650]	1.340791715	3.46E-07	4.69E-06
ENSMMUG000000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	1.342810766	9.78E-06	9.42E-05
ENSMMUG000000003355	lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]	1.342867277	3.08E-08	5.07E-07
ENSMMUG000000060675		1.343058175	9.85E-06	9.48E-05
ENSMMUG000000012942	DnaJ heat shock protein family (Hsp40) member C4 [Source:NCBI gene;Acc:717847]	1.345375711	0.005587852	0.022083031
ENSMMUG000000063462		1.34882339	0.00395556	0.016621466
ENSMMUG000000001880	DExD/H-box helicase 60 [Source:VGNC Symbol;Acc:VGNC:71711]	1.349038403	9.66E-10	2.07E-08
ENSMMUG000000015477	lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]	1.349117154	1.45E-07	2.11E-06
ENSMMUG000000055893		1.349795549	8.33E-05	0.000621479
ENSMMUG000000006766	RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]	1.350296255	1.64E-05	0.000149058
ENSMMUG000000014291	SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]	1.350307057	7.41E-07	9.28E-06
ENSMMUG000000010201	atrophin 1 [Source:VGNC Symbol;Acc:VGNC:70157]	1.350407025	7.53E-05	0.00057079
ENSMMUG000000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	1.350560447	5.22E-12	1.58E-10
ENSMMUG000000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]	1.351623363	1.61E-09	3.33E-08
ENSMMUG000000007799	LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]	1.353029361	0.004793986	0.019420857

ENSMMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]	1.353894736	1.63E-09	3.36E-08
ENSMMUG00000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	1.354581681	6.88E-11	1.76E-09
ENSMMUG00000049998	tachykinin receptor 3 [Source:NCBI gene;Acc:653013]	1.354788793	0.005567982	0.022033506
ENSMMUG00000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	1.355265983	1.68E-11	4.65E-10
ENSMMUG00000013892	coiled-coil domain containing 77 [Source:VGNC Symbol;Acc:VGNC:70889]	1.357966882	0.00695479	0.026326249
ENSMMUG00000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]	1.35983556	1.07E-11	3.08E-10
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	1.361549845	9.39E-07	1.15E-05
ENSMMUG00000062628		1.36249271	2.40E-05	0.000210227
ENSMMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]	1.362753578	2.42E-05	0.000211497
ENSMMUG00000015861	cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]	1.363026087	2.21E-06	2.49E-05
ENSMMUG00000000588	rhomboid 5 homolog 1 [Source:NCBI gene;Acc:693423]	1.363692324	0.008476402	0.030981252
ENSMMUG00000005939	serpin family I member 1 [Source:VGNC Symbol;Acc:VGNC:77366]	1.364021984	0.011787181	0.040265769
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]	1.365390828	9.64E-09	1.74E-07
ENSMMUG00000007401	arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]	1.365536848	2.55E-05	0.000220521
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	1.366756357	1.60E-14	7.51E-13
ENSMMUG00000056024		1.368764384	6.69E-10	1.48E-08
ENSMMUG00000001949	coiled-coil domain containing 191 [Source:VGNC Symbol;Acc:VGNC:70901]	1.368987795	0.006019704	0.023391774
ENSMMUG00000050419	ADAM metallopeptidase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]	1.371415363	2.84E-05	0.000243511
ENSMMUG00000014131	microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]	1.371605803	0.000723629	0.00398304
ENSMMUG00000015329	MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]	1.37209148	0.006149546	0.023798511
ENSMMUG00000023636	importin 7 [Source:NCBI gene;Acc:704213]	1.372913874	0.000836723	0.004508619
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	1.374143737	2.13E-08	3.62E-07
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	1.376002503	2.63E-07	3.64E-06
ENSMMUG00000061684		1.377156814	0.001781001	0.008429067
ENSMMUG00000013766	prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]	1.378828799	2.76E-07	3.80E-06
ENSMMUG00000016255	telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]	1.380450684	3.58E-05	0.00029769
ENSMMUG00000057486		1.381617106	5.97E-05	0.000467523
ENSMMUG00000058187		1.383054678	1.09E-10	2.70E-09
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	1.384314644	2.20E-10	5.27E-09
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	1.384471066	1.30E-06	1.55E-05
ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	1.386038967	6.97E-09	1.29E-07
ENSMMUG00000042870	Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]	1.386244815	0.002035023	0.009452937
ENSMMUG00000013646	unk zinc finger [Source:VGNC Symbol;Acc:VGNC:79803]	1.38636754	7.47E-06	7.36E-05
ENSMMUG00000064612	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.390176703	0.000232058	0.001494093
ENSMMUG00000051677		1.392664793	3.06E-06	3.32E-05
ENSMMUG00000005236	zinc finger protein 709 [Source:NCBI gene;Acc:717515]	1.392960593	0.00312113	0.013560201
ENSMMUG00000029638	chromosome 7 C15orf65 homolog [Source:VGNC Symbol;Acc:VGNC:70689]	1.393484997	0.000314498	0.001942461
ENSMMUG00000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]	1.395106446	3.48E-11	9.23E-10
ENSMMUG00000003067	endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]	1.396084885	2.84E-09	5.55E-08
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	1.400398214	9.69E-06	9.35E-05
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]	1.40135085	2.02E-17	1.47E-15
ENSMMUG00000023300	FERM domain containing 8 [Source:NCBI gene;Acc:716379]	1.401956656	0.002732787	0.012067441
ENSMMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]	1.404835765	4.13E-07	5.49E-06
ENSMMUG00000002397	GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]	1.405236071	0.000155821	0.001057532
ENSMMUG00000060901		1.4061116	5.60E-15	2.87E-13
ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.406178508	1.96E-14	9.07E-13
ENSMMUG00000053937		1.407165508	3.25E-06	3.51E-05
ENSMMUG00000017242	MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]	1.408052956	0.005487874	0.021772581
ENSMMUG00000045203		1.408915334	0.000987767	0.005177244
ENSMMUG00000001483	RNA pseudouridine synthase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77091]	1.412285863	0.00759454	0.028290885
ENSMMUG00000029420		1.413581077	0.008658219	0.031484665

ENSMMUG00000018788	transmembrane protein 14B [Source:NCBI gene;Acc:698237]	1.418134161	3.32E-06	3.58E-05
ENSMMUG00000058352		1.419677667	0.003284769	0.014175946
ENSMMUG00000061165		1.420256236	4.67E-08	7.46E-07
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	1.421149006	4.84E-13	1.81E-11
ENSMMUG00000015611	proteasome 26S subunit, ATPase 3 [Source:NCBI gene;Acc:713356]	1.421951202	0.002402442	0.010848058
ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	1.422889063	1.55E-11	4.31E-10
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	1.424173398	6.34E-12	1.90E-10
ENSMMUG00000059374		1.424693727	0.014285896	0.047224604
ENSMMUG00000054398		1.427001999	0.000122774	0.000862789
ENSMMUG00000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	1.428691853	1.35E-05	0.00012528
ENSMMUG00000011528	F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]	1.428726185	8.76E-05	0.000647633
ENSMMUG00000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]	1.429120898	1.99E-09	4.04E-08
ENSMMUG00000020489	HscB mitochondrial iron-sulfur cluster cochaperone [Source:VGNC Symbol;Acc:VGNC:73454]	1.430736484	6.85E-07	8.67E-06
ENSMMUG00000008651	FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]	1.432801538	2.72E-08	4.52E-07
ENSMMUG00000059897	myosin light chain 9 [Source:NCBI gene;Acc:709784]	1.432897355	0.004865729	0.019659658
ENSMMUG00000059491		1.433617007	2.08E-07	2.95E-06
ENSMMUG00000052184	inka box actin regulator 2 [Source:NCBI gene;Acc:704844]	1.434852857	0.000561946	0.00320791
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	1.435653472	8.77E-12	2.56E-10
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]	1.437350955	0.000495819	0.002881375
ENSMMUG00000055256	family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]	1.437467299	3.74E-07	5.02E-06
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	1.438244804	3.90E-08	6.31E-07
ENSMMUG00000005729	GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]	1.44058632	6.27E-08	9.70E-07
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	1.444715521	1.00E-08	1.80E-07
ENSMMUG00000061335		1.446097807	2.70E-05	0.000231839
ENSMMUG00000014864	VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]	1.446509903	3.54E-06	3.80E-05
ENSMMUG00000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	1.446658129	2.76E-08	4.58E-07
ENSMMUG00000022931	NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]	1.446910748	4.16E-07	5.51E-06
ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]	1.448936854	7.35E-06	7.27E-05
ENSMMUG00000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]	1.449049149	3.63E-06	3.88E-05
ENSMMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]	1.44921047	4.59E-12	1.40E-10
ENSMMUG00000049935		1.450141449	3.16E-05	0.000267583
ENSMMUG00000059671		1.450527702	1.43E-09	2.99E-08
ENSMMUG00000022801	zinc finger and BTB domain containing 37 [Source:VGNC Symbol;Acc:VGNC:79702]	1.450630081	0.011903877	0.040607979
ENSMMUG00000059608	fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]	1.450686053	3.91E-06	4.14E-05
ENSMMUG00000005532	male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]	1.450714962	1.19E-06	1.43E-05
ENSMMUG00000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]	1.453689999	0.006125875	0.02371437
ENSMMUG00000003548	tectorin beta [Source:VGNC Symbol;Acc:VGNC:78306]	1.45820416	0.007595795	0.028290885
ENSMMUG00000065208		1.45841096	0.000242469	0.001546544
ENSMMUG00000002952	laminin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:74229]	1.459953897	0.007985296	0.0295091
ENSMMUG00000018478	interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]	1.460431458	7.05E-05	0.000540167
ENSMMUG00000000039	mitochondrial ribosomal protein L24 [Source:VGNC Symbol;Acc:VGNC:74739]	1.460459817	0.00837222	0.030667216
ENSMMUG00000015513	CUGBP Elav-like family member 5 [Source:NCBI gene;Acc:721694]	1.460665123	0.012843667	0.043273439
ENSMMUG00000049297		1.460705912	4.36E-10	9.90E-09
ENSMMUG00000065212		1.460961876	2.71E-05	0.000232585
ENSMMUG00000061785		1.461797152	3.94E-12	1.23E-10
ENSMMUG00000052073		1.463256886	1.67E-06	1.93E-05
ENSMMUG00000052348		1.46852923	7.05E-07	8.90E-06
ENSMMUG00000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]	1.468882623	1.01E-07	1.52E-06
ENSMMUG00000014986	testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]	1.469064937	2.08E-06	2.36E-05
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	1.470330702	2.77E-09	5.43E-08
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	1.470385853	3.58E-15	1.91E-13

ENSMMUG00000058241	leucine rich repeat and Ig domain containing 3 [Source:NCBI gene;Acc:721484]	1.470791863	6.40E-05	0.000494352
ENSMMUG00000052851	solute carrier family 7 member 5 [Source:NCBI gene;Acc:695886]	1.470841411	6.54E-05	0.000504945
ENSMMUG00000021642	fibromodulin [Source:VGNC Symbol;Acc:VGNC:72686]	1.471094654	0.002714905	0.012024828
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	1.471768892	1.65E-12	5.66E-11
ENSMMUG00000000198	collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]	1.473286008	2.84E-11	7.61E-10
ENSMMUG00000018485	methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]	1.47402662	0.001227324	0.00617986
ENSMMUG00000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	1.474329096	5.70E-19	4.93E-17
ENSMMUG00000050511		1.475206548	0.005391506	0.02143176
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	1.476626798	3.40E-07	4.62E-06
ENSMMUG00000011774	integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	1.478397741	1.92E-13	7.64E-12
ENSMMUG00000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]	1.478415305	8.32E-07	1.03E-05
ENSMMUG00000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	1.4790799	1.18E-06	1.42E-05
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.480665881	5.58E-12	1.68E-10
ENSMMUG00000004816	membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]	1.480687973	7.16E-06	7.11E-05
ENSMMUG00000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	1.481958604	6.07E-06	6.11E-05
ENSMMUG00000063121		1.48455479	6.40E-14	2.77E-12
ENSMMUG00000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]	1.484902936	2.49E-06	2.77E-05
ENSMMUG00000050585		1.486722376	0.000225145	0.001456453
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	1.487414697	3.96E-07	5.27E-06
ENSMMUG00000052832		1.487982057	0.002441422	0.010992179
ENSMMUG00000032858	mml-mir-583 [Source:miRBase;Acc:MI0007850]	1.48814561	0.008642667	0.03144672
ENSMMUG00000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]	1.488561141	1.83E-09	3.72E-08
ENSMMUG00000054803		1.488610163	0.000196178	0.001297056
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	1.489181041	4.45E-06	4.65E-05
ENSMMUG00000044581	modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]	1.489980749	8.71E-05	0.000644995
ENSMMUG00000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	1.490268645	1.55E-06	1.81E-05
ENSMMUG00000027544	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.49029924	0.004143118	0.017250697
ENSMMUG00000059292		1.49100459	4.97E-11	1.29E-09
ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	1.494094958	5.54E-12	1.68E-10
ENSMMUG00000013696	myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]	1.495173383	1.92E-05	0.000172064
ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	1.496160495	1.41E-08	2.46E-07
ENSMMUG00000049543		1.496272365	0.002439249	0.010990035
ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	1.496646447	0.000117273	0.000829481
ENSMMUG00000018471	serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]	1.49664932	0.008304731	0.030451505
ENSMMUG00000007140	MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]	1.500742768	0.010992407	0.038090687
ENSMMUG00000054184	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.500841226	7.10E-10	1.57E-08
ENSMMUG00000013901	mitogen-activated protein kinase kinase kinase 3 [Source:VGNC Symbol;Acc:VGNC:81466]	1.50151213	2.28E-05	0.00020041
ENSMMUG00000010922	hyaluronan synthase 3 [Source:VGNC Symbol;Acc:VGNC:73348]	1.502551885	0.009424529	0.033726706
ENSMMUG00000008518	phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]	1.503983568	2.19E-09	4.41E-08
ENSMMUG00000049913		1.505328086	0.009822076	0.034901166
ENSMMUG00000049802	olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]	1.508134501	4.78E-05	0.000383794
ENSMMUG00000054784		1.50873019	4.12E-05	0.000336828
ENSMMUG00000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	1.509682874	2.28E-07	3.20E-06
ENSMMUG00000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	1.511454225	4.95E-09	9.33E-08
ENSMMUG00000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	1.512956015	1.63E-08	2.83E-07
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	1.514390226	1.38E-19	1.36E-17
ENSMMUG00000016376	mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]	1.514806114	0.000112381	0.000799345
ENSMMUG00000057038		1.514996715	0.009274392	0.033282204
ENSMMUG00000053990		1.515259745	0.004450691	0.018252735
ENSMMUG00000060760		1.516165354	2.47E-05	0.000214756
ENSMMUG00000064226		1.516926187	0.004844248	0.019579302

ENSMMUG00000015928	ankyrin repeat domain 13D [Source:VGNC Symbol;Acc:VGNC:69722]	1.517566203	0.007135693	0.026837454
ENSMMUG00000014508	potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]	1.517995879	1.46E-06	1.72E-05
ENSMMUG00000003106	SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]	1.51866591	6.36E-07	8.09E-06
ENSMMUG00000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	1.51962015	1.40E-09	2.93E-08
ENSMMUG00000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]	1.519926662	2.12E-12	7.15E-11
ENSMMUG00000022407	serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]	1.520005043	0.000130564	0.000906136
ENSMMUG00000057703		1.520615871	3.15E-05	0.00026702
ENSMMUG00000045256	cellular communication network factor 5 [Source:NCBI gene;Acc:717872]	1.522654554	0.009075821	0.032718972
ENSMMUG00000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]	1.523112864	6.15E-08	9.54E-07
ENSMMUG00000059932	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.524631615	0.006622702	0.025366042
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	1.527002574	1.83E-15	9.94E-14
ENSMMUG00000062208	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.527104996	0.000957912	0.005053089
ENSMMUG00000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	1.529509561	1.14E-10	2.81E-09
ENSMMUG00000014411	coronin 6 [Source:NCBI gene;Acc:711818]	1.533436483	1.76E-06	2.03E-05
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	1.536992584	2.79E-11	7.48E-10
ENSMMUG00000053257	Y RNA [Source:RFAM;Acc:RF00019]	1.537715523	6.61E-10	1.47E-08
ENSMMUG00000047219		1.538699303	5.04E-06	5.21E-05
ENSMMUG00000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	1.538948072	9.93E-09	1.78E-07
ENSMMUG00000058800		1.541257755	2.68E-06	2.95E-05
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	1.541302585	3.41E-05	0.000286038
ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	1.541930385	6.45E-13	2.37E-11
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	1.546520498	1.52E-11	4.26E-10
ENSMMUG00000015871	zinc finger FYVE-type containing 26 [Source:VGNC Symbol;Acc:VGNC:79283]	1.547626448	0.000615122	0.003458587
ENSMMUG00000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	1.54866061	2.33E-10	5.54E-09
ENSMMUG00000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]	1.551184546	1.03E-12	3.69E-11
ENSMMUG00000053498		1.55161859	0.00055037	0.003152188
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]	1.551843962	1.77E-13	7.06E-12
ENSMMUG00000002278	AT-rich interaction domain 3A [Source:VGNC Symbol;Acc:VGNC:69930]	1.552554981	0.000128394	0.000895622
ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	1.552890129	2.20E-09	4.43E-08
ENSMMUG00000061244		1.554179673	0.012393517	0.041986968
ENSMMUG00000057160		1.555277509	0.000976069	0.005129446
ENSMMUG00000061836		1.556045404	0.000198436	0.001309866
ENSMMUG00000055324	homeobox B7 [Source:NCBI gene;Acc:697089]	1.557429544	1.19E-09	2.53E-08
ENSMMUG00000017607	NEDD4 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:75053]	1.558965578	0.000211343	0.001380974
ENSMMUG00000017458	DDB1 and CUL4 associated factor 12 [Source:VGNC Symbol;Acc:VGNC:71678]	1.559077801	0.001456003	0.00713546
ENSMMUG00000042510	coagulation factor V [Source:NCBI gene;Acc:704695]	1.5593685	1.54E-11	4.29E-10
ENSMMUG00000052828		1.559952814	2.91E-05	0.000248362
ENSMMUG00000058566		1.560916001	5.68E-13	2.10E-11
ENSMMUG00000052328	FAM20C golgi associated secretory pathway kinase [Source:NCBI gene;Acc:695088]	1.566678015	0.001165369	0.00591638
ENSMMUG00000004255	YLP motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79092]	1.569149946	0.000858939	0.004600094
ENSMMUG00000061526	synaptopodin 2 like [Source:NCBI gene;Acc:714736]	1.570401812	4.18E-08	6.73E-07
ENSMMUG00000008006	RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]	1.57182398	2.30E-08	3.90E-07
ENSMMUG00000019933	TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]	1.572037147	0.000822393	0.004447338
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	1.573180875	1.35E-06	1.60E-05
ENSMMUG00000009682	R3H domain containing 4 [Source:VGNC Symbol;Acc:VGNC:76554]	1.574195177	0.00012159	0.000855938
ENSMMUG00000012597	ubiquitin associated protein 2 [Source:VGNC Symbol;Acc:VGNC:78949]	1.574292552	0.000822455	0.004447338
ENSMMUG00000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	1.574547486	8.67E-11	2.18E-09
ENSMMUG00000006659	aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]	1.575117217	0.000727557	0.004000647
ENSMMUG00000056924	G protein-coupled receptor 149 [Source:NCBI gene;Acc:106997054]	1.575848202	0.000145473	0.000999559
ENSMMUG00000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	1.576545972	1.24E-05	0.000116714
ENSMMUG00000044496	H2A histone family, member X [Source:NCBI gene;Acc:703073]	1.581143138	5.08E-06	5.24E-05

ENSMMUG00000008081	ATP binding cassette subfamily G member 8 [Source:VGNC Symbol;Acc:VGNC:69392]	1.58242312	2.04E-05	0.000180491
ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]	1.583790215	6.01E-08	9.36E-07
ENSMMUG000000054286		1.585149812	0.000913902	0.004864776
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	1.585217433	7.36E-07	9.24E-06
ENSMMUG000000061576		1.586080555	0.010613492	0.037087058
ENSMMUG000000059134		1.590638384	0.003520874	0.015026084
ENSMMUG000000058472	late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]	1.591439869	0.003219348	0.013918049
ENSMMUG00000003439	nuclear factor I C [Source:VGNC Symbol;Acc:VGNC:75336]	1.593234113	0.000613703	0.003453764
ENSMMUG000000051975		1.596435384	6.29E-05	0.000487387
ENSMMUG000000057682		1.59672421	3.30E-11	8.79E-10
ENSMMUG000000055121	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.598277689	9.66E-07	1.18E-05
ENSMMUG00000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	1.598312943	1.56E-08	2.72E-07
ENSMMUG00000012529	pleckstrin homology domain containing A8 [Source:VGNC Symbol;Acc:VGNC:81741]	1.601302217	0.00035763	0.002159608
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	1.606395703	3.77E-12	1.18E-10
ENSMMUG00000048039	apurinic/aprimidinic endodeoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:84305]	1.607416972	0.002562676	0.011453762
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	1.609614401	6.08E-20	6.29E-18
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]	1.611087706	7.35E-07	9.22E-06
ENSMMUG00000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	1.613027746	8.00E-17	5.35E-15
ENSMMUG00000049551		1.61406411	0.001290996	0.006445019
ENSMMUG00000016894	ribosomal protein S25 [Source:NCBI gene;Acc:702593]	1.616656431	0.001524751	0.0074154
ENSMMUG00000056841		1.620094198	0.001545333	0.00749747
ENSMMUG00000023139	small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]	1.620106817	3.92E-07	5.22E-06
ENSMMUG00000057857		1.620199144	0.014367407	0.047406657
ENSMMUG00000058106	otoconin 90 [Source:NCBI gene;Acc:100429699]	1.621765362	1.86E-15	1.01E-13
ENSMMUG00000021486	secernin 2 [Source:NCBI gene;Acc:694571]	1.622450687	9.56E-05	0.000697434
ENSMMUG00000059371		1.624896791	0.004053838	0.016930248
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	1.625099767	4.31E-13	1.62E-11
ENSMMUG00000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	1.625130463	2.41E-07	3.35E-06
ENSMMUG00000048204	ephrin B3 [Source:NCBI gene;Acc:716257]	1.627065694	1.43E-09	2.99E-08
ENSMMUG00000059681		1.627790874	0.006966465	0.026337994
ENSMMUG00000058621		1.628260907	7.16E-11	1.83E-09
ENSMMUG00000050028		1.629681651	8.63E-08	1.31E-06
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	1.629868792	7.20E-20	7.38E-18
ENSMMUG00000051691		1.630072065	5.92E-06	5.99E-05
ENSMMUG00000020346	carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]	1.630273233	3.53E-10	8.11E-09
ENSMMUG00000011951	KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]	1.631425473	3.61E-05	0.000299881
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	1.633076007	1.40E-15	7.73E-14
ENSMMUG00000061833	transmembrane protein 251 [Source:NCBI gene;Acc:708131]	1.635581914	0.000208002	0.001362042
ENSMMUG00000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	1.636074937	1.41E-10	3.45E-09
ENSMMUG00000050104	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.636551384	2.95E-07	4.04E-06
ENSMMUG00000064005		1.638085274	0.000546418	0.003133938
ENSMMUG00000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.638837407	2.47E-09	4.91E-08
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	1.644547948	1.39E-14	6.66E-13
ENSMMUG00000005108	RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]	1.645131218	0.01314755	0.0441159
ENSMMUG00000017260	G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]	1.645293229	1.47E-14	6.98E-13
ENSMMUG00000062518		1.645754736	0.000199075	0.001313057
ENSMMUG00000058110		1.647420861	0.009232899	0.033201158
ENSMMUG00000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]	1.64973774	4.70E-05	0.000378145
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	1.651362243	1.51E-06	1.77E-05
ENSMMUG00000063658	leucine rich repeat neuronal 2 [Source:NCBI gene;Acc:100429709]	1.653532475	0.000103469	0.000743707
ENSMMUG00000023045	zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]	1.654774499	0.003708253	0.015711183

ENSMMUG00000015606	Spi-1 proto-oncogene [Source:NCBI gene;Acc:712010]	1.656367347	9.02E-06	8.76E-05
ENSMMUG00000008624	forkhead box P3 [Source:VGNC Symbol;Acc:VGNC:72926]	1.657961663	0.013559299	0.045176836
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	1.658199259	1.07E-19	1.06E-17
ENSMMUG00000016407	microtubule associated serine/threonine kinase like [Source:NCBI gene;Acc:708134]	1.658914081	0.009537987	0.034029434
ENSMMUG00000019830	Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]	1.659404574	1.09E-06	1.32E-05
ENSMMUG00000003658	autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]	1.660755655	0.000125529	0.000879131
ENSMMUG00000009974	inositol-tetrakisphosphate 1-kinase [Source:VGNC Symbol;Acc:VGNC:73802]	1.661116433	0.010579162	0.037013514
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	1.663157991	3.06E-14	1.39E-12
ENSMMUG00000056266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.663717412	0.003235644	0.013978666
ENSMMUG00000023048	cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]	1.665234813	7.57E-05	0.000573114
ENSMMUG00000060000		1.666731112	0.010332015	0.036314211
ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	1.667681199	3.05E-12	9.80E-11
ENSMMUG00000054449	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.668693682	0.004487253	0.01837815
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.668844573	2.90E-08	4.80E-07
ENSMMUG00000011472	PWWP domain containing 2A [Source:VGNC Symbol;Acc:VGNC:76564]	1.67141002	0.001906742	0.008948364
ENSMMUG00000055963		1.67175404	2.95E-08	4.87E-07
ENSMMUG00000015930	ADP ribosylation factor like GTPase 6 interacting protein 4 [Source:VGNC Symbol;Acc:VGNC:69860]	1.673382414	0.001650668	0.007915863
ENSMMUG00000005263	chromosome X CXorf38 homolog [Source:VGNC Symbol;Acc:VGNC:71600]	1.674531254	0.012092542	0.041160185
ENSMMUG00000055199	cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]	1.675551676	0.00170428	0.008138035
ENSMMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]	1.676773923	1.10E-05	0.000104857
ENSMMUG00000062474	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.677222549	6.58E-06	6.59E-05
ENSMMUG00000014720	NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]	1.677982303	5.71E-05	0.000449689
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]	1.678201024	1.39E-06	1.64E-05
ENSMMUG00000055012		1.680973966	0.010864978	0.037766246
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	1.683755627	2.75E-07	3.79E-06
ENSMMUG00000006997	thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]	1.684712446	2.33E-16	1.42E-14
ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	1.685843859	6.36E-16	3.70E-14
ENSMMUG00000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	1.686312895	4.42E-12	1.36E-10
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	1.687792148	2.80E-19	2.63E-17
ENSMMUG00000022406	ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]	1.687949523	6.02E-11	1.55E-09
ENSMMUG00000003268	alpha 1,3-galactosyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:69550]	1.689764062	0.00891351	0.032260293
ENSMMUG00000001745	oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]	1.690227705	1.06E-11	3.07E-10
ENSMMUG00000051420	homeobox B5 [Source:NCBI gene;Acc:696732]	1.690863079	7.48E-09	1.37E-07
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	1.691639333	5.49E-09	1.03E-07
ENSMMUG00000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	1.694898673	0.00037744	0.002258574
ENSMMUG00000004337	zinc finger protein 790 [Source:VGNC Symbol;Acc:VGNC:79930]	1.696051182	0.007894368	0.029247387
ENSMMUG00000011330	neuronal PAS domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75377]	1.696263932	9.42E-14	3.93E-12
ENSMMUG00000027375	Y RNA [Source:RFAM;Acc:RF00019]	1.696421474	0.000357914	0.002159608
ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	1.699342109	2.36E-10	5.57E-09
ENSMMUG00000006689	nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]	1.700162664	1.71E-06	1.98E-05
ENSMMUG00000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	1.700881684	6.94E-12	2.07E-10
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	1.701716738	9.43E-11	2.37E-09
ENSMMUG00000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	1.703438106	5.97E-18	4.50E-16
ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]	1.703569559	0.002507659	0.011228285
ENSMMUG00000062755		1.703995098	0.000252377	0.001597638
ENSMMUG00000050920	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.704070358	0.000624865	0.00350695
ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]	1.705913999	5.16E-20	5.42E-18
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	1.710671957	8.67E-09	1.57E-07
ENSMMUG00000010881	cytochrome P450, family 26, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:699519]	1.710824989	0.006059923	0.023518318
ENSMMUG00000009593	WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]	1.710878949	4.74E-09	8.96E-08
ENSMMUG00000009583	COP9 signalosome subunit 7A [Source:VGNC Symbol;Acc:VGNC:71185]	1.71130886	0.007166445	0.026920285

ENSMMUG00000053376		1.712441899	3.53E-06	3.79E-05
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	1.714156129	8.05E-10	1.76E-08
ENSMMUG00000022116	PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]	1.714419384	0.000976143	0.005129446
ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	1.714631279	4.63E-08	7.41E-07
ENSMMUG00000039009		1.717081373	2.25E-05	0.000198115
ENSMMUG00000055352		1.717182349	2.41E-18	1.91E-16
ENSMMUG00000055209		1.718427582	2.28E-10	5.45E-09
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	1.71848787	7.22E-08	1.10E-06
ENSMMUG00000012350	mercaptopyruvate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:74922]	1.718633984	4.48E-05	0.000361915
ENSMMUG00000008758	zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]	1.718669735	0.000511554	0.002960224
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	1.72039706	4.19E-12	1.30E-10
ENSMMUG00000051414	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.722510307	0.001882878	0.00885666
ENSMMUG00000062273	dephospho-CoA kinase domain containing [Source:NCBI gene;Acc:715841]	1.72347745	8.64E-05	0.000641231
ENSMMUG00000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	1.724435641	4.49E-15	2.35E-13
ENSMMUG00000004175	transient receptor potential cation channel subfamily M member 2 [Source:VGNC Symbol;Acc:VGNC:78655]	1.724926493	1.51E-05	0.000139628
ENSMMUG00000059984	pellino E3 ubiquitin protein ligase family member 2 [Source:NCBI gene;Acc:699169]	1.725931111	0.013677905	0.045520589
ENSMMUG00000053516		1.726572991	0.000486055	0.002838054
ENSMMUG00000001271	cleavage and polyadenylation specific factor 4 like [Source:NCBI gene;Acc:698279]	1.731209662	0.010291904	0.036256174
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]	1.731779271	2.47E-08	4.16E-07
ENSMMUG00000051170		1.733559184	7.12E-06	7.07E-05
ENSMMUG00000065025		1.734677934	1.64E-10	3.96E-09
ENSMMUG00000050057		1.7395612	2.74E-12	8.92E-11
ENSMMUG00000051879	CAP-Gly domain containing linker protein 3 [Source:NCBI gene;Acc:712058]	1.743760941	0.000202559	0.001327875
ENSMMUG00000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.747690727	4.00E-09	7.65E-08
ENSMMUG00000008538	microfibril associated protein 4 [Source:VGNC Symbol;Acc:VGNC:74710]	1.748583826	0.010978219	0.038062987
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	1.749267009	9.65E-07	1.18E-05
ENSMMUG00000017266	UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]	1.749830692	3.10E-09	6.04E-08
ENSMMUG00000017654	arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]	1.751923408	0.000428728	0.002523703
ENSMMUG00000021436	latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]	1.752956183	3.50E-08	5.71E-07
ENSMMUG00000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	1.753668085	1.43E-09	2.99E-08
ENSMMUG00000000590	NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]	1.754320119	0.001347774	0.006687723
ENSMMUG00000056555		1.754657107	1.68E-12	5.76E-11
ENSMMUG00000049305	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.755541911	0.000148931	0.001018408
ENSMMUG00000012697	AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]	1.756274257	2.53E-06	2.81E-05
ENSMMUG00000061123	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.75639456	0.002567032	0.011469064
ENSMMUG00000051329		1.758093794	0.000195994	0.001296533
ENSMMUG00000019667	TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]	1.75825343	0.000717937	0.003957022
ENSMMUG00000016655	R3H domain and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:76551]	1.75856544	3.73E-05	0.000307731
ENSMMUG00000029421	protein tyrosine phosphatase receptor type K [Source:VGNC Symbol;Acc:VGNC:83453]	1.760256919	0.000283506	0.001771517
ENSMMUG00000002483	citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]	1.760956073	2.61E-06	2.89E-05
ENSMMUG00000052134		1.764712033	0.00157207	0.007586304
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	1.768781722	8.54E-08	1.30E-06
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]	1.770616835	2.66E-10	6.22E-09
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	1.770667888	1.06E-13	4.35E-12
ENSMMUG00000051852	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.77080977	0.001062123	0.005482803
ENSMMUG00000061606	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.771752736	0.005328585	0.021233736
ENSMMUG00000006086	pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]	1.772055183	9.48E-06	9.17E-05
ENSMMUG00000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	1.772157333	1.80E-11	4.94E-10
ENSMMUG00000014277	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	1.773573241	1.48E-18	1.22E-16
ENSMMUG00000063112		1.773638912	0.000617408	0.003469848
ENSMMUG00000004042	Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]	1.774662033	0.011142159	0.038490242

ENSMMUG0000003105	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]	1.775093114	1.50E-14	7.11E-13
ENSMMUG00000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	1.775631796	9.75E-11	2.44E-09
ENSMMUG00000022109	CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]	1.776038301	2.97E-09	5.80E-08
ENSMMUG00000017627	B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	1.781713651	2.33E-21	3.19E-19
ENSMMUG00000014876	nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]	1.782494726	9.33E-06	9.03E-05
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]	1.785248942	1.16E-10	2.85E-09
ENSMMUG00000003827	albumin [Source:VGNC Symbol;Acc:VGNC:69782]	1.786963857	1.16E-09	2.47E-08
ENSMMUG00000015926	2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]	1.787387866	2.61E-06	2.89E-05
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	1.788230737	9.75E-13	3.50E-11
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.789203527	4.56E-14	2.04E-12
ENSMMUG00000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	1.78965596	1.61E-12	5.56E-11
ENSMMUG00000004910	dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]	1.791991037	3.24E-05	0.000272736
ENSMMUG00000064391		1.794271364	3.57E-11	9.47E-10
ENSMMUG00000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.795895942	3.76E-10	8.62E-09
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	1.797280447	7.82E-09	1.43E-07
ENSMMUG000000051363		1.798189053	2.30E-09	4.60E-08
ENSMMUG00000061079	golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]	1.798633625	1.18E-15	6.68E-14
ENSMMUG00000016414	ectonucleotide pyrophosphatase/phosphodiesterase 7 [Source:VGNC Symbol;Acc:VGNC:72090]	1.800023656	0.000923822	0.00490272
ENSMMUG00000020558	serine/threonine kinase 38 [Source:VGNC Symbol;Acc:VGNC:78155]	1.800499526	0.000217858	0.001419023
ENSMMUG00000010678	oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]	1.805104399	0.000304609	0.001888021
ENSMMUG00000063639		1.807694014	1.92E-06	2.20E-05
ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]	1.810081878	2.39E-12	7.94E-11
ENSMMUG00000011440	neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]	1.810717637	1.77E-05	0.000160439
ENSMMUG00000010363	ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]	1.811982072	1.85E-05	0.000166271
ENSMMUG00000022741	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]	1.812290179	2.68E-12	8.75E-11
ENSMMUG000000057363		1.812292954	0.000951338	0.005020564
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	1.814013642	5.15E-06	5.30E-05
ENSMMUG00000007204	cytochrome P450 family 2 subfamily W member 1 [Source:VGNC Symbol;Acc:VGNC:81300]	1.81660924	0.01112728	0.03846046
ENSMMUG00000002822	unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]	1.819227563	1.81E-09	3.70E-08
ENSMMUG00000022451	proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]	1.821882197	0.000255696	0.001613329
ENSMMUG000000051847		1.82320793	0.002099882	0.009717487
ENSMMUG00000038363	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]	1.824300613	4.16E-17	2.92E-15
ENSMMUG00000060576		1.824716244	8.86E-13	3.22E-11
ENSMMUG00000037890		1.824968985	6.93E-05	0.000531831
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	1.825987988	7.65E-11	1.94E-09
ENSMMUG00000058042	heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]	1.827718279	1.75E-10	4.22E-09
ENSMMUG00000006076	intraflagellar transport 74 [Source:VGNC Symbol;Acc:VGNC:73430]	1.828053626	0.004430541	0.018188302
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]	1.828632291	4.00E-13	1.52E-11
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]	1.828642201	4.59E-05	0.000369663
ENSMMUG00000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]	1.828780352	9.63E-13	3.48E-11
ENSMMUG00000056971	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.829575562	0.000141581	0.000975434
ENSMMUG00000002810	TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]	1.832121693	5.17E-14	2.30E-12
ENSMMUG00000061951		1.832370443	0.000768727	0.004189988
ENSMMUG00000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.832404412	6.09E-20	6.29E-18
ENSMMUG00000002382	serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]	1.834329058	4.79E-09	9.04E-08
ENSMMUG00000054846	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.834619971	0.000294389	0.001831143
ENSMMUG00000006375	coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]	1.837375194	5.75E-05	0.000452493
ENSMMUG00000008744	lysosomal protein transmembrane 5 [Source:VGNC Symbol;Acc:VGNC:74162]	1.837513715	0.007511175	0.02803518
ENSMMUG00000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	1.838522694	3.02E-12	9.77E-11
ENSMMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]	1.838750599	2.23E-11	6.07E-10
ENSMMUG00000053696	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.840888769	0.001824812	0.008616507

ENSMMUG00000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	1.842559746	3.65E-14	1.64E-12
ENSMMUG00000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]	1.8450039	4.18E-17	2.92E-15
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	1.845681678	1.00E-16	6.55E-15
ENSMMUG00000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	1.846295608	3.17E-12	1.01E-10
ENSMMUG00000002515	protein phosphatase 2 phosphatase activator [Source:VGNC Symbol;Acc:VGNC:76583]	1.849380781	2.28E-07	3.20E-06
ENSMMUG00000058108	BMP and activin membrane bound inhibitor [Source:NCBI gene;Acc:710152]	1.850336389	0.000916725	0.004877691
ENSMMUG00000058137	zinc finger protein 816 [Source:NCBI gene;Acc:720058]	1.850860858	0.000170236	0.001145257
ENSMMUG00000057231	T-box transcription factor 21 [Source:NCBI gene;Acc:694044]	1.851356086	1.28E-11	3.65E-10
ENSMMUG00000035551	small nucleolar RNA, C/D box 11B [Source:HGNC Symbol;Acc:HGNC:33571]	1.852213736	0.004101672	0.01710677
ENSMMUG00000023449	mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]	1.852350661	0.000236843	0.001517746
ENSMMUG00000055126		1.859861691	2.60E-08	4.33E-07
ENSMMUG00000000874	carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]	1.859972756	1.77E-09	3.62E-08
ENSMMUG00000063988		1.863063598	0.002310369	0.010506599
ENSMMUG00000061098		1.864332609	1.44E-25	3.15E-23
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	1.868742533	8.79E-07	1.09E-05
ENSMMUG00000056777	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.871954131	0.009894855	0.035093569
ENSMMUG00000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	1.872235059	2.63E-19	2.50E-17
ENSMMUG00000005511	SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]	1.876030068	0.00015736	0.001066535
ENSMMUG00000002836	coiled-coil domain containing 71 [Source:VGNC Symbol;Acc:VGNC:70862]	1.877579899	0.013230316	0.04434519
ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.877660274	4.55E-11	1.19E-09
ENSMMUG00000032180	RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]	1.878852133	8.04E-06	7.87E-05
ENSMMUG00000056840		1.879565032	9.59E-10	2.07E-08
ENSMMUG00000037284	small nucleolar RNA, H/ACA box 59A [Source:HGNC Symbol;Acc:HGNC:32653]	1.88212808	0.013982239	0.046309808
ENSMMUG00000010586	mesoderm posterior bHLH transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:74618]	1.885091853	0.001840169	0.008682348
ENSMMUG00000050456	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.886318531	0.007706239	0.028658814
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	1.887654418	4.64E-09	8.78E-08
ENSMMUG00000019682	mitochondrial ribosomal protein S9 [Source:VGNC Symbol;Acc:VGNC:74762]	1.888510976	0.003879132	0.016350622
ENSMMUG000000041729		1.888786519	2.00E-05	0.000177512
ENSMMUG00000009684	kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]	1.889817748	2.72E-09	5.35E-08
ENSMMUG00000056093	shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]	1.890944674	4.09E-08	6.61E-07
ENSMMUG00000051343		1.894271814	0.000516191	0.002981438
ENSMMUG00000061474		1.89806112	0.001378906	0.006811949
ENSMMUG00000053481		1.898843052	2.12E-07	2.99E-06
ENSMMUG00000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]	1.899521111	9.59E-14	3.98E-12
ENSMMUG00000013160	DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]	1.901379328	0.000235808	0.001513483
ENSMMUG00000003499	solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]	1.90143196	2.08E-07	2.95E-06
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	1.901483061	2.43E-14	1.12E-12
ENSMMUG00000017660		1.901663019	6.50E-10	1.45E-08
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]	1.906078694	3.72E-13	1.42E-11
ENSMMUG00000058254		1.906770894	2.28E-11	6.19E-10
ENSMMUG00000010886	strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]	1.911277101	0.007064461	0.02663475
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	1.912481797	2.17E-16	1.33E-14
ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	1.913480746	1.65E-13	6.61E-12
ENSMMUG00000057204	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.914151647	0.010954771	0.038013859
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	1.916694079	1.02E-07	1.52E-06
ENSMMUG00000017927	protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]	1.917138353	7.28E-05	0.000554108
ENSMMUG00000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.918120413	7.37E-14	3.15E-12
ENSMMUG00000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.918838009	5.43E-10	1.22E-08
ENSMMUG00000056992	zinc finger AN1-type containing 6 [Source:NCBI gene;Acc:717543]	1.920385093	4.65E-06	4.84E-05
ENSMMUG00000006596	CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]	1.924193787	3.67E-05	0.000303892
ENSMMUG00000057909		1.924486478	5.64E-05	0.000444451

ENSMMUG0000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	1.92611551	3.88E-09	7.46E-08
ENSMMUG00000020679	myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]	1.936181595	2.15E-11	5.86E-10
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.937774193	7.11E-19	6.03E-17
ENSMMUG00000005986	Kruppel like factor 17 [Source:NCBI gene;Acc:702810]	1.940155661	0.001929977	0.009043595
ENSMMUG00000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]	1.943050945	2.33E-07	3.26E-06
ENSMMUG00000050739		1.944832658	0.001530681	0.007439148
ENSMMUG00000054225	taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]	1.945113177	0.001739547	0.008264695
ENSMMUG00000052530		1.947190266	0.000238952	0.001528872
ENSMMUG00000063238		1.94831876	0.013759119	0.045706305
ENSMMUG00000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	1.948851793	4.54E-11	1.19E-09
ENSMMUG00000023717	MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]	1.95155169	5.83E-10	1.30E-08
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	1.95254419	1.37E-10	3.37E-09
ENSMMUG00000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]	1.953399535	1.51E-11	4.25E-10
ENSMMUG00000056511		1.953947898	0.000221887	0.00143916
ENSMMUG00000014866	hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]	1.954002117	6.01E-06	6.06E-05
ENSMMUG00000059472	filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]	1.954178246	1.37E-08	2.41E-07
ENSMMUG00000062083		1.955674582	0.000685664	0.00380302
ENSMMUG00000006130	prolyl 4-hydroxylase, transmembrane [Source:VGNC Symbol;Acc:VGNC:75693]	1.957375442	0.010157119	0.035848743
ENSMMUG00000023797	post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]	1.957731671	0.000266901	0.001675786
ENSMMUG00000007534	protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]	1.958898339	3.10E-05	0.000263035
ENSMMUG00000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	1.95958085	3.37E-09	6.54E-08
ENSMMUG00000010581	Rap guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:76493]	1.959856754	0.013034601	0.043832635
ENSMMUG00000009508	TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]	1.96289703	6.96E-05	0.000533758
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]	1.962930287	2.74E-06	3.01E-05
ENSMMUG00000004498	protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]	1.965628993	0.000140775	0.000970968
ENSMMUG00000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	1.966163498	9.47E-15	4.67E-13
ENSMMUG00000028906	Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]	1.969416714	0.001647644	0.007907533
ENSMMUG00000049894		1.970053029	0.00084564	0.004544713
ENSMMUG00000058013	melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]	1.973371441	2.92E-08	4.84E-07
ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	1.973855863	3.42E-09	6.64E-08
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	1.977898298	2.64E-12	8.68E-11
ENSMMUG00000019527	DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]	1.979736698	6.33E-06	6.36E-05
ENSMMUG00000035888	small nucleolar RNA, C/D box 121A [Source:HGNC Symbol;Acc:HGNC:33560]	1.981852302	0.002533729	0.011336755
ENSMMUG00000061031		1.982497859	7.19E-05	0.000548156
ENSMMUG00000064602		1.982624429	0.011414562	0.039232769
ENSMMUG00000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]	1.983233532	5.12E-12	1.56E-10
ENSMMUG00000023477		1.984395067	2.91E-13	1.14E-11
ENSMMUG00000020919	shroom family member 3 [Source:VGNC Symbol;Acc:VGNC:77352]	1.984703608	1.87E-06	2.14E-05
ENSMMUG00000024428	Y RNA [Source:RFAM;Acc:RF00019]	1.98503091	0.007798858	0.028950697
ENSMMUG00000064321		1.985981009	4.68E-07	6.12E-06
ENSMMUG00000051892	fms related receptor tyrosine kinase 3 ligand [Source:NCBI gene;Acc:719239]	1.986503328	6.08E-05	0.000473866
ENSMMUG00000009648	paired box 9 [Source:VGNC Symbol;Acc:VGNC:75768]	1.987973082	0.013106338	0.044018439
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]	1.988568254	9.93E-13	3.56E-11
ENSMMUG00000023622	BCR activator of RhoGEF and GTPase [Source:NCBI gene;Acc:709258]	1.997271865	1.16E-06	1.40E-05
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	2.000535372	5.79E-19	4.98E-17
ENSMMUG00000008162	fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]	2.001423016	2.01E-12	6.81E-11
ENSMMUG00000009184	myelin protein zero like 1 [Source:NCBI gene;Acc:698437]	2.005254183	1.24E-08	2.19E-07
ENSMMUG00000064892		2.006536468	1.77E-16	1.10E-14
ENSMMUG00000020185	voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]	2.00759728	0.000216879	0.001414592
ENSMMUG00000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	2.007877694	7.19E-14	3.08E-12
ENSMMUG00000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	2.009086679	3.16E-12	1.01E-10

ENSMMUG0000002124	beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]	2.009485744	3.82E-07	5.10E-06
ENSMMUG0000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]	2.010644671	1.59E-07	2.29E-06
ENSMMUG00000056330		2.011478888	0.000438516	0.002577617
ENSMMUG0000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	2.013040493	2.64E-22	4.11E-20
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	2.013749156	2.67E-06	2.94E-05
ENSMMUG00000019764	dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]	2.014625078	5.05E-10	1.14E-08
ENSMMUG00000018910	histidine rich glycoprotein [Source:VGNC Symbol;Acc:VGNC:73521]	2.01487039	6.75E-06	6.75E-05
ENSMMUG00000014699		2.016511048	6.34E-22	9.62E-20
ENSMMUG00000048190	U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]	2.019467197	4.25E-05	0.000345603
ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	2.024951073	1.96E-17	1.43E-15
ENSMMUG00000063790		2.027650124	0.006025498	0.023406888
ENSMMUG00000052179		2.028515925	0.011123159	0.038457031
ENSMMUG00000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	2.028547379	6.85E-08	1.06E-06
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	2.028708472	1.57E-16	9.90E-15
ENSMMUG00000008200	Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]	2.029434177	3.59E-06	3.84E-05
ENSMMUG00000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	2.029553752	2.44E-06	2.72E-05
ENSMMUG00000028771	Yip1 interacting factor homolog B, membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:79852]	2.029970892	1.63E-06	1.89E-05
ENSMMUG00000065277	hepatic and glial cell adhesion molecule [Source:NCBI gene;Acc:716321]	2.030238077	0.001436088	0.00705474
ENSMMUG00000056945		2.033323197	2.36E-16	1.43E-14
ENSMMUG00000014076	AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]	2.033347872	1.00E-09	2.14E-08
ENSMMUG00000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	2.035056017	1.06E-10	2.64E-09
ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	2.035321145	7.44E-14	3.16E-12
ENSMMUG00000058095	visual system homeobox 1 [Source:NCBI gene;Acc:715973]	2.036621709	0.00338594	0.014541084
ENSMMUG00000003976	glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]	2.03836465	2.04E-16	1.26E-14
ENSMMUG00000020515	adhesion G protein-coupled receptor G2 [Source:VGNC Symbol;Acc:VGNC:69802]	2.0403325	0.00022231	0.001441147
ENSMMUG00000052780		2.041063466	6.20E-12	1.86E-10
ENSMMUG00000064557		2.041541712	4.17E-19	3.71E-17
ENSMMUG00000013251	xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]	2.043598578	0.012288368	0.041722742
ENSMMUG00000062454		2.046090013	4.41E-09	8.40E-08
ENSMMUG00000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	2.046364284	1.50E-16	9.54E-15
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]	2.046733178	1.62E-05	0.000147993
ENSMMUG00000014138	forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]	2.048508529	8.96E-06	8.71E-05
ENSMMUG00000008843	lymphotoxin alpha [Source:VGNC Symbol;Acc:VGNC:74452]	2.04963848	0.000700453	0.003878046
ENSMMUG00000009887	MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]	2.050160224	3.77E-10	8.62E-09
ENSMMUG00000002377	Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]	2.050651341	0.000118154	0.000834133
ENSMMUG00000017971	nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]	2.051635329	0.001198092	0.006054996
ENSMMUG00000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	2.053607572	4.07E-12	1.26E-10
ENSMMUG00000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	2.053997195	6.90E-23	1.10E-20
ENSMMUG00000001427	myosin heavy chain 14 [Source:VGNC Symbol;Acc:VGNC:75006]	2.055577632	1.56E-08	2.72E-07
ENSMMUG00000009308	histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]	2.055759017	0.009377658	0.033574366
ENSMMUG00000026243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.057441314	0.014806351	0.04859409
ENSMMUG00000003629	phosphatidylinositol 4-kinase type 2 beta [Source:NCBI gene;Acc:693561]	2.058306	0.001507895	0.007354581
ENSMMUG00000042855	zinc finger SWIM-type containing 1 [Source:NCBI gene;Acc:717180]	2.058880468	7.37E-06	7.28E-05
ENSMMUG00000007970	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]	2.059759503	5.24E-14	2.32E-12
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]	2.061463814	1.71E-16	1.07E-14
ENSMMUG00000010173	presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]	2.062750277	1.98E-11	5.41E-10
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]	2.064464735	3.84E-18	3.00E-16
ENSMMUG00000052954	Wnt family member 6 [Source:NCBI gene;Acc:700573]	2.064780689	0.010420295	0.03656176
ENSMMUG00000008383	major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]	2.066540289	3.13E-13	1.22E-11
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]	2.066734444	4.44E-09	8.45E-08
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	2.06701564	6.88E-17	4.67E-15

ENSMMUG0000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	2.067083336	2.26E-05	0.000199028
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	2.068527863	1.67E-26	3.96E-24
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	2.068839205	6.31E-15	3.18E-13
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	2.070760413	2.04E-17	1.48E-15
ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	2.071660446	1.14E-11	3.26E-10
ENSMMUG00000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	2.073454352	1.30E-08	2.29E-07
ENSMMUG00000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	2.07535178	4.68E-19	4.14E-17
ENSMMUG00000003902	thrombospondin 3 [Source:VGNC Symbol;Acc:VGNC:78345]	2.079769206	3.05E-07	4.17E-06
ENSMMUG00000051807		2.083594921	1.17E-08	2.08E-07
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]	2.084607047	5.99E-14	2.60E-12
ENSMMUG00000061194		2.086897899	9.88E-09	1.78E-07
ENSMMUG00000039943	adenylate cyclase 9 [Source:NCBI gene;Acc:706789]	2.087409943	0.001651712	0.007917783
ENSMMUG00000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	2.088722433	5.64E-19	4.92E-17
ENSMMUG00000014707	cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]	2.090841502	0.001072753	0.005523757
ENSMMUG00000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	2.095489926	1.85E-20	2.16E-18
ENSMMUG00000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	2.095564466	3.72E-19	3.39E-17
ENSMMUG00000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	2.096709741	2.32E-10	5.51E-09
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	2.097124522	9.91E-17	6.52E-15
ENSMMUG00000062254		2.098223643	5.28E-05	0.000420234
ENSMMUG00000016096	lamin A/C [Source:VGNC Symbol;Acc:VGNC:74427]	2.098471267	0.002569932	0.011477846
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	2.098714207	9.52E-22	1.39E-19
ENSMMUG00000016827	UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]	2.099164552	0.002387123	0.010790778
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]	2.10318068	8.01E-17	5.35E-15
ENSMMUG00000017906	DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]	2.104070873	7.71E-05	0.000580448
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	2.104234051	9.10E-12	2.65E-10
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	2.105387152	1.80E-21	2.52E-19
ENSMMUG00000054960		2.107536667	1.84E-06	2.11E-05
ENSMMUG00000063383		2.110301947	0.001620807	0.007803112
ENSMMUG00000006233	adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]	2.110715944	5.34E-06	5.47E-05
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	2.112150759	2.44E-10	5.75E-09
ENSMMUG00000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	2.114543974	5.85E-17	3.99E-15
ENSMMUG00000062522		2.114938679	5.75E-11	1.48E-09
ENSMMUG00000057454	transmembrane protein 160 [Source:NCBI gene;Acc:716996]	2.115355511	1.63E-07	2.35E-06
ENSMMUG00000053423		2.116842782	0.01119925	0.038669496
ENSMMUG00000019526	BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]	2.119932363	2.34E-05	0.000204853
ENSMMUG00000059036		2.120066827	0.003024311	0.013186167
ENSMMUG00000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	2.12662855	5.05E-07	6.56E-06
ENSMMUG00000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	2.127123096	7.83E-18	5.80E-16
ENSMMUG00000032659	mml-mir-711 [Source:miRBase;Acc:MI0012553]	2.129389339	0.000812921	0.004405472
ENSMMUG00000053013		2.12958568	1.01E-08	1.81E-07
ENSMMUG00000039292		2.129619297	8.38E-12	2.46E-10
ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]	2.129961956	8.87E-06	8.64E-05
ENSMMUG00000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	2.133172676	4.75E-19	4.17E-17
ENSMMUG00000054414		2.133805528	1.20E-06	1.44E-05
ENSMMUG00000057702		2.133985498	3.43E-24	6.59E-22
ENSMMUG00000056796	NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]	2.134608518	0.001124954	0.005742028
ENSMMUG00000055589		2.134713008	0.00014775	0.001011135
ENSMMUG00000060891	histone H3.Y [Source:NCBI gene;Acc:718280]	2.136478413	0.009300697	0.03333767
ENSMMUG00000010137	microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]	2.13827601	1.02E-05	9.79E-05
ENSMMUG00000059188		2.138858592	7.66E-10	1.68E-08
ENSMMUG00000059302	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.139120343	8.60E-06	8.39E-05

ENSMMUG00000042618	involucrin [Source:NCBI gene;Acc:713728]	2.13956976	7.10E-05	0.000542887
ENSMMUG00000055973	phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]	2.142148284	0.005139289	0.020656312
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	2.143774083	1.01E-19	1.01E-17
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	2.144179623	1.78E-11	4.89E-10
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	2.144734819	7.85E-16	4.46E-14
ENSMMUG00000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	2.147125894	1.36E-17	9.98E-16
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]	2.149039729	4.89E-20	5.18E-18
ENSMMUG00000064229		2.154140651	8.87E-05	0.000653813
ENSMMUG00000061797	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.159440867	0.00063914	0.003577264
ENSMMUG00000012316	CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]	2.159865094	0.007033659	0.026526757
ENSMMUG00000016552	inverted formin, FH2 and WH2 domain containing [Source:VGNC Symbol;Acc:VGNC:84357]	2.160153101	0.005805656	0.022746994
ENSMMUG00000017450	MOB kinase activator 2 [Source:NCBI gene;Acc:720951]	2.161518241	0.000663401	0.0036912
ENSMMUG00000003199	CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]	2.162451502	0.000220784	0.001433519
ENSMMUG00000010180	PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	2.167230936	1.44E-05	0.000133305
ENSMMUG00000023598	sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]	2.168092633	0.00361115	0.015347386
ENSMMUG00000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]	2.168613272	1.44E-13	5.83E-12
ENSMMUG00000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	2.169442879	1.50E-18	1.23E-16
ENSMMUG00000009988	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	2.170494243	5.64E-25	1.17E-22
ENSMMUG00000056522		2.170624706	4.22E-05	0.000343487
ENSMMUG00000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	2.175356635	4.70E-18	3.64E-16
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	2.175586511	1.52E-11	4.26E-10
ENSMMUG00000056798		2.17703564	0.001480816	0.007239739
ENSMMUG00000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]	2.178193314	2.57E-30	9.02E-28
ENSMMUG00000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]	2.179108909	1.82E-29	6.04E-27
ENSMMUG00000059182		2.179397217	5.66E-12	1.70E-10
ENSMMUG00000056844		2.180779395	0.000350265	0.00212493
ENSMMUG00000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	2.181995914	2.79E-19	2.63E-17
ENSMMUG00000065129		2.18304275	0.006813344	0.025942632
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	2.185496926	4.29E-24	8.12E-22
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	2.186543743	1.51E-20	1.79E-18
ENSMMUG00000008853	leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:HGNC:14189]	2.187189865	0.000983515	0.005165976
ENSMMUG00000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]	2.187357775	1.43E-30	5.19E-28
ENSMMUG00000055906	angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]	2.187535516	0.001030906	0.005355397
ENSMMUG00000062863		2.188414084	3.63E-07	4.89E-06
ENSMMUG00000060761		2.191989181	1.37E-15	7.61E-14
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	2.192231336	1.77E-09	3.62E-08
ENSMMUG00000010466	solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]	2.192548801	5.96E-06	6.02E-05
ENSMMUG00000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.192821385	4.86E-17	3.36E-15
ENSMMUG00000017209	C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]	2.194300434	3.78E-05	0.000311554
ENSMMUG00000043648		2.195796695	0.000767884	0.004189108
ENSMMUG00000055897		2.196363633	3.11E-12	9.96E-11
ENSMMUG00000053790		2.197222295	6.16E-08	9.54E-07
ENSMMUG00000058592		2.197422413	1.95E-09	3.96E-08
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]	2.199253541	1.02E-11	2.95E-10
ENSMMUG00000010513	ribose-5-phosphate-3-epimerase [Source:NCBI gene;Acc:711322]	2.200482842	4.23E-07	5.58E-06
ENSMMUG00000003098	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]	2.20090309	1.52E-27	4.36E-25
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	2.200959578	2.99E-16	1.79E-14
ENSMMUG00000057179	cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]	2.201294664	0.005500944	0.021817395
ENSMMUG00000061151		2.202253976	4.81E-06	4.99E-05
ENSMMUG00000055914		2.203015159	6.27E-09	1.17E-07
ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	2.20343903	2.50E-20	2.85E-18

ENSMMUG00000064824	gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]	2.204604375	1.42E-05	0.000131247
ENSMMUG00000054686		2.206394677	5.74E-06	5.82E-05
ENSMMUG00000060632		2.207479284	3.18E-05	0.000268496
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	2.210982997	2.02E-19	1.94E-17
ENSMMUG00000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.212417986	3.96E-07	5.27E-06
ENSMMUG00000009884	hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]	2.213289464	5.90E-08	9.23E-07
ENSMMUG00000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]	2.215908862	8.72E-14	3.66E-12
ENSMMUG00000058437		2.216682889	1.36E-16	8.76E-15
ENSMMUG00000023282	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]	2.217738051	7.42E-10	1.63E-08
ENSMMUG00000050405		2.221193144	4.15E-10	9.44E-09
ENSMMUG00000061845		2.221300721	5.48E-06	5.60E-05
ENSMMUG00000051645		2.221720439	0.008208378	0.030166946
ENSMMUG00000053329		2.222295429	3.27E-08	5.34E-07
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	2.224252056	1.24E-14	5.99E-13
ENSMMUG00000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	2.224701664	1.01E-19	1.01E-17
ENSMMUG00000061923		2.225557632	8.46E-05	0.000630301
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	2.226415331	5.65E-06	5.75E-05
ENSMMUG00000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	2.226462687	7.09E-21	8.80E-19
ENSMMUG00000006836	chloride channel accessory 1 [Source:NCBI gene;Acc:574295]	2.226522627	5.74E-07	7.37E-06
ENSMMUG00000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	2.235706465	1.53E-13	6.18E-12
ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]	2.236294974	3.64E-12	1.14E-10
ENSMMUG00000054486	testis expressed 35 [Source:NCBI gene;Acc:717255]	2.237756367	0.004841412	0.019578219
ENSMMUG00000048621	enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]	2.238794049	0.0008903	0.004749424
ENSMMUG00000001748	spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]	2.245292792	1.02E-05	9.80E-05
ENSMMUG00000023345	adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]	2.245730446	1.61E-09	3.33E-08
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	2.247141998	1.08E-11	3.11E-10
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]	2.247629925	5.80E-24	1.08E-21
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	2.248010788	2.69E-30	9.17E-28
ENSMMUG00000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	2.248789773	1.22E-45	2.99E-42
ENSMMUG00000019937	maltase-glucoamylase 2 (putative) [Source:VGNC Symbol;Acc:VGNC:81720]	2.249723589	0.006871943	0.026076891
ENSMMUG00000007402	potassium two pore domain channel subfamily K member 7 [Source:VGNC Symbol;Acc:VGNC:73996]	2.250212222	6.63E-08	1.02E-06
ENSMMUG00000040741	thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]	2.259625033	2.66E-12	8.72E-11
ENSMMUG00000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]	2.262091472	2.11E-13	8.32E-12
ENSMMUG00000059589		2.266165364	5.98E-05	0.000467686
ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	2.270390568	4.04E-22	6.21E-20
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]	2.272747854	7.30E-16	4.17E-14
ENSMMUG00000008839	DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]	2.2746427	9.98E-06	9.59E-05
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	2.275656441	7.64E-18	5.69E-16
ENSMMUG00000051408	myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]	2.275922249	1.48E-20	1.77E-18
ENSMMUG00000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	2.276496528	1.57E-06	1.83E-05
ENSMMUG00000063986		2.276775392	7.18E-05	0.000548156
ENSMMUG00000004477	solute carrier family 19 member 1 [Source:VGNC Symbol;Acc:VGNC:77408]	2.278481304	7.77E-05	0.000584273
ENSMMUG00000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	2.280434074	3.47E-07	4.69E-06
ENSMMUG00000056939		2.281550645	0.004622317	0.018830924
ENSMMUG00000012065	tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]	2.282801208	9.12E-20	9.27E-18
ENSMMUG00000005482	lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]	2.284373115	3.89E-06	4.11E-05
ENSMMUG00000008160	neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]	2.286305728	1.03E-05	9.82E-05
ENSMMUG00000043134	coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]	2.291866145	2.60E-08	4.33E-07
ENSMMUG00000058557		2.291872175	3.11E-10	7.21E-09
ENSMMUG00000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	2.292565253	5.46E-15	2.82E-13

ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]	2.297961956	4.26E-12	1.31E-10
ENSMMUG00000057934		2.302048927	2.57E-06	2.84E-05
ENSMMUG00000062063	melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]	2.302526395	2.82E-20	3.15E-18
ENSMMUG00000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	2.304377039	1.43E-14	6.79E-13
ENSMMUG00000052777		2.305681064	0.000200822	0.001319625
ENSMMUG00000060404		2.305731677	0.010519989	0.036848442
ENSMMUG00000001409	coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]	2.309559445	4.72E-16	2.77E-14
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	2.311104646	1.07E-13	4.40E-12
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]	2.312529036	4.16E-21	5.55E-19
ENSMMUG00000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	2.313404926	8.75E-22	1.30E-19
ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	2.31658697	7.76E-07	9.66E-06
ENSMMUG00000054111	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.317231997	0.00441267	0.01812099
ENSMMUG00000065005	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.318792382	3.76E-09	7.25E-08
ENSMMUG00000005356	integrator complex subunit 8 [Source:VGNC Symbol;Acc:VGNC:73657]	2.318904166	0.00401946	0.016838168
ENSMMUG00000056529	synaptotagmin 3 [Source:NCBI gene;Acc:719650]	2.320147738	0.00017033	0.001145257
ENSMMUG00000004472	collagen type XVIII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81291]	2.322021846	0.012167306	0.041380289
ENSMMUG00000014237	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	2.323441433	4.84E-37	3.72E-34
ENSMMUG00000055834		2.324745285	0.000189029	0.001261323
ENSMMUG00000006853	crystallin beta B2 [Source:NCBI gene;Acc:100144420]	2.326143116	6.48E-05	0.000500011
ENSMMUG00000015468	checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]	2.326540796	0.003590464	0.015264749
ENSMMUG00000006758	cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]	2.32725261	2.94E-06	3.21E-05
ENSMMUG00000064707		2.327336365	9.02E-08	1.36E-06
ENSMMUG00000012068	signal induced proliferation associated 1 like 2 [Source:NCBI gene;Acc:100425123]	2.327892761	4.39E-06	4.60E-05
ENSMMUG00000039205		2.328284665	0.001052134	0.005435806
ENSMMUG00000003739	mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]	2.328846754	5.53E-11	1.43E-09
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	2.329230394	1.10E-07	1.64E-06
ENSMMUG00000028471	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	2.331497848	2.75E-06	3.02E-05
ENSMMUG00000058715		2.331970212	0.000854008	0.004579675
ENSMMUG00000019965	methyl-CpG binding domain protein 3 like 1 [Source:VGNC Symbol;Acc:VGNC:74513]	2.33249054	0.001026398	0.005334231
ENSMMUG00000055820		2.334578624	1.01E-05	9.69E-05
ENSMMUG00000056755		2.335332896	8.83E-05	0.000651734
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	2.335528123	1.11E-23	1.96E-21
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	2.335689232	5.26E-32	2.08E-29
ENSMMUG00000056605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.339043776	0.00279068	0.012307228
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	2.339165238	9.13E-31	3.51E-28
ENSMMUG00000039266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.344109016	7.73E-05	0.000581801
ENSMMUG00000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	2.344467601	2.12E-12	7.15E-11
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	2.348661986	2.54E-12	8.42E-11
ENSMMUG00000060795		2.348740104	7.04E-08	1.08E-06
ENSMMUG00000057818		2.349801917	0.002138923	0.009842568
ENSMMUG00000054637	tubulin polymerization promoting protein family member 3 [Source:NCBI gene;Acc:100429881]	2.353355522	0.013843985	0.045938558
ENSMMUG00000021357	zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]	2.354088728	0.002618286	0.011643039
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	2.354284495	3.11E-14	1.41E-12
ENSMMUG00000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]	2.354605619	1.03E-13	4.24E-12
ENSMMUG00000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	2.354872175	6.16E-13	2.27E-11
ENSMMUG00000004774	maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]	2.3597105	4.21E-05	0.000342413
ENSMMUG00000045513		2.362019763	2.72E-10	6.36E-09
ENSMMUG00000064915	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.362881686	0.000603598	0.003403129
ENSMMUG00000018030	endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]	2.363160369	5.62E-08	8.85E-07
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]	2.364477048	4.13E-23	6.77E-21
ENSMMUG00000057283		2.367244451	1.16E-07	1.71E-06

ENSMMUG00000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	2.367554341	4.90E-08	7.78E-07
ENSMMUG00000006090	C-C motif chemokine receptor 10 [Source:VGNC Symbol;Acc:VGNC:82119]	2.371397249	0.00787319	0.029191368
ENSMMUG00000009437	zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]	2.375223582	0.00287563	0.01262299
ENSMMUG00000005294	casein kinase 2 beta [Source:NCBI gene;Acc:715807]	2.381288361	7.26E-05	0.000553492
ENSMMUG000000059548		2.384249187	0.008018894	0.029597665
ENSMMUG00000003833	Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]	2.387876575	6.15E-07	7.85E-06
ENSMMUG000000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	2.389095361	8.62E-09	1.57E-07
ENSMMUG000000059175		2.394139784	2.29E-07	3.21E-06
ENSMMUG00000005698	alkaline ceramidase 1 [Source:VGNC Symbol;Acc:VGNC:69460]	2.394816921	0.000679978	0.00377489
ENSMMUG000000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	2.397049332	1.03E-06	1.26E-05
ENSMMUG000000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.397997627	2.33E-06	2.61E-05
ENSMMUG000000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]	2.398771501	8.96E-52	3.67E-48
ENSMMUG000000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.399663197	0.001132089	0.005766477
ENSMMUG000000052961		2.404577824	0.000423068	0.002495166
ENSMMUG000000039412	cholinergic receptor muscarinic 4 [Source:NCBI gene;Acc:574195]	2.408096404	0.004145409	0.017254055
ENSMMUG000000002563	zinc finger DHHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]	2.408395813	5.45E-05	0.000431659
ENSMMUG000000003591	pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]	2.412327349	2.14E-06	2.42E-05
ENSMMUG000000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]	2.413063652	1.23E-20	1.49E-18
ENSMMUG000000008251	cilia and flagella associated protein 126 [Source:VGNC Symbol;Acc:VGNC:71150]	2.414750846	0.002868902	0.012597953
ENSMMUG000000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	2.417629381	1.24E-35	8.45E-33
ENSMMUG000000016099	hedgehog acyltransferase [Source:NCBI gene;Acc:712333]	2.419167516	9.28E-05	0.000680896
ENSMMUG000000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	2.419730424	1.50E-12	5.19E-11
ENSMMUG000000020190	valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]	2.420462142	8.37E-10	1.82E-08
ENSMMUG000000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	2.42422562	1.57E-10	3.82E-09
ENSMMUG000000000757	ring finger protein 114 [Source:VGNC Symbol;Acc:VGNC:76725]	2.426026971	1.16E-05	0.000109699
ENSMMUG000000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	2.428685688	8.59E-22	1.29E-19
ENSMMUG000000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	2.437040533	1.03E-26	2.63E-24
ENSMMUG000000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]	2.437496413	3.23E-11	8.62E-10
ENSMMUG000000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	2.438222144	5.50E-28	1.65E-25
ENSMMUG000000008529	chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]	2.442820357	3.52E-07	4.75E-06
ENSMMUG000000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	2.44340935	2.58E-08	4.32E-07
ENSMMUG000000013176	NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]	2.444517924	4.22E-06	4.44E-05
ENSMMUG000000050495		2.449421666	0.000134757	0.000932599
ENSMMUG000000006609	MHC class I polypeptide-related sequence B [Source:NCBI gene;Acc:715141]	2.452951173	0.000256853	0.001618962
ENSMMUG000000001200		2.454066716	0.004181706	0.017375709
ENSMMUG000000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]	2.45420832	1.49E-38	1.31E-35
ENSMMUG000000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]	2.454722778	6.22E-19	5.31E-17
ENSMMUG000000058907		2.459551032	4.40E-05	0.00035657
ENSMMUG000000016929	proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]	2.460897207	1.73E-05	0.000156827
ENSMMUG000000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	2.462570565	6.78E-18	5.08E-16
ENSMMUG000000061342		2.463876458	2.62E-14	1.20E-12
ENSMMUG000000018200	RNA transcription, translation and transport factor [Source:VGNC Symbol;Acc:VGNC:77087]	2.465801608	0.009054359	0.032664258
ENSMMUG000000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	2.466577407	1.37E-21	1.94E-19
ENSMMUG000000056707		2.467032147	0.000464463	0.002718437
ENSMMUG000000032142	complement C8 gamma chain [Source:VGNC Symbol;Acc:VGNC:70481]	2.467959356	5.32E-09	1.00E-07
ENSMMUG000000015952	katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]	2.468247272	0.000128745	0.000896546
ENSMMUG000000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	2.477241913	6.69E-21	8.39E-19
ENSMMUG000000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	2.479382313	7.55E-14	3.20E-12
ENSMMUG000000055266	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]	2.483073565	0.000843323	0.004536227
ENSMMUG000000052891		2.483272314	1.24E-21	1.78E-19
ENSMMUG000000057329		2.48556303	2.38E-07	3.32E-06

ENSMMUG0000003612	SPC24 component of NDC80 kinetochore complex [Source:VGNC Symbol;Acc:VGNC:78002]	2.486689066	0.000327953	0.002010094
ENSMMUG00000022207	phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]	2.486760173	2.95E-08	4.87E-07
ENSMMUG00000000994	epidermal growth factor receptor pathway substrate 15 like 1 [Source:VGNC Symbol;Acc:VGNC:72100]	2.487441785	0.000404815	0.00240134
ENSMMUG00000055811		2.487719974	1.88E-12	6.40E-11
ENSMMUG00000040696	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.489229176	0.013076699	0.043950154
ENSMMUG00000010826	ral guanine nucleotide dissociation stimulator like 3 [Source:VGNC Symbol;Acc:VGNC:76869]	2.492379671	6.72E-10	1.49E-08
ENSMMUG00000054211		2.493448838	0.000192343	0.001279268
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	2.497791465	2.35E-13	9.22E-12
ENSMMUG00000023060	A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]	2.499609335	2.30E-05	0.00020162
ENSMMUG00000018345	phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	2.501907056	6.72E-15	3.35E-13
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	2.504452088	4.33E-32	1.77E-29
ENSMMUG00000057687		2.505563149	7.83E-21	9.62E-19
ENSMMUG00000058758		2.507002194	0.004234681	0.017548369
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	2.512173309	1.46E-09	3.04E-08
ENSMMUG00000007208	G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]	2.51427873	2.39E-07	3.32E-06
ENSMMUG00000017740	sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]	2.514294093	2.21E-05	0.000195131
ENSMMUG00000012856	nuclear FMR1 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75422]	2.515149237	0.002322506	0.010549119
ENSMMUG00000059504		2.517323699	2.55E-08	4.28E-07
ENSMMUG00000062996		2.519294545	0.000410932	0.002431761
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	2.525871389	4.62E-16	2.73E-14
ENSMMUG00000021877	protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]	2.526638617	1.02E-06	1.24E-05
ENSMMUG00000053083	C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]	2.527339982	0.000242843	0.001548123
ENSMMUG00000056940	late cornified envelope protein 1C [Source:NCBI gene;Acc:713408]	2.527734096	0.003929059	0.016527057
ENSMMUG00000052228	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.528533898	0.000574973	0.003267216
ENSMMUG00000050608		2.529193767	4.07E-19	3.65E-17
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	2.530719861	2.58E-12	8.51E-11
ENSMMUG00000049678		2.534272596	1.75E-09	3.61E-08
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	2.535314811	1.42E-33	6.99E-31
ENSMMUG00000000152	transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]	2.53885762	0.000185105	0.001237829
ENSMMUG00000059778		2.541801282	7.10E-06	7.06E-05
ENSMMUG00000010515	KAT8 regulatory NSL complex subunit 1 like [Source:VGNC Symbol;Acc:VGNC:73913]	2.542869981	1.44E-09	2.99E-08
ENSMMUG00000005150	CD163 molecule [Source:VGNC Symbol;Acc:VGNC:70752]	2.545451317	0.000182139	0.00122065
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.545635878	2.74E-17	1.95E-15
ENSMMUG00000008778	parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]	2.546711806	1.14E-10	2.81E-09
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	2.551601078	3.32E-16	1.97E-14
ENSMMUG00000054942		2.555743472	1.36E-09	2.86E-08
ENSMMUG00000041519	zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]	2.567756521	0.001728758	0.008229342
ENSMMUG00000059299	membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]	2.568315028	0.001314154	0.00654203
ENSMMUG00000043738		2.568806807	0.000734305	0.004025576
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	2.571495746	4.36E-17	3.03E-15
ENSMMUG00000008838	mitochondrial coiled-coil domain 1 [Source:VGNC Symbol;Acc:VGNC:74548]	2.573912421	0.012249453	0.041613605
ENSMMUG00000060497		2.575068932	4.88E-07	6.37E-06
ENSMMUG00000005504	nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]	2.578308586	7.55E-08	1.15E-06
ENSMMUG00000064174		2.579574202	5.43E-06	5.56E-05
ENSMMUG00000052882	RAS like family 11 member B [Source:NCBI gene;Acc:701397]	2.584901707	0.00922544	0.033184045
ENSMMUG00000005992	zinc metalloproteinase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]	2.586262262	1.23E-09	2.59E-08
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.589239561	1.13E-07	1.67E-06
ENSMMUG00000029455	olfactory receptor 4Q2 [Source:NCBI gene;Acc:114679271]	2.590273655	1.21E-15	6.82E-14
ENSMMUG00000062037	stannin [Source:NCBI gene;Acc:711909]	2.601908509	1.05E-10	2.62E-09
ENSMMUG00000058536		2.604912559	1.40E-18	1.16E-16
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	2.606378633	3.36E-43	5.16E-40

ENSMMUG00000053781	Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]	2.608612252	0.00012231	0.000860509
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	2.617440192	1.20E-07	1.77E-06
ENSMMUG00000002562	mediator complex subunit 19 [Source:VGNC Symbol;Acc:VGNC:74615]	2.623190183	0.002675567	0.011871981
ENSMMUG00000018664	collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]	2.627391739	1.24E-20	1.49E-18
ENSMMUG000000061896		2.627699466	7.77E-14	3.28E-12
ENSMMUG00000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	2.628373843	1.18E-13	4.79E-12
ENSMMUG00000003797	ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]	2.628474015	9.81E-08	1.47E-06
ENSMMUG00000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	2.630532632	1.29E-11	3.66E-10
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]	2.633901697	2.32E-12	7.73E-11
ENSMMUG000000056437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.635025511	7.94E-05	0.000595185
ENSMMUG000000006079	leucine rich repeat containing 19 [Source:VGNC Symbol;Acc:VGNC:74337]	2.639140516	7.47E-05	0.000566721
ENSMMUG00000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]	2.640975778	2.41E-15	1.30E-13
ENSMMUG000000050529	phosphodiesterase 6H [Source:NCBI gene;Acc:700447]	2.648082366	0.004280279	0.017695322
ENSMMUG00000019802	family with sequence similarity 133 member B [Source:NCBI gene;Acc:702054]	2.648845745	3.38E-05	0.000283476
ENSMMUG000000064931		2.649239676	0.008071485	0.029756034
ENSMMUG00000019690	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	2.654702701	1.09E-08	1.95E-07
ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]	2.658716657	3.47E-05	0.000290389
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]	2.659703498	7.53E-26	1.68E-23
ENSMMUG000000020156	CD1d molecule [Source:VGNC Symbol;Acc:VGNC:70757]	2.663767028	0.001459054	0.007147563
ENSMMUG00000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	2.664270656	1.59E-14	7.49E-13
ENSMMUG00000013283	cadherin related family member 2 [Source:NCBI gene;Acc:697249]	2.667851263	4.69E-08	7.48E-07
ENSMMUG000000051925		2.668022001	1.13E-14	5.50E-13
ENSMMUG000000056342	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.668327703	0.004549632	0.01859027
ENSMMUG00000009040	cornulin [Source:VGNC Symbol;Acc:VGNC:71397]	2.668708166	4.99E-05	0.000398912
ENSMMUG000000022381	prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]	2.669660637	0.001362723	0.006745559
ENSMMUG000000055441		2.672542738	1.69E-07	2.43E-06
ENSMMUG000000054199		2.673759793	0.000573007	0.003259059
ENSMMUG000000051816	keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]	2.67389069	7.77E-13	2.85E-11
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	2.676341183	1.67E-15	9.11E-14
ENSMMUG000000046169		2.676507196	2.79E-09	5.47E-08
ENSMMUG000000004749	PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]	2.679257348	0.006165278	0.023851882
ENSMMUG000000063525		2.682501095	6.02E-08	9.36E-07
ENSMMUG000000042419		2.683269953	0.003312499	0.014265567
ENSMMUG00000010626	CD1c molecule [Source:VGNC Symbol;Acc:VGNC:70756]	2.684394137	6.72E-05	0.000516824
ENSMMUG000000062326		2.685509647	6.56E-15	3.29E-13
ENSMMUG000000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]	2.68923695	1.70E-18	1.37E-16
ENSMMUG00000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]	2.694925385	0.000117325	0.000829481
ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	2.696216274	3.50E-09	6.77E-08
ENSMMUG000000022633	replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]	2.697035488	2.58E-11	6.96E-10
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	2.700128566	1.75E-13	7.00E-12
ENSMMUG000000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	2.702159184	3.59E-35	2.20E-32
ENSMMUG000000025050	Y RNA [Source:RFAM;Acc:RF00019]	2.702289773	0.00042741	0.002517153
ENSMMUG000000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	2.704108997	1.22E-16	7.94E-15
ENSMMUG000000053457	caspase 14 [Source:NCBI gene;Acc:718049]	2.704658848	7.00E-08	1.07E-06
ENSMMUG000000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	2.704994971	1.41E-15	7.79E-14
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	2.707603053	6.21E-34	3.18E-31
ENSMMUG000000060517		2.708268012	1.75E-16	1.09E-14
ENSMMUG00000016111	chromosome 1 C1orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70432]	2.708346365	0.001896993	0.008909416
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]	2.709618956	1.47E-26	3.55E-24
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.712203035	4.23E-12	1.31E-10
ENSMMUG000000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	2.712880374	1.81E-27	5.06E-25

ENSMMUG0000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	2.713317718	1.87E-05	0.000168076
ENSMMUG00000056376		2.722426572	5.72E-18	4.39E-16
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	2.723378162	2.09E-09	4.21E-08
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	2.726894103	8.00E-17	5.35E-15
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]	2.728474216	2.16E-13	8.50E-12
ENSMMUG00000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	2.734036594	2.29E-25	4.94E-23
ENSMMUG00000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]	2.735717304	3.12E-19	2.91E-17
ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]	2.736534225	5.95E-15	3.03E-13
ENSMMUG00000058935	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.737728236	0.000114508	0.00081166
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	2.745035229	2.13E-16	1.31E-14
ENSMMUG00000064341	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.745215362	0.01318095	0.044203834
ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]	2.746679063	1.59E-11	4.42E-10
ENSMMUG00000038944		2.750275537	1.11E-26	2.77E-24
ENSMMUG00000007729	ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]	2.753544565	3.68E-13	1.41E-11
ENSMMUG00000057157		2.759851239	3.87E-13	1.47E-11
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	2.76254004	3.54E-19	3.27E-17
ENSMMUG00000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	2.766966728	1.05E-24	2.12E-22
ENSMMUG00000038018	polycomb group ring finger 5 [Source:NCBI gene;Acc:697020]	2.768169458	0.011290954	0.038905835
ENSMMUG00000050844	BTB domain containing 18 [Source:NCBI gene;Acc:703264]	2.774136056	6.89E-07	8.71E-06
ENSMMUG00000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	2.775199526	9.16E-08	1.38E-06
ENSMMUG00000065295		2.77562538	5.77E-18	4.40E-16
ENSMMUG00000019032	EMAP like 2 [Source:NCBI gene;Acc:715009]	2.781008345	3.84E-15	2.03E-13
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	2.781592123	5.12E-21	6.62E-19
ENSMMUG00000060581		2.782262899	1.74E-07	2.49E-06
ENSMMUG00000061935		2.796660078	2.52E-08	4.23E-07
ENSMMUG00000000544	collagen type VI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:82084]	2.796724938	0.009454092	0.033788964
ENSMMUG00000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]	2.799480553	0.004511062	0.018453707
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	2.799739514	1.79E-23	3.10E-21
ENSMMUG00000058162		2.803459982	0.007592922	0.028290885
ENSMMUG00000011650	dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]	2.8034643	6.59E-14	2.84E-12
ENSMMUG00000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	2.808361812	3.34E-20	3.70E-18
ENSMMUG00000049508		2.808520082	3.39E-06	3.65E-05
ENSMMUG00000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	2.809446757	4.90E-21	6.41E-19
ENSMMUG00000017983	tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]	2.811251074	0.001327666	0.006603944
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	2.813261209	3.07E-35	1.99E-32
ENSMMUG00000064723	gasdermin A [Source:NCBI gene;Acc:698841]	2.814743982	0.000749145	0.00409597
ENSMMUG00000056580	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.817779154	0.014590767	0.047963392
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	2.820070853	1.70E-19	1.64E-17
ENSMMUG00000057219	tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]	2.822853884	7.62E-05	0.000575283
ENSMMUG00000055710	taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]	2.827334526	7.05E-08	1.08E-06
ENSMMUG00000011516	ADP ribosylation factor like GTPase 4C [Source:VGNC Symbol;Acc:VGNC:70018]	2.828108745	0.000111128	0.000791813
ENSMMUG00000000452	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]	2.831590379	0.00032062	0.001971355
ENSMMUG00000038989	erythropoietin receptor [Source:NCBI gene;Acc:714546]	2.83567258	3.52E-08	5.75E-07
ENSMMUG00000049130		2.838232451	3.67E-39	3.47E-36
ENSMMUG00000056741	ovostatin-like [Source:NCBI gene;Acc:722294]	2.839636876	0.003464685	0.014827451
ENSMMUG00000022785	solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]	2.840582117	3.23E-05	0.000272438
ENSMMUG00000014349	integrin subunit alpha X [Source:NCBI gene;Acc:100427850]	2.842434307	1.38E-12	4.80E-11
ENSMMUG00000051719	late cornified envelope 1C [Source:HGNC Symbol;Acc:HGNC:29464]	2.843066242	0.001532671	0.007445873
ENSMMUG00000013330	ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]	2.844593236	1.22E-15	6.82E-14
ENSMMUG00000053406		2.848337509	0.00500251	0.020159295
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	2.854881277	1.86E-20	2.16E-18

ENSMMUG00000049265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.855074934	1.44E-05	0.000133305
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	2.861985332	4.31E-06	4.52E-05
ENSMMUG00000058229	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.865044224	0.002677572	0.011876593
ENSMMUG00000014397	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	2.866761459	1.10E-09	2.33E-08
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	2.866942798	1.30E-42	1.78E-39
ENSMMUG00000028907	insulin receptor [Source:NCBI gene;Acc:706009]	2.867234782	7.62E-09	1.39E-07
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	2.873651307	1.70E-18	1.37E-16
ENSMMUG00000064730		2.874247842	2.62E-17	1.88E-15
ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]	2.881923054	1.58E-18	1.29E-16
ENSMMUG00000049542		2.882064493	1.13E-12	3.98E-11
ENSMMUG00000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]	2.883292694	1.48E-16	9.48E-15
ENSMMUG00000051537		2.888186401	8.88E-06	8.64E-05
ENSMMUG00000007726	synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]	2.891293983	4.82E-10	1.09E-08
ENSMMUG00000059442		2.893585381	0.00025684	0.001618962
ENSMMUG00000023286	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	2.898262899	5.47E-21	7.01E-19
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	2.89859297	5.66E-21	7.17E-19
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	2.899466643	3.25E-12	1.03E-10
ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]	2.905564598	2.02E-13	7.99E-12
ENSMMUG00000010824	SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]	2.907848657	5.20E-12	1.58E-10
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	2.910679738	6.45E-16	3.74E-14
ENSMMUG00000038988	RNase MRP [Source:RFAM;Acc:RF00030]	2.911824496	0.008486684	0.030998464
ENSMMUG00000064295		2.919903863	0.008115181	0.029872324
ENSMMUG00000049479		2.926656457	0.005961004	0.023237139
ENSMMUG00000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	2.928557294	3.76E-20	4.05E-18
ENSMMUG00000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	2.935983493	8.99E-19	7.52E-17
ENSMMUG00000008834	klotho beta [Source:VGNC Symbol;Acc:VGNC:73835]	2.936662145	0.001444689	0.007085663
ENSMMUG00000046918		2.938509003	3.16E-05	0.00026769
ENSMMUG00000053106		2.938769288	9.46E-11	2.37E-09
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]	2.951761062	2.74E-29	8.63E-27
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	2.960334861	4.96E-17	3.40E-15
ENSMMUG00000017124	spliceosome associated factor 3, U4/U6 recycling protein [Source:VGNC Symbol;Acc:VGNC:77029]	2.968772657	6.64E-14	2.85E-12
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	2.972619468	1.13E-14	5.50E-13
ENSMMUG00000065271		2.985890327	0.008957909	0.032381687
ENSMMUG00000054634	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]	2.987464248	0.006453692	0.024795975
ENSMMUG00000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	2.987902517	6.22E-27	1.63E-24
ENSMMUG00000063914		3.001813253	1.83E-40	2.25E-37
ENSMMUG00000015258	glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]	3.003945178	0.000329313	0.002015731
ENSMMUG00000056058	C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]	3.005460449	0.001043911	0.0054077
ENSMMUG00000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	3.010212739	1.45E-10	3.54E-09
ENSMMUG00000053460		3.010878505	2.51E-23	4.23E-21
ENSMMUG00000060435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.014900058	5.19E-06	5.34E-05
ENSMMUG00000060289		3.01559059	4.06E-40	4.33E-37
ENSMMUG00000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.019935738	3.57E-20	3.92E-18
ENSMMUG00000011441	transmembrane protein 106C [Source:VGNC Symbol;Acc:VGNC:79741]	3.026585607	0.00174684	0.008286536
ENSMMUG00000056797		3.033966402	0.013818704	0.045879442
ENSMMUG00000040071		3.043770211	8.60E-06	8.39E-05
ENSMMUG00000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]	3.047829602	5.43E-26	1.26E-23
ENSMMUG00000044048	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.047909016	1.05E-12	3.73E-11
ENSMMUG00000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	3.053921471	6.99E-23	1.10E-20
ENSMMUG00000056063		3.053971492	1.84E-05	0.000166248
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	3.053981049	9.01E-28	2.64E-25

ENSMMUG0000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	3.055123174	2.48E-21	3.35E-19
ENSMMUG000000803	signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]	3.057253106	4.06E-33	1.92E-30
ENSMMUG00000046099	chromosome 19 C19orf81 homolog [Source:NCBI gene;Acc:719661]	3.070569267	0.000507989	0.002942989
ENSMMUG00000061603		3.074685815	0.013549555	0.045156609
ENSMMUG00000010007	CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]	3.076280572	8.27E-10	1.80E-08
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	3.077579542	1.92E-08	3.28E-07
ENSMMUG00000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	3.082087262	4.71E-08	7.50E-07
ENSMMUG00000052168		3.082722297	3.40E-13	1.32E-11
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	3.08618785	8.93E-17	5.93E-15
ENSMMUG00000059782		3.087848254	5.41E-09	1.02E-07
ENSMMUG00000058817		3.09861417	1.31E-12	4.58E-11
ENSMMUG00000057063	solute carrier family 6 member 14 [Source:NCBI gene;Acc:709598]	3.101533543	0.000155619	0.001056747
ENSMMUG00000016469	proprotein convertase subtilisin/kexin type 1 inhibitor [Source:VGNC Symbol;Acc:VGNC:75639]	3.103061202	9.94E-05	0.000718908
ENSMMUG00000053220	olfactory receptor 111 [Source:NCBI gene;Acc:719077]	3.107332499	0.003378826	0.014517955
ENSMMUG00000016069	cubilin [Source:VGNC Symbol;Acc:VGNC:82132]	3.108772212	1.47E-12	5.11E-11
ENSMMUG00000016442	glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]	3.114280437	4.64E-06	4.84E-05
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	3.11512857	1.14E-08	2.03E-07
ENSMMUG00000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	3.116602066	1.14E-05	0.000107534
ENSMMUG00000010614	C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]	3.116710594	0.013695669	0.045531306
ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]	3.13019215	1.65E-11	4.59E-10
ENSMMUG00000025918	small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]	3.131808798	0.00035368	0.002142475
ENSMMUG00000047452		3.135551108	0.006884533	0.026100493
ENSMMUG00000002566	selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]	3.136135338	0.00021817	0.001420304
ENSMMUG00000063346		3.136882731	0.005828543	0.022800324
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	3.138359372	2.63E-14	1.20E-12
ENSMMUG00000005293	G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]	3.139537995	1.96E-08	3.35E-07
ENSMMUG00000017930	striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]	3.140071487	3.69E-13	1.41E-11
ENSMMUG00000007773	solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]	3.14441668	1.07E-07	1.59E-06
ENSMMUG00000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	3.151900754	6.21E-24	1.14E-21
ENSMMUG00000058534		3.152680837	1.65E-06	1.91E-05
ENSMMUG00000062794		3.153444675	4.88E-15	2.53E-13
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	3.154790166	5.15E-34	2.75E-31
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]	3.157306314	2.08E-21	2.88E-19
ENSMMUG00000056248		3.157307791	8.90E-13	3.23E-11
ENSMMUG00000045654	tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]	3.163596661	1.82E-06	2.09E-05
ENSMMUG00000061533		3.16491417	9.76E-33	4.28E-30
ENSMMUG00000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]	3.165690268	2.13E-32	9.05E-30
ENSMMUG00000016434	NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]	3.165793928	2.35E-10	5.56E-09
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	3.177278337	1.87E-05	0.000167878
ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.179750927	5.73E-14	2.51E-12
ENSMMUG00000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	3.185088688	3.49E-13	1.34E-11
ENSMMUG00000000376	bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]	3.186409957	6.87E-06	6.87E-05
ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	3.187209284	7.60E-11	1.94E-09
ENSMMUG00000016737	contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]	3.190478607	0.001563681	0.007557691
ENSMMUG00000053984		3.193005556	2.09E-07	2.96E-06
ENSMMUG00000057499		3.196909364	3.59E-10	8.23E-09
ENSMMUG00000056980		3.200500692	0.000374701	0.002245464
ENSMMUG00000002741	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]	3.200694302	0.009425697	0.033726706
ENSMMUG00000005303	apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]	3.210024444	1.67E-07	2.40E-06
ENSMMUG00000058423		3.211643322	2.69E-09	5.31E-08
ENSMMUG00000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	3.217409819	2.46E-29	7.95E-27

ENSMMUG00000052637	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.220554448	1.61E-10	3.91E-09
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	3.224992214	6.87E-12	2.05E-10
ENSMMUG00000017822	periplakin [Source:VGNC Symbol;Acc:VGNC:76240]	3.227179841	8.89E-08	1.34E-06
ENSMMUG00000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	3.227966836	5.61E-15	2.87E-13
ENSMMUG00000028785	zinc finger protein 146 [Source:VGNC Symbol;Acc:VGNC:78846]	3.23222091	0.000445182	0.002614301
ENSMMUG00000009361	fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]	3.257239007	4.52E-20	4.83E-18
ENSMMUG00000054816	interleukin 1 receptor associated kinase 3 [Source:NCBI gene;Acc:717845]	3.258880068	0.006870949	0.026076891
ENSMMUG00000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	3.260793556	1.72E-24	3.42E-22
ENSMMUG00000013713	beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]	3.279152379	5.83E-18	4.42E-16
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	3.284207113	4.03E-18	3.14E-16
ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	3.284487831	1.70E-43	3.48E-40
ENSMMUG00000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	3.286448126	6.52E-26	1.48E-23
ENSMMUG00000011344	solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]	3.28888737	0.0057665	0.022629645
ENSMMUG00000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	3.295253939	1.76E-34	9.81E-32
ENSMMUG00000060767		3.295314396	7.97E-11	2.01E-09
ENSMMUG00000035160	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	3.313820901	0.006270589	0.024221184
ENSMMUG00000014875	C2CD2 like [Source:VGNC Symbol;Acc:VGNC:70435]	3.315259379	5.53E-06	5.65E-05
ENSMMUG00000056749	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.330957828	0.000217063	0.001414592
ENSMMUG00000050832		3.341725635	0.000851273	0.004569193
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	3.343149662	5.05E-54	3.10E-50
ENSMMUG00000054159	lymphocyte antigen 6 family member G5C [Source:VGNC Symbol;Acc:VGNC:83431]	3.350961471	9.66E-05	0.000703172
ENSMMUG00000057539		3.351984091	1.23E-09	2.59E-08
ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	3.367455876	1.70E-11	4.68E-10
ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	3.370674965	1.19E-12	4.16E-11
ENSMMUG00000018298	killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]	3.379570515	0.000154392	0.001050156
ENSMMUG00000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	3.384503969	4.70E-21	6.21E-19
ENSMMUG00000051972	zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]	3.393016671	1.07E-05	0.000101644
ENSMMUG00000063779		3.396225453	1.88E-14	8.77E-13
ENSMMUG00000027220	microRNA 598 [Source:HGNC Symbol;Acc:HGNC:32854]	3.401505245	0.014720899	0.048339451
ENSMMUG00000039346	apolipoprotein B mRNA editing enzyme catalytic subunit 3G [Source:NCBI gene;Acc:574398]	3.405479299	0.012445198	0.042115618
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]	3.409214385	3.93E-19	3.56E-17
ENSMMUG00000053722		3.411132668	2.07E-06	2.35E-05
ENSMMUG00000043396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.413864587	0.001498189	0.007315949
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]	3.430094161	1.35E-13	5.48E-12
ENSMMUG00000004283	calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]	3.431294128	2.97E-10	6.91E-09
ENSMMUG00000016404	chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]	3.436909428	3.90E-05	0.000319918
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	3.465277587	1.12E-23	1.96E-21
ENSMMUG00000057570		3.468932576	1.35E-26	3.31E-24
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	3.471528184	3.41E-12	1.08E-10
ENSMMUG00000064638	Y RNA [Source:RFAM;Acc:RF00019]	3.472509737	0.010754988	0.037458079
ENSMMUG00000010142	glutamate ionotropic receptor NMDA type subunit 2A [Source:VGNC Symbol;Acc:VGNC:73282]	3.47368265	0.006400788	0.024635016
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	3.47408376	3.96E-92	4.87E-88
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	3.480512882	2.09E-09	4.21E-08
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	3.481308287	2.54E-08	4.27E-07
ENSMMUG00000056855	potassium inwardly rectifying channel subfamily J member 15 [Source:NCBI gene;Acc:693427]	3.485942656	0.002469799	0.011091084
ENSMMUG00000008288	sorting nexin 17 [Source:VGNC Symbol;Acc:VGNC:77709]	3.486803876	0.000208369	0.001363715
ENSMMUG00000053691	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.49175007	3.08E-05	0.000261659
ENSMMUG00000016237	taxilin gamma [Source:NCBI gene;Acc:713769]	3.502356699	5.24E-05	0.000416831
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	3.511104275	3.11E-43	5.16E-40
ENSMMUG00000049267		3.519290487	1.80E-08	3.10E-07
ENSMMUG00000012147	collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]	3.522731639	4.52E-46	1.39E-42

ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.523915758	5.09E-23	8.23E-21
ENSMMUG00000060270		3.534116272	0.000656763	0.003662555
ENSMMUG00000015555	ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]	3.534597242	2.07E-23	3.53E-21
ENSMMUG00000031391	RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]	3.548873695	1.22E-14	5.91E-13
ENSMMUG00000005737	SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]	3.5569546	5.20E-05	0.000413862
ENSMMUG00000003269	polyhomeotic homolog 2 [Source:VGNC Symbol;Acc:VGNC:75903]	3.557257786	0.002378007	0.010757486
ENSMMUG00000056339		3.557590237	0.003453042	0.014787922
ENSMMUG00000029186	exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]	3.559578146	0.013402164	0.04478684
ENSMMUG00000039560	cofilin 2 [Source:NCBI gene;Acc:693875]	3.574143618	0.014364437	0.047406657
ENSMMUG00000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	3.584934274	2.09E-12	7.06E-11
ENSMMUG00000058916		3.584974945	2.99E-24	5.83E-22
ENSMMUG00000004932	msh homeobox 2 [Source:VGNC Symbol;Acc:VGNC:84448]	3.598289301	0.009874504	0.035046931
ENSMMUG00000004982	activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]	3.611274001	0.011200342	0.038669496
ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	3.621942858	2.95E-12	9.56E-11
ENSMMUG00000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	3.622055197	8.19E-24	1.48E-21
ENSMMUG00000052195		3.62520323	6.23E-05	0.000483987
ENSMMUG00000056109	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.63565805	0.00116889	0.005931804
ENSMMUG00000050543		3.639569332	5.48E-27	1.46E-24
ENSMMUG00000050335		3.644272273	0.00882088	0.031981545
ENSMMUG00000058700	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.669909193	0.000818925	0.004434102
ENSMMUG00000003400	baculoviral IAP repeat containing 2 [Source:NCBI gene;Acc:702592]	3.680791625	1.53E-16	9.67E-15
ENSMMUG00000004576	C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]	3.681020776	2.98E-15	1.60E-13
ENSMMUG00000060750	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.686404127	0.000366675	0.002204891
ENSMMUG00000010837	VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]	3.690342495	2.62E-09	5.20E-08
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	3.698078937	7.59E-33	3.45E-30
ENSMMUG00000060808		3.711751947	8.11E-06	7.94E-05
ENSMMUG00000054736		3.721489338	0.000342599	0.002083564
ENSMMUG00000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	3.726668108	4.22E-40	4.33E-37
ENSMMUG00000011682	ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]	3.74371458	0.000918518	0.004883005
ENSMMUG00000059321		3.758312132	0.000544999	0.003127257
ENSMMUG00000022282	collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]	3.759858607	0.000164411	0.001110319
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	3.768711401	4.48E-09	8.51E-08
ENSMMUG00000004330	peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]	3.775838929	1.07E-05	0.000102111
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	3.797773965	9.60E-31	3.57E-28
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	3.815227025	8.99E-25	1.84E-22
ENSMMUG00000056593		3.818289088	6.31E-05	0.000487893
ENSMMUG00000007068	tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]	3.818779912	0.000338176	0.002060745
ENSMMUG00000051989	interleukin 5 [Source:NCBI gene;Acc:710622]	3.833317241	0.000390029	0.002325983
ENSMMUG00000054621		3.836846466	7.19E-05	0.000548156
ENSMMUG00000047247	matrix Gla protein [Source:NCBI gene;Acc:574116]	3.841973918	0.00136367	0.006747529
ENSMMUG00000008784	lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]	3.848465894	0.001034322	0.005368604
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]	3.85966366	5.51E-05	0.000436028
ENSMMUG00000062091		3.861720859	1.58E-06	1.84E-05
ENSMMUG00000056184		3.866244283	1.78E-09	3.63E-08
ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	3.878076978	2.80E-20	3.15E-18
ENSMMUG00000002974	acid phosphatase 5, tartrate resistant [Source:VGNC Symbol;Acc:VGNC:69384]	3.88365206	0.000165614	0.001117825
ENSMMUG00000023403	GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]	3.888054786	1.85E-07	2.63E-06
ENSMMUG00000057632		3.891032914	1.56E-19	1.53E-17
ENSMMUG00000018549	zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]	3.921812253	8.07E-12	2.38E-10
ENSMMUG00000059087		3.924184	0.000114011	0.000809068
ENSMMUG00000000108	NCK associated protein 1 like [Source:VGNC Symbol;Acc:VGNC:75063]	3.943935727	0.015232393	0.049732207

ENSMMUG00000061940		3.94976808	0.014293021	0.047224604
ENSMMUG00000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	3.962250793	3.29E-23	5.47E-21
ENSMMUG00000006655	myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]	3.987251892	3.32E-06	3.58E-05
ENSMMUG00000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	3.991791401	5.07E-07	6.58E-06
ENSMMUG00000005552	PAF1 homolog, Paf1/RNA polymerase II complex component [Source:VGNC Symbol;Acc:VGNC:81492]	4.011840267	3.04E-05	0.000258511
ENSMMUG00000021476	BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]	4.040476423	2.77E-10	6.46E-09
ENSMMUG00000005920	N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]	4.049487564	0.000201377	0.00132218
ENSMMUG00000021477	ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]	4.052512254	3.02E-06	3.28E-05
ENSMMUG00000015693	lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]	4.058470798	1.08E-11	3.12E-10
ENSMMUG00000003007	caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]	4.094367217	4.88E-08	7.76E-07
ENSMMUG00000049755	leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]	4.094696306	4.18E-07	5.53E-06
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	4.094872093	2.03E-08	3.47E-07
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	4.122233845	8.17E-36	5.90E-33
ENSMMUG00000009388	F-box and leucine rich repeat protein 5 [Source:VGNC Symbol;Acc:VGNC:81408]	4.12958075	0.008758798	0.03179397
ENSMMUG00000004798	S100 calcium binding protein G [Source:VGNC Symbol;Acc:VGNC:77016]	4.12958075	0.008758798	0.03179397
ENSMMUG00000015019	VPS37C subunit of ESCRT-I [Source:VGNC Symbol;Acc:VGNC:79578]	4.196886813	0.008716929	0.031687337
ENSMMUG00000060865	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.22817759	0.003348576	0.014405794
ENSMMUG00000058499		4.245781597	0.008130026	0.029918009
ENSMMUG00000007688	angiominin [Source:VGNC Symbol;Acc:VGNC:69627]	4.245852572	0.00802919	0.02962677
ENSMMUG00000018743	ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]	4.25972387	2.54E-05	0.000220111
ENSMMUG00000008698	cyclin dependent kinase 6 [Source:VGNC Symbol;Acc:VGNC:70983]	4.267265492	0.009764425	0.034726431
ENSMMUG00000011161	syntaxin binding protein 5 like [Source:VGNC Symbol;Acc:VGNC:78256]	4.286195471	0.00872831	0.031711397
ENSMMUG00000058370	taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]	4.297371048	0.000128178	0.000894626
ENSMMUG00000064860	phosphoglycerate mutase 2 [Source:NCBI gene;Acc:720615]	4.30024484	0.002196086	0.010049177
ENSMMUG00000059700		4.335233978	8.34E-06	8.15E-05
ENSMMUG00000019306	indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]	4.344891642	1.07E-06	1.30E-05
ENSMMUG00000063913	endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]	4.346899758	3.11E-07	4.24E-06
ENSMMUG00000052453	serpin family A member 11 [Source:NCBI gene;Acc:701483]	4.369598083	2.41E-09	4.81E-08
ENSMMUG00000005415	olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]	4.371787446	6.29E-05	0.000487391
ENSMMUG00000050597		4.381190642	0.006883258	0.026100493
ENSMMUG00000065134	Fas ligand [Source:NCBI gene;Acc:574159]	4.399016031	0.011436105	0.039262895
ENSMMUG00000057076	claudin 19 [Source:NCBI gene;Acc:697807]	4.403527473	0.006267757	0.024217857
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	4.408173982	3.78E-35	2.21E-32
ENSMMUG00000052569		4.415001623	2.59E-12	8.52E-11
ENSMMUG00000048215		4.416141881	3.74E-20	4.05E-18
ENSMMUG00000019443	syntaxin 11 [Source:VGNC Symbol;Acc:VGNC:78041]	4.42548363	0.008340483	0.03057348
ENSMMUG00000016513	FA complementation group M [Source:VGNC Symbol;Acc:VGNC:72554]	4.439628525	0.003234531	0.013978666
ENSMMUG00000024537		4.458831488	5.79E-08	9.09E-07
ENSMMUG00000006787	BCL2 like 15 [Source:VGNC Symbol;Acc:VGNC:70162]	4.465380358	0.000407868	0.002414789
ENSMMUG00000002421	DNA polymerase mu [Source:VGNC Symbol;Acc:VGNC:81742]	4.471135482	0.001044054	0.0054077
ENSMMUG00000063198		4.483517979	1.10E-07	1.63E-06
ENSMMUG00000020854	C-type lectin domain family 4 member F [Source:VGNC Symbol;Acc:VGNC:71349]	4.489555123	0.005581257	0.022071822
ENSMMUG00000039268	lymphocyte antigen 6G6e-like [Source:NCBI gene;Acc:100427419]	4.506361075	0.00255214	0.011410824
ENSMMUG00000021447	TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]	4.526284254	4.52E-05	0.000364625
ENSMMUG00000025039	Small nucleolar RNA SNORA73 family [Source:RFAM;Acc:RF00045]	4.538826859	0.002445484	0.011006022
ENSMMUG00000016621	transmembrane BAX inhibitor motif containing 4 [Source:NCBI gene;Acc:717825]	4.541055048	0.010710879	0.037336193
ENSMMUG00000062296	potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]	4.604148672	0.000200839	0.001319625
ENSMMUG00000020586	serpin family A member 12 [Source:VGNC Symbol;Acc:VGNC:77266]	4.616635969	0.013940508	0.046196489
ENSMMUG00000004868	dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]	4.645284479	0.001525192	0.0074154
ENSMMUG000000031100	membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]	4.646392239	9.79E-11	2.44E-09
ENSMMUG00000032284	leucine rich repeat containing 47 [Source:VGNC Symbol;Acc:VGNC:74388]	4.648447958	0.013579375	0.045219207

ENSMMUG0000004470	CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]	4.712620174	0.000178517	0.001197683
ENSMMUG00000031684	KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]	4.721513322	2.45E-06	2.73E-05
ENSMMUG00000001338	antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]	4.7630006	2.44E-08	4.11E-07
ENSMMUG00000056778		4.765548438	0.006866416	0.026075194
ENSMMUG00000026474	Small nucleolar RNA SNORD83 [Source:RFAM;Acc:RF00137]	4.823300763	0.006088805	0.023608043
ENSMMUG00000050799		4.832992564	0.00083671	0.004508619
ENSMMUG00000063820	olfactory receptor, family 52, subfamily M, member 1 [Source:NCBI gene;Acc:717723]	4.878621775	3.16E-05	0.000267488
ENSMMUG00000060184	SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]	4.886195053	1.12E-07	1.66E-06
ENSMMUG00000003005	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]	4.928223499	0.002347475	0.010650726
ENSMMUG00000057447		4.963678446	0.002400448	0.010843036
ENSMMUG00000053561		4.973181852	0.006322044	0.024381625
ENSMMUG00000052785	extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]	5.073295448	1.55E-05	0.000142202
ENSMMUG00000064014		5.101448694	0.005243747	0.02098694
ENSMMUG00000010213	GLI pathogenesis related 2 [Source:VGNC Symbol;Acc:VGNC:81414]	5.101651147	0.000525773	0.003028246
ENSMMUG00000011564	transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]	5.12281394	0.000491295	0.002859139
ENSMMUG00000054881		5.167405196	0.003705384	0.015704439
ENSMMUG00000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	5.174567839	5.57E-25	1.17E-22
ENSMMUG00000056905		5.241329831	0.000727977	0.004000647
ENSMMUG00000050436		5.249806104	0.003019972	0.013171923
ENSMMUG00000064095		5.27453815	6.57E-09	1.22E-07
ENSMMUG00000001820	regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]	5.317646618	0.000109296	0.000780118
ENSMMUG00000040007	peroxisomal biogenesis factor 1 [Source:VGNC Symbol;Acc:VGNC:81736]	5.331490299	0.001964491	0.009166881
ENSMMUG00000025150	Y RNA [Source:RFAM;Acc:RF00019]	5.346605085	0.000815271	0.004416261
ENSMMUG00000056168		5.365159662	0.000737906	0.004043517
ENSMMUG00000026975	mml-mir-206 [Source:miRBase;Acc:MI0007667]	5.397403487	0.000218504	0.00142172
ENSMMUG00000051037		5.4214574	1.05E-12	3.73E-11
ENSMMUG00000061282	hyaluronan and proteoglycan link protein 1 [Source:NCBI gene;Acc:712501]	5.490808837	0.000930948	0.004934144
ENSMMUG00000059335		5.510225363	0.000312028	0.001928175
ENSMMUG00000001989	RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]	5.618920233	0.000114502	0.00081166
ENSMMUG00000062496		5.626692051	0.000230557	0.001486765
ENSMMUG00000014032	proline rich 36 [Source:NCBI gene;Acc:710443]	5.655069588	1.69E-08	2.93E-07
ENSMMUG00000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.684465632	5.95E-05	0.000466134
ENSMMUG00000013648	potassium two pore domain channel subfamily K member 16 [Source:VGNC Symbol;Acc:VGNC:73827]	5.718270055	8.58E-05	0.000637556
ENSMMUG00000048395	chromobox 6 [Source:NCBI gene;Acc:702133]	5.754493454	2.39E-13	9.35E-12
ENSMMUG00000019369	pleckstrin homology and RhoGEF domain containing G2 [Source:VGNC Symbol;Acc:VGNC:76133]	5.765237214	9.75E-07	1.19E-05
ENSMMUG00000031540	purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]	5.776070762	0.000252625	0.001597639
ENSMMUG00000027543	Y RNA [Source:RFAM;Acc:RF00019]	5.805055859	0.000301512	0.001870479
ENSMMUG00000052422	ATPase H+ transporting V1 subunit G2 [Source:NCBI gene;Acc:715331]	5.889479609	8.38E-05	0.000625223
ENSMMUG00000049232	AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]	5.932352774	6.07E-05	0.000473214
ENSMMUG00000005554	mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]	6.081702171	7.91E-38	6.48E-35
ENSMMUG00000038702	ZFP36 ring finger protein [Source:NCBI gene;Acc:722000]	6.195896628	4.39E-06	4.60E-05
ENSMMUG00000004309	APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]	6.405232757	1.56E-05	0.000143525
ENSMMUG00000049298	cholecystokinin A receptor [Source:NCBI gene;Acc:694742]	7.281479178	0.002574079	0.011492194
ENSMMUG00000057785		8.314606527	7.05E-12	2.10E-10

SD 2 vs. Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000060579		5.674404185	3.09E-06	4.81E-05
ENSMMUG0000006827	von Willebrand factor A domain containing 7 [Source:VGNC Symbol;Acc:VGNC:78941]	5.437113544	8.14E-05	0.000828725
ENSMMUG00000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	5.337108131	4.82E-07	9.50E-06
ENSMMUG00000014299	chromosome 12 C2orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70459]	-4.96735109	0.000399906	0.003132288
ENSMMUG00000001245	zinc finger protein 532 [Source:NCBI gene;Acc:701146]	4.918118025	9.28E-05	0.000924088
ENSMMUG00000022484	ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]	4.880090931	0.00036248	0.002903722
ENSMMUG00000059241		4.869811455	5.61E-07	1.08E-05
ENSMMUG00000018739	sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]	4.851556768	0.000211162	0.001852653
ENSMMUG00000056056		-4.82005807	0.000227098	0.001973731
ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	4.764414922	3.04E-08	7.93E-07
ENSMMUG00000017206	SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]	4.755209009	4.41E-05	0.00048287
ENSMMUG00000001402	solute carrier family 15 member 1 [Source:VGNC Symbol;Acc:VGNC:77393]	4.604631391	0.00112343	0.007343438
ENSMMUG00000013799	ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]	4.579604276	1.06E-05	0.000142802
ENSMMUG00000063345		-4.53616564	3.77E-07	7.73E-06
ENSMMUG00000024125	small nucleolar RNA, H/ACA box 58 [Source:HGNC Symbol;Acc:HGNC:32652]	4.513245467	0.001447432	0.009018965
ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]	4.466241841	8.70E-09	2.57E-07
ENSMMUG00000051155	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	4.398906887	0.000665181	0.00480891
ENSMMUG00000059922	family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]	4.384538366	1.87E-05	0.000231201
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	4.373640655	8.02E-05	0.000818107
ENSMMUG00000022865	junctophilin 2 [Source:NCBI gene;Acc:694158]	4.317800343	0.000791931	0.005552787
ENSMMUG00000025616		4.309263134	0.002857485	0.015470722
ENSMMUG00000007187	haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]	4.279908158	0.000810675	0.005667629
ENSMMUG00000049682	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.277803114	8.47E-05	0.000860814
ENSMMUG00000003693	DIS3 like exosome 3'-5' exoribonuclease [Source:VGNC Symbol;Acc:VGNC:71796]	4.203780244	0.007091039	0.031728496
ENSMMUG00000054953	leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]	4.157742249	0.000954065	0.006444377
ENSMMUG00000057031		4.146966261	0.000431354	0.003332839
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]	4.138389818	9.83E-05	0.000970157
ENSMMUG00000056369	SAP30 like [Source:NCBI gene;Acc:714400]	4.128301871	0.005798359	0.027074861

ENSMMUG00000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.118710722	0.000212194	0.001858986
ENSMMUG00000021656	golgin subfamily A member 8S [Source:NCBI gene;Acc:722977]	4.096091542	0.009229162	0.039292016
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	4.086752301	3.10E-16	2.99E-14
ENSMMUG00000013345	folliculin [Source:NCBI gene;Acc:698082]	4.083127851	0.00028165	0.002350554
ENSMMUG00000061774	taste 2 receptor member 10 [Source:NCBI gene;Acc:717960]	-4.08058083	0.010793829	0.044605555
ENSMMUG00000012151	glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]	4.065351019	4.27E-05	0.000470111
ENSMMUG00000045974	suppressor APC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:83461]	-4.05859518	0.008826993	0.037930416
ENSMMUG00000026432	small nucleolar RNA, C/D box 7 [Source:HGNC Symbol;Acc:HGNC:32704]	4.056645607	0.008406248	0.036449393
ENSMMUG00000010508	carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]	4.041557722	0.000214088	0.001872841
ENSMMUG00000015702	divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]	4.021944796	0.000950075	0.006431939
ENSMMUG00000052929		3.967789653	0.001122817	0.007343438
ENSMMUG00000049842		3.963129668	0.00210987	0.012189005
ENSMMUG00000016331	glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]	-3.95640299	0.00359197	0.018752151
ENSMMUG00000012690	myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]	3.919558011	0.001677983	0.010164654
ENSMMUG00000049117	CLLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]	3.810593684	0.010516945	0.043702615
ENSMMUG00000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	3.801788918	1.57E-12	9.01E-11
ENSMMUG00000052668		3.795488162	0.00419285	0.021115883
ENSMMUG00000013777	DDHD domain containing 2 [Source:VGNC Symbol;Acc:VGNC:83992]	3.793697304	0.00243217	0.013636551
ENSMMUG00000055809		3.770188956	7.54E-07	1.37E-05
ENSMMUG00000060993	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.736104881	0.005008131	0.024106665
ENSMMUG00000021331	EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]	3.734613042	6.79E-05	0.000706825
ENSMMUG00000018827	multiple EGF like domains 10 [Source:VGNC Symbol;Acc:VGNC:74617]	3.690838113	0.011271227	0.045944253
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	3.681722141	1.71E-17	2.11E-15
ENSMMUG00000005200	PC-esterase domain containing 1A [Source:VGNC Symbol;Acc:VGNC:75622]	3.668952314	0.008437091	0.036537227
ENSMMUG00000022330	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 [Source:NCBI gene;Acc:100428398]	-3.65621431	0.002519211	0.014000033
ENSMMUG00000007001	protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]	3.627203551	0.002844097	0.015417834
ENSMMUG00000059824		3.615472249	0.011044328	0.045302967
ENSMMUG00000044537	DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]	3.612697313	0.000269952	0.00227672
ENSMMUG00000011380	consortin, connexin sorting protein [Source:VGNC Symbol;Acc:VGNC:71355]	3.588703235	0.009537912	0.040342464
ENSMMUG00000060830		3.588208338	0.007480384	0.033142836

ENSMMUG00000051271		-	3.569856646	2.42E-16	2.44E-14
ENSMMUG0000004566	zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]	-	3.553708971	0.004301507	0.021536308
ENSMMUG0000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	-	3.553361886	0.000104514	0.001016783
ENSMMUG00000037485		-	3.553249633	0.000846028	0.005856668
ENSMMUG0000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	-	-3.55285575	2.64E-05	0.000312166
ENSMMUG00000057859		-	3.537115955	1.61E-05	0.000204401
ENSMMUG00000022676	ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]	-	3.535253458	0.005716026	0.026761193
ENSMMUG0000006309	unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]	-	3.512325353	0.000168154	0.001533538
ENSMMUG00000051162		-	3.510430346	0.003641848	0.018962944
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	-	3.498458981	0.003045835	0.01626981
ENSMMUG00000054315		-	3.474987724	0.0001078	0.00104705
ENSMMUG00000038587	prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]	-	3.469495766	0.004417558	0.02196126
ENSMMUG00000008942	carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]	-	3.460131397	4.46E-05	0.000487974
ENSMMUG00000017374	G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]	-	3.439752285	0.001119307	0.007337065
ENSMMUG00000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	-	3.436257234	3.62E-05	0.000409665
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	-	3.429441578	6.57E-06	9.28E-05
ENSMMUG00000065131		-	3.425422082	0.012028486	0.048348505
ENSMMUG00000020905	chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]	-	3.413670205	0.002766486	0.015114705
ENSMMUG00000021244	kelch like family member 40 [Source:VGNC Symbol;Acc:VGNC:74165]	-	-3.40210378	0.001258299	0.008049889
ENSMMUG00000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	-	3.343712856	1.17E-05	0.000155129
ENSMMUG00000054821		-	3.306856244	0.002642472	0.014556689
ENSMMUG00000043682	mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]	-	3.268767464	0.00058398	0.004322462
ENSMMUG00000055117		-	3.256504702	8.28E-05	0.000842758
ENSMMUG00000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	-	3.231096588	8.52E-08	2.04E-06
ENSMMUG00000053657		-	3.228826951	0.001452629	0.009042732
ENSMMUG00000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	-	3.209143737	0.000114487	0.001102165
ENSMMUG00000061408		-	3.207208114	0.000123167	0.001174401
ENSMMUG00000060836		-	3.149723017	0.002594642	0.014352625
ENSMMUG00000052535		-	3.146643776	0.000242331	0.002080403

ENSMMUG00000053577		-	3.142756066	2.41E-08	6.47E-07
ENSMMUG00000050435		-	3.135774479	0.006167618	0.02838716
ENSMMUG00000055207		-	3.135567337	0.000611064	0.004481194
ENSMMUG00000058459		-	3.125899766	0.004507343	0.022314983
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	-	3.118357697	1.20E-08	3.44E-07
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]	-	-3.1060271	2.55E-09	8.35E-08
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	-	3.098335179	0.002438397	0.01364591
ENSMMUG00000021242	natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]	-	-3.09511207	0.001946043	0.01145249
ENSMMUG00000015355	R-spondin 3 [Source:VGNC Symbol;Acc:VGNC:77066]	-	3.085018597	0.001355183	0.008537796
ENSMMUG00000020926	syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]	-	3.082802832	0.001209052	0.007788921
ENSMMUG00000065099		-	3.080249514	4.64E-12	2.42E-10
ENSMMUG00000010596	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 [Source:VGNC Symbol;Acc:VGNC:75959]	-	3.074666781	0.009687836	0.0409247
ENSMMUG00000008525	minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]	-	3.073373833	0.000734486	0.005214113
ENSMMUG00000043727	zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]	-	3.060641919	0.000300034	0.002469559
ENSMMUG00000031736		-	3.057851596	0.002740802	0.014994902
ENSMMUG00000002649	unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]	-	3.053583175	0.005065246	0.024332685
ENSMMUG00000056824		-	3.051140849	0.001481358	0.009206408
ENSMMUG00000016871	alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]	-	3.049971904	0.00040146	0.003142409
ENSMMUG00000057651	frizzled class receptor 5 [Source:NCBI gene;Acc:710796]	-	3.035536122	0.002200753	0.012562547
ENSMMUG00000010127	chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]	-	3.029442374	4.73E-06	6.95E-05
ENSMMUG00000053550		-	3.024982454	0.011138371	0.04554221
ENSMMUG00000039300		-	3.007480285	0.000136635	0.001285421
ENSMMUG00000031000	Rho GTPase activating protein 8 [Source:NCBI gene;Acc:716745]	-	3.002176984	0.002991471	0.016015132
ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]	-	2.979887014	1.84E-05	0.000228132
ENSMMUG00000062793		-	2.960645931	2.83E-07	6.03E-06
ENSMMUG00000002755	kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]	-	2.950254358	0.001858793	0.011031172
ENSMMUG00000050564		-	2.947757358	0.008398651	0.036429642
ENSMMUG00000011401	amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]	-	2.942271067	7.16E-06	9.99E-05
ENSMMUG00000019831	neurobeachin [Source:NCBI gene;Acc:714386]	-	2.937914663	2.36E-07	5.10E-06

ENSMMUG0000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	2.930588856	2.34E-12	1.30E-10
ENSMMUG00000021354	corticotropin releasing hormone binding protein [Source:VGNC Symbol;Acc:VGNC:71491]	2.914671278	0.004817446	0.023405167
ENSMMUG0000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	2.908393336	0.002829462	0.015360672
ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]	2.887334858	1.52E-07	3.45E-06
ENSMMUG00000058233	C-C motif chemokine 3-like [Source:NCBI gene;Acc:100426537]	-2.88725572	0.004684636	0.022870599
ENSMMUG00000051115		2.870080272	8.50E-05	0.000863008
ENSMMUG00000055229		2.865320327	2.41E-10	9.63E-09
ENSMMUG00000015041	CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]	2.864824078	0.000255985	0.002172699
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	2.831989109	1.19E-18	1.71E-16
ENSMMUG00000000972	tyrosine kinase non receptor 2 [Source:VGNC Symbol;Acc:VGNC:79192]	2.827893791	5.02E-06	7.31E-05
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]	2.821993873	8.55E-15	6.74E-13
ENSMMUG00000007751	solute carrier family 22 member 18 [Source:NCBI gene;Acc:721230]	-2.82196105	0.001095638	0.00720954
ENSMMUG000000061973		2.818419665	6.87E-23	1.68E-20
ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	2.813082789	4.89E-06	7.15E-05
ENSMMUG00000040817	interferon regulatory factor 9 [Source:VGNC Symbol;Acc:VGNC:84361]	2.811469451	0.007917356	0.034744688
ENSMMUG00000006457	Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]	2.799674346	0.00046793	0.003571654
ENSMMUG000000051001		2.785304263	0.008187688	0.035721584
ENSMMUG00000021095	desmoglein 2 [Source:VGNC Symbol;Acc:VGNC:72002]	2.785260516	0.009215649	0.039248438
ENSMMUG00000017932	acyl-CoA synthetase short chain family member 2 [Source:VGNC Symbol;Acc:VGNC:69410]	2.784161798	0.009063588	0.03872477
ENSMMUG00000013742	regulator of G protein signaling 22 [Source:VGNC Symbol;Acc:VGNC:82221]	2.782658515	0.008463522	0.036604963
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	2.778206064	5.41E-13	3.30E-11
ENSMMUG00000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	2.763409627	1.59E-13	1.07E-11
ENSMMUG00000020348	BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]	2.759124115	3.47E-05	0.000394908
ENSMMUG00000059019		2.759057823	2.20E-08	5.96E-07
ENSMMUG00000049786		2.758732792	0.001102797	0.007244706
ENSMMUG00000007085	zinc finger and BTB domain containing 16 [Source:VGNC Symbol;Acc:VGNC:78845]	2.756672502	0.006072709	0.028014931
ENSMMUG00000023289	phospholipase D1 [Source:VGNC Symbol;Acc:VGNC:76171]	2.749212811	0.008501681	0.036716961
ENSMMUG00000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	2.743468815	0.000232534	0.002009253
ENSMMUG00000024598	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.742161941	0.008571934	0.036993687

ENSMMUG00000051522	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.725815002	0.011924121	0.048019133
ENSMMUG00000031821	chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]	2.724050361	0.00034506	0.002784319
ENSMMUG00000004215	LRAT domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74321]	-2.71378093	0.007092297	0.031728496
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	2.710039836	0.009953423	0.041790466
ENSMMUG00000060455		2.707050799	0.006011133	0.027816599
ENSMMUG00000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	2.703141044	9.93E-08	2.34E-06
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	2.691511834	0.00011289	0.001087667
ENSMMUG00000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	2.687075976	1.31E-06	2.26E-05
ENSMMUG00000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	2.678659802	3.54E-09	1.13E-07
ENSMMUG00000012480	REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]	2.676970698	6.17E-06	8.79E-05
ENSMMUG00000051169		2.671438207	0.003658636	0.019042078
ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	2.659254388	2.79E-11	1.28E-09
ENSMMUG00000011555	interleukin 16 [Source:VGNC Symbol;Acc:VGNC:84355]	2.647971769	0.000752564	0.005304712
ENSMMUG00000016077	isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]	2.641138953	4.50E-05	0.000490036
ENSMMUG00000015004	TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]	2.637612631	0.000158141	0.001460209
ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]	2.635762035	8.71E-05	0.000880719
ENSMMUG00000051429		2.622359441	0.004762018	0.023185416
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	2.616434564	5.58E-18	7.42E-16
ENSMMUG00000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	-2.59343598	1.65E-06	2.73E-05
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	2.590693081	2.92E-12	1.58E-10
ENSMMUG00000037806	chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]	2.587972815	0.008211073	0.0357845
ENSMMUG00000010543	PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]	2.583176569	0.001459158	0.00907786
ENSMMUG00000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	2.578291859	4.57E-12	2.40E-10
ENSMMUG00000023791	SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]	2.571207809	0.002467031	0.013799701
ENSMMUG00000000229	transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]	-2.56054179	0.002491886	0.013893309
ENSMMUG00000051936		2.555584968	0.000459625	0.003517235
ENSMMUG00000038661		-2.52401368	9.85E-14	6.78E-12
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	2.517328102	9.44E-10	3.40E-08
ENSMMUG00000057276		2.511513701	0.004970579	0.023993414
ENSMMUG00000005119	histocompatibility minor 13 [Source:VGNC Symbol;Acc:VGNC:81418]	2.507259517	0.008576408	0.036999661

ENSMMUG00000017427	ATPase Na ⁺ /K ⁺ transporting subunit alpha 3 [Source:NCBI gene;Acc:706513]	2.499994109	0.005039227	0.024227129
ENSMMUG00000051190	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.488346225	0.002234924	0.012709138
ENSMMUG00000064216		2.486339999	0.00696147	0.031295259
ENSMMUG00000044628		2.484485568	3.97E-05	0.000442696
ENSMMUG00000059128		2.479703271	0.0010615	0.007031263
ENSMMUG00000058332	testis expressed 46 [Source:NCBI gene;Acc:709002]	2.479476217	0.000358911	0.002882842
ENSMMUG00000031965	aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]	2.471180674	0.008323115	0.036167499
ENSMMUG00000015634	centromere protein F [Source:VGNC Symbol;Acc:VGNC:71009]	2.455886726	0.002704662	0.014858273
ENSMMUG00000059406	RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]	2.455000968	0.001263133	0.008072187
ENSMMUG00000061986		2.444320446	0.009702262	0.040956748
ENSMMUG00000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	2.439983614	4.54E-13	2.82E-11
ENSMMUG00000061096	tubulin polymerization promoting protein [Source:NCBI gene;Acc:708834]	2.438631714	0.003707558	0.019246518
ENSMMUG00000060892		2.428469775	0.000552087	0.004124634
ENSMMUG00000005295	parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]	2.417721431	0.005403684	0.025555426
ENSMMUG00000013907	ribosomal protein S27a [Source:NCBI gene;Acc:718909]	2.414125066	0.000813773	0.005682059
ENSMMUG00000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	2.412045369	1.22E-06	2.12E-05
ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	-2.4090024	0.000642297	0.004673237
ENSMMUG00000055585		2.402340491	5.64E-06	8.08E-05
ENSMMUG00000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]	2.398768012	1.39E-12	8.03E-11
ENSMMUG00000062791		2.391241022	0.000355275	0.002857473
ENSMMUG00000059115		2.389459848	1.21E-05	0.000159795
ENSMMUG00000018565	ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]	2.386225318	0.003908797	0.020108143
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	-2.37761649	4.04E-12	2.15E-10
ENSMMUG00000052287		2.350846776	0.003965063	0.020319041
ENSMMUG00000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	2.349249301	3.79E-10	1.46E-08
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	2.340929887	6.32E-07	1.19E-05
ENSMMUG00000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	2.340584633	8.93E-08	2.12E-06
ENSMMUG00000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	2.335225655	5.93E-17	6.77E-15
ENSMMUG00000059575		-2.32086512	4.67E-17	5.60E-15

ENSMMUG0000009702	mutS homolog 5 [Source:NCBI gene;Acc:715494]	2.320568979	0.006551608	0.029776873
ENSMMUG00000015550	PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]	2.318362547	0.000106581	0.001036049
ENSMMUG00000022762	OMA1 zinc metalloproteinase [Source:VGNC Symbol;Acc:VGNC:75485]	2.318265255	5.06E-09	1.56E-07
ENSMMUG00000022726	dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]	2.313181481	0.000503433	0.003808665
ENSMMUG00000008228	unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]	2.303633526	0.001082853	0.007141107
ENSMMUG00000056165		2.302816677	0.000101241	0.000992197
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	2.299967721	0.00011048	0.001068746
ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]	2.291190363	0.00061321	0.004488877
ENSMMUG00000055161		2.285816442	0.007492869	0.033185874
ENSMMUG00000053344	splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]	-2.27907243	0.001389897	0.008705754
ENSMMUG00000011821	phosphatidylinositol transfer protein membrane associated 1 [Source:VGNC Symbol;Acc:VGNC:76007]	2.277813802	0.010722393	0.044371591
ENSMMUG00000019105	RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]	2.275016408	0.00013937	0.001307045
ENSMMUG00000060346		2.265104595	0.000100931	0.000989966
ENSMMUG00000002250	beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]	2.262888462	0.003054419	0.01630839
ENSMMUG00000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.253180568	1.60E-05	0.00020344
ENSMMUG00000063268		2.246615287	0.000530132	0.003990486
ENSMMUG00000021932	Rho GTPase activating protein 27 [Source:VGNC Symbol;Acc:VGNC:69935]	2.241603204	0.000274862	0.002307393
ENSMMUG00000029475	zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]	2.238911141	0.000466258	0.003561165
ENSMMUG00000060062		2.237813688	0.007731168	0.034039878
ENSMMUG00000012775	nuclear receptor subfamily 0 group B member 1 [Source:NCBI gene;Acc:574154]	2.226330929	0.01095598	0.045057971
ENSMMUG00000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	2.211647663	5.45E-17	6.28E-15
ENSMMUG00000006731	CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]	2.208738588	1.39E-08	3.93E-07
ENSMMUG00000028925	HDGF like 2 [Source:NCBI gene;Acc:693476]	2.196274741	0.005382868	0.025510575
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	2.194912648	1.57E-09	5.39E-08
ENSMMUG00000055560		2.192709152	0.004236674	0.021282889
ENSMMUG00000055903	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.177766962	0.007551112	0.033393162
ENSMMUG00000020050	salt inducible kinase 1 [Source:NCBI gene;Acc:722303]	2.176301126	0.004558695	0.022467052
ENSMMUG00000007313	histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]	2.169749714	0.000143052	0.001335303
ENSMMUG00000023462	immunoglobulin like domain containing receptor 2 [Source:VGNC Symbol;Acc:VGNC:73619]	-2.16938963	0.008924577	0.038198975

ENSMMUG00000050544		-	2.168063877	3.56E-06	5.46E-05
ENSMMUG0000000224	RALBP1 associated Eps domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76738]	-	2.165243033	0.010022625	0.041954199
ENSMMUG00000007504	myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]	-	2.162680885	0.002940444	0.015812643
ENSMMUG00000052518	SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]	-	2.161937564	0.010218991	0.042650639
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	-	-2.15858638	2.14E-07	4.73E-06
ENSMMUG00000012474	ring finger protein 31 [Source:NCBI gene;Acc:715239]	-	2.156409367	0.006676788	0.030185435
ENSMMUG00000059728	tumor protein p53 inducible protein 11 [Source:NCBI gene;Acc:715295]	-	2.153995011	0.002582468	0.014305105
ENSMMUG00000001172	spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]	-	-2.15384945	0.000478505	0.003636156
ENSMMUG00000057302		-	2.139099588	0.005222242	0.024926891
ENSMMUG00000051482		-	2.137279654	7.03E-06	9.86E-05
ENSMMUG00000013643	zinc finger CCHC-type containing 8 [Source:VGNC Symbol;Acc:VGNC:79487]	-	2.130932307	0.006057352	0.02796563
ENSMMUG00000016845	zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]	-	2.120861865	0.003738452	0.019364922
ENSMMUG00000005204	VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]	-	2.120204653	0.000183775	0.001649841
ENSMMUG00000056910		-	2.117255092	4.14E-06	6.22E-05
ENSMMUG00000052609	ribosomal protein L34 [Source:NCBI gene;Acc:696636]	-	2.114477347	0.000387435	0.003052578
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	-	2.112893685	4.35E-29	3.11E-26
ENSMMUG00000018346	coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]	-	2.106829636	0.000204197	0.00180211
ENSMMUG00000061594		-	2.106646172	0.004328016	0.021632855
ENSMMUG00000015002	chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]	-	2.106369265	0.002864755	0.015496072
ENSMMUG00000019992	growth factor receptor bound protein 10 [Source:VGNC Symbol;Acc:VGNC:73157]	-	2.105749458	0.00380464	0.019639816
ENSMMUG00000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	-	2.100202124	6.62E-07	1.23E-05
ENSMMUG00000055759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.099449167	2.68E-05	0.000316412
ENSMMUG00000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	-	2.092696439	1.75E-10	7.12E-09
ENSMMUG00000057494	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]	-	2.091246396	2.05E-07	4.55E-06
ENSMMUG00000009958	ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]	-	2.089455955	0.00019221	0.001716558
ENSMMUG00000049194		-	2.087635304	0.011407212	0.046388037
ENSMMUG00000056363		-	2.087034134	0.001430767	0.00892441
ENSMMUG00000037625		-	2.085908891	2.48E-06	3.95E-05
ENSMMUG00000059525		-	2.085088263	4.55E-07	9.04E-06

ENSMMUG0000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	2.079439248	1.57E-06	2.63E-05
ENSMMUG00000059518		2.078350075	0.008467491	0.036608908
ENSMMUG00000060893		2.077907077	0.001132495	0.007383105
ENSMMUG00000007398	potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]	2.077616132	2.61E-05	0.000308842
ENSMMUG00000023012	vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]	2.075196276	0.000231763	0.002005139
ENSMMUG00000001024	ETS transcription factor ELK4 [Source:VGNC Symbol;Acc:VGNC:72211]	2.074086935	0.004450187	0.022105119
ENSMMUG00000017173	heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]	2.072545563	0.000940803	0.006376374
ENSMMUG00000059101		2.053273171	0.001604738	0.00981028
ENSMMUG00000021534	solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]	2.050607636	0.00155308	0.009557908
ENSMMUG00000058603		2.050271876	0.002122141	0.012239351
ENSMMUG00000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	-2.05016662	7.67E-07	1.39E-05
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	2.048969053	2.83E-06	4.44E-05
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]	-2.04770422	0.000200238	0.001775016
ENSMMUG00000064626	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	2.046003951	0.005806183	0.027087981
ENSMMUG00000056585		2.040112165	0.010398044	0.04328362
ENSMMUG00000002183	oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]	2.034235056	5.75E-09	1.77E-07
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	2.029407129	5.44E-05	0.000577715
ENSMMUG00000001800	cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]	2.027641919	2.00E-05	0.000245829
ENSMMUG00000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]	2.022528096	3.90E-09	1.23E-07
ENSMMUG00000000669	gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]	2.022400613	0.00985356	0.041449326
ENSMMUG00000060536		2.018591746	0.0021278	0.012257108
ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	-2.01747674	4.49E-05	0.000490036
ENSMMUG00000020812	A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]	2.013576703	0.001222242	0.007856991
ENSMMUG00000001940	NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]	2.007132236	6.58E-07	1.23E-05
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	2.002264622	8.65E-09	2.57E-07
ENSMMUG00000013501	CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]	1.996802541	0.005006943	0.024106665
ENSMMUG00000056687		1.993459561	5.39E-07	1.05E-05
ENSMMUG00000064719		1.993156671	0.001122449	0.007343438
ENSMMUG00000020175	mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]	1.991740901	0.000952285	0.006439617

ENSMMUG00000056544		-	1.989995018	0.000484642	0.003675791
ENSMMUG00000012473	proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]	-	1.989169789	0.008120783	0.035507299
ENSMMUG00000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]	-	1.986731276	0.000747407	0.005280792
ENSMMUG00000053384		-	1.986019776	1.71E-10	7.00E-09
ENSMMUG00000001293	autophagy related 16 like 2 [Source:VGNC Symbol;Acc:VGNC:70130]	-	1.982283988	0.00463888	0.022731272
ENSMMUG00000018058	ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]	-	1.976865224	2.23E-07	4.91E-06
ENSMMUG00000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]	-	1.971632374	2.62E-18	3.69E-16
ENSMMUG00000012587	zinc finger protein 69 [Source:NCBI gene;Acc:717030]	-	1.968689022	3.42E-09	1.09E-07
ENSMMUG00000050015	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-1.96814356	-1.96814356	0.005120656	0.024539808
ENSMMUG00000022309	ETS repressor factor like [Source:NCBI gene;Acc:722195]	-1.96283288	-1.96283288	0.001883755	0.011146172
ENSMMUG00000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	-	1.956165315	8.19E-13	4.90E-11
ENSMMUG00000032031		-1.95386522	-1.95386522	0.000567116	0.004215881
ENSMMUG00000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	-	1.950392535	7.51E-20	1.28E-17
ENSMMUG00000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	-	1.947044313	2.30E-06	3.68E-05
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	-	1.945321853	2.81E-06	4.41E-05
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	-1.94530283	-1.94530283	4.03E-29	3.11E-26
ENSMMUG00000005067	elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]	-	1.944332338	3.58E-06	5.46E-05
ENSMMUG00000012191	coiled-coil domain containing 153 [Source:NCBI gene;Acc:704216]	-	1.935966121	0.009813531	0.041339025
ENSMMUG00000007325	Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]	-	1.934635829	0.000625833	0.004567321
ENSMMUG00000009493	family with sequence similarity 120A [Source:NCBI gene;Acc:717459]	-1.931871	-1.931871	3.22E-06	4.99E-05
ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	-	1.928424489	4.81E-15	3.95E-13
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	-	1.928278449	3.96E-11	1.75E-09
ENSMMUG00000026103	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	1.928126652	0.009103298	0.038852851
ENSMMUG00000063354		-	1.924323946	0.001325866	0.008414716
ENSMMUG00000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-	1.913538298	4.32E-07	8.66E-06
ENSMMUG00000063586	zinc finger protein 536 [Source:NCBI gene;Acc:713142]	-	1.909130937	0.001277123	0.008148547
ENSMMUG00000013029	surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]	-	1.902513256	0.000224783	0.001959247
ENSMMUG00000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	-1.90238095	-1.90238095	3.19E-11	1.44E-09
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	-	1.901269405	2.64E-05	0.000312107
ENSMMUG00000014027	nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]	-	1.899197784	0.000111921	0.00108007
ENSMMUG00000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	-	1.891056445	2.13E-05	0.000259303

ENSMMUG00000044729	transcription factor AP-4 [Source:NCBI gene;Acc:707513]	1.889818553	0.000749485	0.005292355
ENSMMUG00000004178	NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]	1.884419607	4.24E-06	6.33E-05
ENSMMUG000000052682		1.883425768	0.001413524	0.008835265
ENSMMUG000000051296	paired like homeobox 2B [Source:NCBI gene;Acc:701940]	1.879725091	0.005589497	0.026281829
ENSMMUG000000011810	FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]	1.879184102	0.000932542	0.00633473
ENSMMUG000000003946	ADP-ribosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:69890]	-1.876171	0.007767504	0.034162182
ENSMMUG000000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	1.869292781	8.70E-08	2.07E-06
ENSMMUG000000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	1.863079539	1.13E-16	1.19E-14
ENSMMUG000000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.862709813	1.69E-05	0.000212909
ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	1.861148754	4.96E-06	7.23E-05
ENSMMUG000000012481	importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]	-1.8603275	0.000527494	0.003975627
ENSMMUG000000009831	TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]	1.858907519	3.52E-05	0.000399974
ENSMMUG000000055783		1.856240095	0.007367754	0.032728571
ENSMMUG000000020993	cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]	1.853241582	0.000275481	0.002310337
ENSMMUG000000055271		1.852386805	0.000739498	0.005240372
ENSMMUG000000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	-1.84975828	1.10E-09	3.89E-08
ENSMMUG000000054302	antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]	1.836332795	4.07E-05	0.000450752
ENSMMUG000000010113	steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]	-1.83609369	2.17E-08	5.90E-07
ENSMMUG000000002093	testis expressed 261 [Source:NCBI gene;Acc:703863]	-1.83544903	8.67E-12	4.33E-10
ENSMMUG000000009038	titin [Source:NCBI gene;Acc:703527]	1.833516188	0.00054594	0.004086364
ENSMMUG000000008974	Fc receptor like 5 [Source:NCBI gene;Acc:718771]	1.833024694	6.46E-07	1.21E-05
ENSMMUG000000009782	C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]	1.827866818	0.001020165	0.006806405
ENSMMUG000000007411	integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]	-1.82750909	6.82E-07	1.26E-05
ENSMMUG000000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]	1.826091353	0.000455206	0.003487876
ENSMMUG000000004208	serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]	1.825357944	0.008595624	0.037055864
ENSMMUG000000000117	HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]	1.815587473	1.95E-05	0.000239443
ENSMMUG000000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	-1.81317422	0.002915481	0.015699548
ENSMMUG000000051354		1.812926634	0.011084745	0.04538123
ENSMMUG000000007424	nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]	1.810135017	5.44E-07	1.06E-05
ENSMMUG000000021670	solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]	1.809988723	3.50E-06	5.37E-05
ENSMMUG000000019978	HERV-H LTR-associating 2 [Source:VGNC Symbol;Acc:VGNC:73377]	1.809121912	0.002929906	0.015763051
ENSMMUG000000021282	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]	-1.80225936	8.57E-06	0.000117877

ENSMMUG00000016286	protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]	1.801123938	2.75E-10	1.09E-08
ENSMMUG00000054116	T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]	1.799487118	1.58E-06	2.65E-05
ENSMMUG00000012120	zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]	1.794986565	4.19E-06	6.27E-05
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	1.793829949	0.000315554	0.002579655
ENSMMUG00000047994	CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]	1.792376524	0.000241091	0.002072724
ENSMMUG00000056045		1.784196194	1.44E-05	0.00018528
ENSMMUG00000049997		1.779243086	1.25E-10	5.18E-09
ENSMMUG00000008113	pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]	1.772665149	0.000916617	0.006247812
ENSMMUG00000023558	exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]	1.772027131	0.00233233	0.013175463
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	1.770608255	2.64E-08	7.02E-07
ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]	1.770507088	9.98E-06	0.000135022
ENSMMUG00000043001	milk fat globule EGF and factor V/VIII domain containing [Source:NCBI gene;Acc:703501]	1.769651667	0.000604835	0.004446387
ENSMMUG00000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	1.766683893	0.001579041	0.009682846
ENSMMUG00000051261		1.760492527	0.000492211	0.003728476
ENSMMUG00000003261	BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]	1.759344719	1.14E-09	4.01E-08
ENSMMUG00000003302	dystrobrevin alpha [Source:VGNC Symbol;Acc:VGNC:72007]	1.756873724	0.003150336	0.016753295
ENSMMUG00000057064		1.756872978	0.012219576	0.048943754
ENSMMUG00000021788	immunoglobulin superfamily DCC subclass member 4 [Source:VGNC Symbol;Acc:VGNC:73388]	1.753782211	0.002755305	0.01506049
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	1.752875178	3.58E-06	5.46E-05
ENSMMUG00000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]	1.749421424	7.54E-09	2.26E-07
ENSMMUG00000054213	parathyroid hormone [Source:NCBI gene;Acc:700195]	1.748201568	0.003123944	0.01662771
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	1.745046644	3.46E-07	7.17E-06
ENSMMUG00000057697		1.743479787	5.32E-05	0.000567031
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]	1.739071309	2.60E-13	1.70E-11
ENSMMUG00000043411	zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]	1.738444598	0.001349761	0.008521213
ENSMMUG00000011183	olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]	1.736938756	0.001576467	0.009674539
ENSMMUG00000017246	lipoxygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	1.736774297	7.35E-09	2.22E-07
ENSMMUG00000061068		1.735263748	8.39E-06	0.000115669

ENSMMUG00000050952		1.733859568	0.001828882	0.010886028
ENSMMUG00000054064		1.729374461	6.07E-07	1.15E-05
ENSMMUG00000050239		1.729171437	0.00013002	0.001232873
ENSMMUG00000021280	leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]	1.728937652	7.39E-06	0.000102786
ENSMMUG00000021507	chromosome 2 C3orf38 homolog [Source:VGNC Symbol;Acc:VGNC:70654]	1.727063241	0.007439672	0.032999077
ENSMMUG00000017931	gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]	1.726880605	0.000102288	0.00100164
ENSMMUG00000008009	family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]	1.726601328	6.95E-05	0.000721027
ENSMMUG00000015845	beta-1,4-N-acetyl-galactosaminyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70120]	1.720570198	0.006846855	0.030861097
ENSMMUG00000063668	cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]	1.720137814	0.000359271	0.0028838
ENSMMUG00000055226	DNA damage inducible transcript 4 [Source:NCBI gene;Acc:715307]	1.719131322	0.006582316	0.02985978
ENSMMUG00000055887		1.717474991	0.001858371	0.011031172
ENSMMUG00000024186	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-1.71562898	0.010149017	0.042394359
ENSMMUG00000061796		1.713214433	0.000346038	0.00278644
ENSMMUG00000004082	GRB10 interacting GYF protein 1 [Source:VGNC Symbol;Acc:VGNC:73158]	1.712790074	0.004645308	0.022744156
ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	1.712005851	7.81E-11	3.32E-09
ENSMMUG00000022656	perilipin 4 [Source:NCBI gene;Acc:693610]	1.708796718	0.007755715	0.034122868
ENSMMUG00000003973	autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]	1.703660589	0.000100505	0.0009866
ENSMMUG00000031121	solute carrier family 25 member 18 [Source:VGNC Symbol;Acc:VGNC:77434]	1.700610961	0.000203303	0.001796868
ENSMMUG00000051661		1.699709149	0.000889897	0.006107806
ENSMMUG00000011049	leucine rich repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:81087]	1.695336672	0.000535627	0.00402426
ENSMMUG00000001942	mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]	1.694561458	1.60E-09	5.51E-08
ENSMMUG00000049437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.693439883	0.000425115	0.003293129
ENSMMUG00000038768	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.693130241	0.001257806	0.008049889
ENSMMUG00000013503	mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]	-1.69023357	0.00199936	0.011691569
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	1.690097943	7.28E-11	3.11E-09
ENSMMUG00000049788		-1.68989327	0.003517126	0.01842066
ENSMMUG00000006682	chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]	1.686889005	0.009524696	0.040320875
ENSMMUG00000056303		-1.6852383	0.008304385	0.036099205
ENSMMUG00000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	1.684642268	0.000379294	0.003000277
ENSMMUG00000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	1.684587822	0.000665361	0.00480891

ENSMMUG00000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]	1.680471971	3.04E-08	7.93E-07
ENSMMUG00000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	-1.68033446	9.48E-06	0.000128883
ENSMMUG00000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	1.678926504	0.00657942	0.02985795
ENSMMUG00000064458		1.675025217	9.98E-05	0.000981606
ENSMMUG00000008632	myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]	1.672775704	0.003231208	0.017114971
ENSMMUG00000007620	transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]	1.671325174	3.69E-06	5.60E-05
ENSMMUG00000064979	B9 domain containing 2 [Source:NCBI gene;Acc:704873]	1.667655293	0.006445541	0.029395203
ENSMMUG00000017414	calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]	1.667571479	5.61E-06	8.05E-05
ENSMMUG00000012124	ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]	1.667456925	0.000739343	0.005240372
ENSMMUG00000006775	proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]	1.666399052	1.77E-11	8.47E-10
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	1.665972653	2.52E-09	8.27E-08
ENSMMUG00000007766	suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]	1.665751681	1.95E-06	3.17E-05
ENSMMUG00000052786		1.664339084	0.00787129	0.034580548
ENSMMUG00000050864		1.660284703	9.39E-05	0.000933625
ENSMMUG00000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	1.658839818	5.54E-07	1.07E-05
ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]	1.658167938	0.007270785	0.032369861
ENSMMUG00000045592		1.656114167	0.007055311	0.031610325
ENSMMUG00000005442	5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]	1.654983989	1.12E-05	0.000149264
ENSMMUG00000005181	RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]	1.649030647	0.004121502	0.020844216
ENSMMUG00000051999		1.645735975	0.0053195	0.025270264
ENSMMUG00000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]	1.644405636	2.39E-12	1.32E-10
ENSMMUG00000012615	pecanex 2 [Source:NCBI gene;Acc:712828]	1.643728292	0.000161334	0.001483972
ENSMMUG00000051112	p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]	1.642106042	0.000471184	0.003592512
ENSMMUG00000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]	1.641330997	4.31E-07	8.66E-06
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]	1.640304388	1.38E-12	8.01E-11
ENSMMUG00000056737		1.639679054	7.68E-05	0.000788052
ENSMMUG00000052830		1.638209335	0.000152983	0.001418051
ENSMMUG00000014672	mitogen-activated protein kinase kinase kinase 20 [Source:NCBI gene;Acc:698274]	1.638136805	0.009961502	0.041790466
ENSMMUG00000008710	protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]	-1.63765755	0.000208619	0.001837077

ENSMMUG00000022927	RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]	1.635181625	4.87E-08	1.23E-06
ENSMMUG00000010695	adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]	1.635125353	0.000291172	0.002415937
ENSMMUG00000049859		1.634487672	1.41E-06	2.39E-05
ENSMMUG00000055365		1.634379841	0.005104087	0.024479995
ENSMMUG00000022625	periaxin [Source:VGNC Symbol;Acc:VGNC:76248]	1.633461282	0.001066915	0.007055425
ENSMMUG0000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	1.633095167	3.77E-05	0.00042404
ENSMMUG00000061268	PLAG1 zinc finger [Source:NCBI gene;Acc:696149]	1.632371701	0.000866447	0.005970408
ENSMMUG00000064596	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674454]	1.632162577	0.001121032	0.007340336
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]	1.629239243	7.10E-06	9.92E-05
ENSMMUG00000022124	stonin 2 [Source:VGNC Symbol;Acc:VGNC:78249]	1.628896019	0.002226689	0.012683819
ENSMMUG00000004387	ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]	1.628538553	5.19E-05	0.000555435
ENSMMUG00000018943	spermatogenesis associated 18 [Source:VGNC Symbol;Acc:VGNC:78013]	1.624435538	0.000170887	0.001553944
ENSMMUG00000050245		1.624292238	0.00661363	0.029962581
ENSMMUG00000051088		1.623478519	0.003517706	0.01842066
ENSMMUG00000021393	calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]	1.623455348	1.61E-05	0.00020344
ENSMMUG00000017076	tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]	1.618698019	4.39E-07	8.80E-06
ENSMMUG00000004386	sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]	-1.6171405	0.008836097	0.037942309
ENSMMUG00000014001	protein phosphatase 2 scaffold subunit A beta [Source:VGNC Symbol;Acc:VGNC:76375]	1.616880774	0.004914244	0.023769381
ENSMMUG00000052372		1.615784399	0.005164452	0.024710136
ENSMMUG00000057840	leucine-rich repeat-containing protein 37A3 [Source:NCBI gene;Acc:715030]	1.615747473	0.001857968	0.011031172
ENSMMUG00000052282		1.613908741	1.12E-05	0.000149264
ENSMMUG00000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	1.613896283	4.46E-07	8.93E-06
ENSMMUG00000052817	Sp7 transcription factor [Source:NCBI gene;Acc:702575]	1.612511476	0.001295765	0.008254299
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	1.612503619	0.001716834	0.010326873
ENSMMUG00000015151	interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]	1.612209278	0.001265016	0.008079911
ENSMMUG00000007968	hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]	1.607680905	1.54E-05	0.000196767
ENSMMUG00000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]	1.606083028	2.91E-05	0.000338762
ENSMMUG00000009520	gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]	1.605310214	0.000298742	0.002460722
ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	-1.6041352	0.000584564	0.004324113

ENSMMUG00000059038	5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]	1.601389908	5.87E-05	0.000619589
ENSMMUG00000060527		1.599884706	2.58E-05	0.000305907
ENSMMUG00000058240		1.598469124	0.000981451	0.00659588
ENSMMUG00000003877	KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]	-1.59552437	0.000681441	0.00489265
ENSMMUG00000020898	cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]	1.594356433	0.001691707	0.010221939
ENSMMUG00000000797	exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]	-1.58844791	7.17E-07	1.31E-05
ENSMMUG00000014997	spalt like transcription factor 2 [Source:NCBI gene;Acc:708367]	1.587236636	8.96E-05	0.000900193
ENSMMUG00000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]	1.586620391	0.002289501	0.012970232
ENSMMUG000000052031		1.584720735	4.67E-06	6.89E-05
ENSMMUG00000008447	fibulin 5 [Source:VGNC Symbol;Acc:VGNC:72622]	-1.58160561	3.12E-05	0.000359656
ENSMMUG00000005801	glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]	1.581226545	1.06E-06	1.85E-05
ENSMMUG00000015143	F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]	1.573935376	0.001542378	0.009526313
ENSMMUG00000000690	catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]	1.570596213	2.76E-05	0.00032461
ENSMMUG000000057021	CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]	1.569777192	0.000634834	0.004627374
ENSMMUG000000064519		-1.56922315	0.006011135	0.027816599
ENSMMUG000000020540	NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]	1.561516856	0.000895884	0.006137935
ENSMMUG000000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	-1.55959018	3.82E-13	2.42E-11
ENSMMUG000000051670		1.558929095	2.13E-05	0.000259303
ENSMMUG000000053721		1.556589461	0.000815064	0.005685033
ENSMMUG00000017114	pleckstrin homology domain containing A6 [Source:VGNC Symbol;Acc:VGNC:76040]	1.552477573	0.004891928	0.023690148
ENSMMUG00000014980	keratin 76 [Source:VGNC Symbol;Acc:VGNC:74112]	1.551839682	0.007154911	0.031948425
ENSMMUG000000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	1.550286031	8.54E-10	3.14E-08
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	1.548105464	2.89E-13	1.87E-11
ENSMMUG000000054711		-1.54778281	8.35E-07	1.50E-05
ENSMMUG00000011573	cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]	1.545964983	0.000408378	0.003179935
ENSMMUG00000007255	microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]	1.545519189	0.006510952	0.029625822
ENSMMUG000000021636	SAP30 binding protein [Source:VGNC Symbol;Acc:VGNC:77142]	1.542824227	0.004862316	0.023575345
ENSMMUG000000022278	mitochondrial transcription termination factor 2 [Source:VGNC Symbol;Acc:VGNC:74868]	1.542768673	0.008666781	0.037319616
ENSMMUG000000022724		1.540903853	0.000838721	0.005816171
ENSMMUG000000049948		1.540580459	9.57E-06	0.00012991
ENSMMUG00000000364	translocase of outer mitochondrial membrane 22 [Source:NCBI gene;Acc:701286]	1.537236407	0.008496676	0.036708581

ENSMMUG00000054020	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.535289991	0.002855161	0.015465131
ENSMMUG00000005913	activating transcription factor 7 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70103]	1.534834978	0.001312965	0.008350541
ENSMMUG00000044958	adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]	1.532873292	8.13E-07	1.47E-05
ENSMMUG00000062527		1.531901004	9.88E-07	1.75E-05
ENSMMUG00000012110	smoothened, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	1.529888582	0.000285964	0.002381574
ENSMMUG00000061687		1.529400333	0.007545222	0.03338071
ENSMMUG00000051552		1.523271542	4.54E-05	0.000494106
ENSMMUG00000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]	1.522388956	0.003370776	0.017720987
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	1.522168974	5.72E-07	1.10E-05
ENSMMUG00000062559		-1.52024041	0.005642074	0.026466698
ENSMMUG00000005751	adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]	1.518132891	0.010303884	0.0429215
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	1.516736984	2.94E-07	6.20E-06
ENSMMUG00000021775	beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]	1.516295057	1.74E-05	0.00021736
ENSMMUG00000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	1.511948143	1.13E-08	3.27E-07
ENSMMUG00000060744		1.511336864	0.000648038	0.004703578
ENSMMUG00000007561	zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]	1.511209593	6.43E-06	9.12E-05
ENSMMUG00000018031	solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]	1.510031848	0.00014108	0.001318953
ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]	-1.50762593	7.58E-05	0.000779297
ENSMMUG00000029197	YY1 transcription factor [Source:NCBI gene;Acc:717370]	1.505653868	3.11E-05	0.000358847
ENSMMUG00000043229	carbohydrate sulfotransferase 14 [Source:NCBI gene;Acc:703115]	1.501464779	0.01067018	0.044216637
ENSMMUG00000060505		1.500142344	0.0029714	0.015952694
ENSMMUG00000013878	ring finger protein 2 [Source:NCBI gene;Acc:717024]	1.500045727	0.001564532	0.009613566
ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	-1.4995325	8.86E-09	2.61E-07
ENSMMUG00000062866		-1.49478701	0.000281316	0.002350554
ENSMMUG00000057143	transmembrane protein 127 [Source:NCBI gene;Acc:705069]	1.489964569	0.000256841	0.002178421
ENSMMUG00000000983	aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]	1.489259928	0.000918522	0.006255658
ENSMMUG00000016052	seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]	1.486187285	0.000174638	0.001577277
ENSMMUG00000010980	S100 calcium binding protein A5 [Source:VGNC Symbol;Acc:VGNC:76959]	1.485649776	0.004946868	0.023888584
ENSMMUG00000004791	pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]	1.485000051	0.009861335	0.041456425
ENSMMUG00000046464	coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]	1.484634202	4.36E-05	0.000478384

ENSMMUG0000000667	zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]	1.484354175	0.001085544	0.007150976
ENSMMUG00000061004	ubiquitin specific peptidase 26 [Source:NCBI gene;Acc:706435]	1.483681358	0.004745387	0.023130139
ENSMMUG00000000262	beta-ureidopropionase 1 [Source:VGNC Symbol;Acc:VGNC:79029]	1.475510544	0.002673758	0.014715497
ENSMMUG00000061761	interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]	1.474552789	3.03E-08	7.93E-07
ENSMMUG00000061278		1.474503478	1.96E-05	0.000240596
ENSMMUG00000058942		1.473914445	8.68E-05	0.000879814
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]	1.473630146	6.25E-08	1.56E-06
ENSMMUG00000053036		1.472232282	2.86E-05	0.000333766
ENSMMUG00000023679	tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]	1.468603526	2.19E-05	0.000266237
ENSMMUG00000013848	fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]	1.467949597	1.12E-05	0.000149264
ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]	1.467843606	3.80E-09	1.20E-07
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]	1.466999165	1.51E-10	6.25E-09
ENSMMUG00000057199		1.466828382	0.011903535	0.047982746
ENSMMUG00000058580	tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]	1.462104561	1.40E-05	0.000180125
ENSMMUG00000041889	ADP ribosylation factor 6 [Source:VGNC Symbol;Acc:VGNC:84306]	1.461156378	0.012105783	0.048601696
ENSMMUG00000065307		-1.4595283	0.002002246	0.011700706
ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	1.456314985	1.80E-09	6.10E-08
ENSMMUG00000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.456103982	2.81E-05	0.000329102
ENSMMUG00000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	1.455865383	0.002540927	0.014107623
ENSMMUG00000023676	espin [Source:NCBI gene;Acc:722532]	-1.45331151	1.69E-08	4.66E-07
ENSMMUG00000064529		1.452970019	3.39E-05	0.000387954
ENSMMUG00000054817	immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]	1.450352151	0.001360141	0.008564169
ENSMMUG00000054532		1.442257284	0.000228775	0.001985367
ENSMMUG00000053008		-1.43919518	0.00166727	0.010135645
ENSMMUG00000041301	TNF superfamily member 8 [Source:NCBI gene;Acc:702944]	1.437515405	0.000137257	0.00129026
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]	1.435741501	0.000571536	0.004244385
ENSMMUG00000022602	methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]	-1.4355168	0.000684997	0.00491229
ENSMMUG00000022944	zinc finger and BTB domain containing 44 [Source:VGNC Symbol;Acc:VGNC:79466]	1.434775651	0.009281045	0.039446357
ENSMMUG00000012101	synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]	1.431034104	0.000387876	0.003053567
ENSMMUG00000032427	neuroligin 3 [Source:NCBI gene;Acc:574216]	1.430447999	1.33E-13	9.02E-12

ENSMMUG00000018459	G protein signaling modulator 3 [Source:VGNC Symbol;Acc:VGNC:72938]	1.429918163	0.008066295	0.03529483
ENSMMUG00000053648	actin binding transcription modulator [Source:NCBI gene;Acc:710486]	1.428515407	0.000471549	0.003592512
ENSMMUG00000015540	BTB domain containing 11 [Source:VGNC Symbol;Acc:VGNC:70367]	-1.42694383	0.011554039	0.046873703
ENSMMUG00000062818	regenerating islet-derived protein 3-alpha [Source:NCBI gene;Acc:716890]	1.424951069	0.008251455	0.035934335
ENSMMUG00000005900	GID complex subunit 4 homolog [Source:NCBI gene;Acc:699842]	1.423704561	0.004554976	0.022459878
ENSMMUG00000008795	polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]	-1.42257622	1.42E-05	0.000182205
ENSMMUG00000051768		1.419887634	0.001767209	0.0105662
ENSMMUG00000057501		1.419294166	0.002672842	0.014715497
ENSMMUG00000050794	zinc finger protein 774 [Source:NCBI gene;Acc:702985]	1.416725516	0.010271333	0.042830599
ENSMMUG00000018079	transmembrane serine protease 3 [Source:VGNC Symbol;Acc:VGNC:78576]	1.415381085	0.000314388	0.002573553
ENSMMUG00000061239		1.413180947	1.49E-05	0.000190758
ENSMMUG00000021197	TBC1 domain family member 4 [Source:VGNC Symbol;Acc:VGNC:78166]	1.410778614	0.012468304	0.04974031
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	1.410373071	8.13E-07	1.47E-05
ENSMMUG00000050177		1.409554487	0.000177364	0.001599485
ENSMMUG00000011214	solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]	1.409416433	0.000952195	0.006439617
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	1.408885031	8.31E-09	2.48E-07
ENSMMUG00000056116		1.407636458	6.64E-05	0.000693094
ENSMMUG00000022202	basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]	1.406184413	6.16E-07	1.16E-05
ENSMMUG00000060932	zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]	1.405860553	0.005204752	0.02488308
ENSMMUG00000018461	notch receptor 4 [Source:VGNC Symbol;Acc:VGNC:75372]	1.404754185	5.73E-05	0.000605713
ENSMMUG00000020117	semaphorin 3B [Source:VGNC Symbol;Acc:VGNC:77160]	1.403743319	0.000173579	0.001570075
ENSMMUG00000016610	CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]	1.403727286	0.003691466	0.019180172
ENSMMUG00000028701		1.403340817	0.006471869	0.02949281
ENSMMUG00000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]	1.399049016	1.13E-05	0.0001497
ENSMMUG00000021097	sushi domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78207]	1.394337274	0.005135148	0.024599414
ENSMMUG00000005923	failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]	1.391080806	0.000323335	0.002639581
ENSMMUG00000004362	Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]	1.388252957	1.54E-05	0.00019679
ENSMMUG00000003869	WD repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:78940]	1.387450977	0.001904891	0.011260108
ENSMMUG00000019148	vitronectin [Source:NCBI gene;Acc:708499]	1.387398758	5.50E-05	0.000583621

ENSMMUG00000013920	triggering receptor expressed on myeloid cells 2 [Source:VGNC Symbol;Acc:VGNC:79089]	1.386305339	0.00010863	0.001053402
ENSMMUG00000016316	testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]	1.385915289	0.006884636	0.031008046
ENSMMUG00000055835	nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]	1.385730212	0.000133107	0.001258157
ENSMMUG00000041067	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-1.38465473	0.001664538	0.010129321
ENSMMUG00000002678	integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]	1.384640265	0.000641468	0.004670043
ENSMMUG00000058016	bMERB domain containing 1 [Source:NCBI gene;Acc:713757]	1.383392651	0.000377392	0.002989865
ENSMMUG00000044759		1.383026105	4.16E-09	1.30E-07
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	1.378586173	6.00E-07	1.14E-05
ENSMMUG00000056662		1.378542863	0.000193155	0.001723516
ENSMMUG00000058855	aquaporin 5 [Source:NCBI gene;Acc:711804]	1.377467283	0.003293381	0.017390444
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	1.377389321	0.000335826	0.002725912
ENSMMUG00000008459	pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]	1.375872993	0.000859993	0.005939607
ENSMMUG00000052537		1.375381436	0.011197191	0.045751471
ENSMMUG00000052791		1.373402691	1.87E-05	0.000231201
ENSMMUG00000052460		-1.37156531	0.005006883	0.024106665
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	-1.36990439	7.02E-07	1.29E-05
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	1.369628056	0.000292081	0.002420738
ENSMMUG00000009087	HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]	1.369085145	6.67E-05	0.000694776
ENSMMUG00000018972	RNA polymerase III subunit G [Source:VGNC Symbol;Acc:VGNC:84480]	1.368290972	0.00392435	0.020146027
ENSMMUG00000023443	SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]	1.367644292	3.46E-05	0.000394891
ENSMMUG00000002657	olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]	1.366065997	0.000571659	0.004244385
ENSMMUG00000015132	galectin 8 [Source:VGNC Symbol;Acc:VGNC:74258]	-1.36499775	0.005759506	0.026922654
ENSMMUG00000054590		1.362718351	5.42E-05	0.000576038
ENSMMUG00000000620	dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]	1.360648661	0.009277127	0.039446357
ENSMMUG00000001225	calneuron 1 [Source:VGNC Symbol;Acc:VGNC:82078]	1.358698974	0.005464784	0.025786543
ENSMMUG00000062974		1.358114884	0.000373216	0.002963949
ENSMMUG00000049563		-1.35307552	2.39E-05	0.000287326
ENSMMUG00000064131		1.349908143	0.000140679	0.001316229
ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	1.347364895	0.000238471	0.002054626
ENSMMUG00000023446	tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]	1.346821068	7.71E-05	0.000788495

ENSMMUG00000065008		-	1.345950578	0.000362973	0.002903782
ENSMMUG00000018332	family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]	-	1.343849051	3.35E-06	5.17E-05
ENSMMUG00000052642	protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]	-	1.343780365	0.009466998	0.040119168
ENSMMUG00000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]	-	-1.3436083	1.11E-05	0.000148465
ENSMMUG00000064364	sulfite oxidase [Source:NCBI gene;Acc:711164]	-	-1.34179997	0.000850185	0.005882046
ENSMMUG00000032892	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.338845108	0.011708171	0.047341947
ENSMMUG00000054078	histone H3 [Source:NCBI gene;Acc:114669830]	-	1.336469923	0.003106034	0.016554459
ENSMMUG00000065031		-	1.335445472	8.66E-09	2.57E-07
ENSMMUG00000003260		-	-1.33534831	8.91E-06	0.000121984
ENSMMUG00000012819	pyruvate dehydrogenase kinase 3 [Source:VGNC Symbol;Acc:VGNC:75934]	-	1.333865601	0.004788623	0.023284025
ENSMMUG00000015619	ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]	-	1.333162691	3.53E-05	0.000401488
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	-	1.330843554	8.19E-11	3.45E-09
ENSMMUG00000023076	diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]	-	1.330235011	0.00167495	0.010151416
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	-	1.327324438	5.48E-06	7.90E-05
ENSMMUG00000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]	-	1.326676442	1.75E-05	0.000218343
ENSMMUG00000016665	NADH:ubiquinone oxidoreductase subunit A11 [Source:NCBI gene;Acc:697843]	-	1.326483909	0.002067828	0.011986594
ENSMMUG00000012129	tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]	-	1.325871929	3.01E-07	6.33E-06
ENSMMUG00000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	-	1.322328141	4.76E-10	1.81E-08
ENSMMUG00000022627	HLF transcription factor, PAR bZIP family member [Source:VGNC Symbol;Acc:VGNC:73478]	-	1.320950328	0.009736187	0.041085474
ENSMMUG00000004492	absent in melanoma 2 [Source:NCBI gene;Acc:719260]	-	1.318772944	0.002791352	0.015215852
ENSMMUG00000057062		-	1.317313522	0.00093127	0.006329676
ENSMMUG00000060798		-	-1.31685335	0.000938728	0.006365919
ENSMMUG00000012467	family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]	-	1.314324668	0.004087004	0.020704723
ENSMMUG00000051107		-	1.313210628	0.010436487	0.043428549
ENSMMUG00000062443		-	1.312679887	0.000363658	0.002905382
ENSMMUG00000004052	phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]	-	-1.31072123	0.011513633	0.046725607
ENSMMUG00000022636	GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]	-	1.310443774	0.001550657	0.009547902
ENSMMUG00000007256	splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]	-	1.309987414	0.000129858	0.001232873
ENSMMUG00000061834		-	-1.30889483	1.30E-07	2.99E-06
ENSMMUG00000063262		-	1.304963458	3.04E-06	4.75E-05
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	-	1.303719178	1.12E-08	3.26E-07

ENSMMUG00000063655	sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]	-1.30236589	9.28E-05	0.000924088
ENSMMUG00000022631	ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]	1.301641806	0.002151819	0.01237167
ENSMMUG00000017070	zinc finger and SCAN domain containing 29 [Source:VGNC Symbol;Acc:VGNC:79633]	-1.29909317	7.06E-06	9.87E-05
ENSMMUG00000022601	cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]	1.297610587	9.13E-05	0.000913033
ENSMMUG00000055272	putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]	1.294793929	0.001545172	0.009533737
ENSMMUG00000044214		1.291960815	8.71E-05	0.00088062
ENSMMUG00000061892		1.291117649	1.31E-07	3.02E-06
ENSMMUG00000000663	guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]	1.286379739	7.01E-05	0.000726386
ENSMMUG00000043161	endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]	1.286351943	0.00123156	0.007908399
ENSMMUG00000022324	formimidoyltransferase cyclodeaminase [Source:VGNC Symbol;Acc:VGNC:72825]	1.285503783	0.007926065	0.034770168
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	1.285387764	0.000148134	0.001378445
ENSMMUG00000006553	dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]	1.283195762	0.002799646	0.015233333
ENSMMUG00000016135	neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]	1.283041329	0.000779014	0.005471829
ENSMMUG00000018746	FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]	1.282139774	6.60E-06	9.32E-05
ENSMMUG00000052574		1.279431566	6.68E-07	1.24E-05
ENSMMUG00000044277	ubiquitin conjugating enzyme E2 I [Source:NCBI gene;Acc:722434]	1.278967131	0.00084518	0.005854181
ENSMMUG00000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	1.278341236	1.73E-05	0.000216586
ENSMMUG00000055477		1.276694387	0.000137655	0.001292986
ENSMMUG00000050975		1.274273796	0.001143516	0.0074428
ENSMMUG00000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]	-1.27199615	1.55E-06	2.61E-05
ENSMMUG00000050858	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.271845323	0.010738409	0.044422515
ENSMMUG00000057338		1.271410869	2.85E-06	4.47E-05
ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]	1.270866534	5.25E-05	0.000560803
ENSMMUG00000018456	PBX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:75771]	1.270512919	0.00819752	0.035751455
ENSMMUG00000016723	zinc finger protein 287 [Source:NCBI gene;Acc:695524]	1.269327979	0.01199438	0.048235291
ENSMMUG00000052676		1.267082254	4.03E-05	0.000447812
ENSMMUG00000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.266162167	5.96E-05	0.000627803
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]	1.265679126	4.78E-07	9.45E-06
ENSMMUG00000053624		1.265655714	0.002014092	0.011749032

ENSMMUG00000011712	olfactory receptor 5B21 [Source:NCBI gene;Acc:702145]	-	1.265609292	0.010226158	0.042657078
ENSMMUG00000061344		-	1.265148798	0.007046788	0.031583957
ENSMMUG00000002809	unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]	-	1.262208144	0.010819383	0.044642562
ENSMMUG00000016004	acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]	-	1.260477334	0.005986255	0.027722889
ENSMMUG00000062021		-	1.259976781	0.008835411	0.037942309
ENSMMUG00000007257	synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]	-	1.259929066	3.71E-11	1.65E-09
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	-	-1.25816634	1.98E-06	3.21E-05
ENSMMUG00000007215	X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]	-	1.258006184	0.001149154	0.007467318
ENSMMUG00000051020	zinc finger protein 467 [Source:NCBI gene;Acc:712106]	-	-1.25756272	6.91E-05	0.000717519
ENSMMUG00000022589	prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]	-	-1.25641425	0.000286588	0.002385116
ENSMMUG00000042668	cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]	-	1.255731986	0.000730567	0.005192351
ENSMMUG00000049575	T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]	-	1.255485765	0.001563165	0.009610439
ENSMMUG00000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	-	1.255304883	7.40E-05	0.00076189
ENSMMUG00000060503	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-1.25409374	0.011060824	0.045332934
ENSMMUG00000006215	serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]	-	1.253956749	1.42E-05	0.000182903
ENSMMUG00000023137	zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]	-	-1.25017209	0.000197164	0.001755565
ENSMMUG00000001294	FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]	-	1.248579936	0.001382572	0.008670496
ENSMMUG00000063747		-	1.247243231	0.002265101	0.012856328
ENSMMUG00000019713	thyroid stimulating hormone receptor [Source:VGNC Symbol;Acc:VGNC:78662]	-	1.246175325	0.004641118	0.022732938
ENSMMUG00000015189	RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]	-	1.245457302	0.000244202	0.002087482
ENSMMUG00000022624	putative speedy protein E16 [Source:NCBI gene;Acc:718058]	-	1.244622412	0.000428767	0.003314985
ENSMMUG00000015414	family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]	-	1.243743731	0.000148366	0.001379528
ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]	-	1.243564018	0.000360528	0.002891949
ENSMMUG00000046218	X antigen family member 5 [Source:NCBI gene;Acc:114669729]	-	1.242760115	0.010800856	0.044619199
ENSMMUG00000056306		-	1.239356967	0.000135671	0.001278357
ENSMMUG00000046165	chromosome 3 C7orf33 homolog [Source:NCBI gene;Acc:710503]	-	1.234516492	0.00594156	0.027590587
ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]	-	1.233915014	5.36E-06	7.75E-05
ENSMMUG00000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	-	1.233610156	3.75E-13	2.39E-11
ENSMMUG00000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	-	1.233087921	1.40E-08	3.96E-07
ENSMMUG00000018939	leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]	-	1.232527432	5.77E-07	1.10E-05
ENSMMUG00000004287	death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]	-	-1.23202615	0.000998575	0.006695929

ENSMMUG00000022305	Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]	-1.23068483	0.000139782	0.001309887
ENSMMUG00000060971		1.230113187	0.006189735	0.028445229
ENSMMUG00000011893	KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]	1.229895594	6.87E-05	0.000714433
ENSMMUG00000021083	Josephin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73920]	1.229137423	0.003678556	0.019129128
ENSMMUG00000006493	ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]	1.226587467	1.18E-06	2.06E-05
ENSMMUG00000004849	casein beta [Source:VGNC Symbol;Acc:VGNC:71523]	1.225275539	0.001224797	0.007869187
ENSMMUG00000008713	myosin binding protein H like [Source:NCBI gene;Acc:698183]	-1.2239536	2.92E-10	1.15E-08
ENSMMUG000000064202		1.223609352	0.005269805	0.025073972
ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	1.221397584	0.000380458	0.003006627
ENSMMUG00000013053	sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]	-1.22137002	0.000580173	0.004296941
ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]	1.220954164	0.000181072	0.001629239
ENSMMUG00000011702	tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]	1.220265268	0.008662018	0.037315227
ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]	1.219745717	0.000619222	0.00452459
ENSMMUG00000019977	myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]	1.219699904	4.26E-07	8.57E-06
ENSMMUG00000053889	olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]	1.218812104	0.006862789	0.030921281
ENSMMUG00000050770		1.218256978	0.00026792	0.002264369
ENSMMUG00000044047	killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]	1.218165314	0.000325883	0.002654946
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	1.216814246	3.78E-08	9.72E-07
ENSMMUG00000007524	RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]	1.216432907	0.000252723	0.002148058
ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]	1.214558131	3.66E-06	5.56E-05
ENSMMUG00000004084	GTP cyclohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:72900]	1.213575681	0.001255494	0.008046679
ENSMMUG00000019045	estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]	1.212695295	0.000976482	0.006573553
ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]	1.209774063	0.000974903	0.006566613
ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]	1.207722387	0.00216551	0.012426518
ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	-1.20458808	4.92E-06	7.18E-05
ENSMMUG00000005754	lysyl-tRNA synthetase 1 [Source:NCBI gene;Acc:714516]	1.204489371	0.011204113	0.045752168
ENSMMUG00000052030	developing brain homeobox 2 [Source:NCBI gene;Acc:701170]	1.203120522	1.20E-05	0.000157945
ENSMMUG00000003221	DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]	1.202137561	0.000721889	0.005136865
ENSMMUG00000007920	myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]	1.200251746	1.48E-05	0.000189123
ENSMMUG00000021691	spastin [Source:VGNC Symbol;Acc:VGNC:77857]	1.199289093	0.000538705	0.00404231

ENSMMUG00000049749		-	1.198208384	3.20E-07	6.66E-06
ENSMMUG00000064237		-	1.197889451	6.65E-05	0.000693522
ENSMMUG00000021291	thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]	-	1.193278016	0.00152883	0.009457266
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	-	1.192131445	1.33E-08	3.77E-07
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	-	1.191696844	0.000286937	0.002386363
ENSMMUG00000007244	OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]	-	1.190593701	4.87E-05	0.000525182
ENSMMUG00000023251	KN motif and ankyrin repeat domains 2 [Source:VGNC Symbol;Acc:VGNC:73938]	-	-1.1902701	0.006307579	0.028864948
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]	-	1.189998714	1.61E-06	2.68E-05
ENSMMUG00000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]	-	1.189303253	0.000617714	0.004516327
ENSMMUG00000021034	complement C6 [Source:VGNC Symbol;Acc:VGNC:70477]	-	-1.18927531	0.002518315	0.014000033
ENSMMUG00000009519	WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]	-	1.187504226	0.003777288	0.019523869
ENSMMUG00000063703		-	1.186858846	0.007622105	0.033633871
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	-	1.186500957	0.000300775	0.002473954
ENSMMUG00000064514	keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]	-	1.185479577	7.37E-08	1.78E-06
ENSMMUG00000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	-	1.184008525	0.006310633	0.028867893
ENSMMUG00000061260	Spi-C transcription factor [Source:NCBI gene;Acc:695809]	-	1.182503178	2.88E-05	0.000335719
ENSMMUG00000062861		-	1.182340799	0.001545106	0.009533737
ENSMMUG00000044782		-	1.182131824	1.02E-05	0.000137562
ENSMMUG00000023752	SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]	-	1.182029229	0.000912279	0.006225326
ENSMMUG00000007765	Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]	-	1.181262984	4.79E-10	1.82E-08
ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]	-	1.180412986	0.000699991	0.005004829
ENSMMUG00000012029	sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]	-	1.180148982	0.000293605	0.002429043
ENSMMUG00000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]	-	-1.17493954	3.82E-07	7.81E-06
ENSMMUG00000010114	Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]	-	1.171908181	0.001811176	0.010812886
ENSMMUG00000014810	short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]	-	1.171037504	7.38E-09	2.23E-07
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]	-	1.169057857	2.59E-08	6.91E-07
ENSMMUG00000010627	apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]	-	1.168943292	6.39E-05	0.000669491
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	-	1.165306964	1.25E-08	3.57E-07
ENSMMUG00000020910	nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]	-	1.164398117	0.001759797	0.010527137

ENSMMUG00000042798		-	1.164137918	0.00016547	0.001515035
ENSMMUG00000015923	ankyrin repeat and EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69615]	-1.16411158	-	0.007390283	0.032804308
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]	-	1.163291037	1.39E-05	0.000179462
ENSMMUG00000007775	survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]	-	1.162275013	0.009246472	0.039337743
ENSMMUG000000061117		-	1.161258767	0.000677607	0.004876818
ENSMMUG00000021459	MYC binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75011]	-	1.161215278	0.000880246	0.006055038
ENSMMUG00000000718	ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]	-	1.159235517	0.000560051	0.004171127
ENSMMUG00000020202	melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]	-	1.156958796	0.00816221	0.035649391
ENSMMUG00000048823		-	1.155073601	0.000404301	0.003154335
ENSMMUG00000013035	teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]	-	1.152449379	0.004899747	0.02371842
ENSMMUG00000064075	ring finger protein 41 [Source:NCBI gene;Acc:711969]	-	1.146509219	0.002719945	0.014928534
ENSMMUG00000058974		-1.14571735	-	0.012415202	0.049561487
ENSMMUG00000060781	G protein-coupled receptor 18 [Source:NCBI gene;Acc:698714]	-1.14497038	-	0.002153042	0.01237276
ENSMMUG00000017355	remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]	-	1.143148154	0.0090091	0.038505703
ENSMMUG00000002912	TLE family member 6, subcortical maternal complex member [Source:VGNC Symbol;Acc:VGNC:79879]	-	1.141027424	0.003041294	0.016260061
ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]	-1.14065263	-	1.87E-07	4.17E-06
ENSMMUG00000048322	eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]	-	1.137959167	0.003884839	0.01999348
ENSMMUG00000049939		-	1.136929186	2.36E-08	6.36E-07
ENSMMUG00000004988	trace amine-associated receptor 3 [Source:NCBI gene;Acc:709130]	-1.13616508	-	0.006055509	0.02796563
ENSMMUG00000046282		-	1.135371978	1.07E-07	2.50E-06
ENSMMUG00000009303	coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]	-1.13522886	-	0.003836015	0.019759189
ENSMMUG00000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]	-	1.134786802	0.011856322	0.047824626
ENSMMUG00000062676		-	1.133117259	0.00309169	0.016485345
ENSMMUG00000012238	polypeptide N-acetylgalactosaminyltransferase 11 [Source:VGNC Symbol;Acc:VGNC:72749]	-	1.132890018	0.011346589	0.046212934
ENSMMUG00000006197	plasminogen receptor with a C-terminal lysine [Source:VGNC Symbol;Acc:VGNC:76098]	-	1.131978504	0.000613091	0.004488877
ENSMMUG00000038569	5',3'-nucleotidase, mitochondrial [Source:NCBI gene;Acc:698591]	-	1.130533389	0.002039922	0.011849143
ENSMMUG00000054655	immunoglobulin lambda variable 3-10 [Source:HGNC Symbol;Acc:HGNC:5897]	-	1.128387418	0.006573033	0.029851592
ENSMMUG00000017549	ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]	-	1.126884923	0.000102636	0.001003407
ENSMMUG00000003369	calcium/calmodulin dependent protein kinase IG [Source:VGNC Symbol;Acc:VGNC:70521]	-	1.126226807	0.003349516	0.017624693
ENSMMUG00000015577	RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]	-	1.126114585	0.01006518	0.042088196
ENSMMUG00000004493	propionyl-CoA carboxylase subunit alpha [Source:VGNC Symbol;Acc:VGNC:75773]	-	1.125680628	0.000475226	0.003618122

ENSMMUG0000009695	BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]	1.125437923	0.001048209	0.006950914
ENSMMUG00000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	1.122599143	3.14E-07	6.56E-06
ENSMMUG00000016857	prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]	1.122377745	2.47E-05	0.000294214
ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]	1.120339447	0.004510362	0.022320699
ENSMMUG00000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]	1.119841782	9.12E-05	0.000913033
ENSMMUG00000002497	zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]	1.118017818	0.001785787	0.010666624
ENSMMUG00000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]	1.116875938	0.00195603	0.011492917
ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]	1.115161763	0.006118865	0.02819528
ENSMMUG00000023450	tyrosylprotein sulfotransferase 2 [Source:VGNC Symbol;Acc:VGNC:78639]	1.115037302	0.001724157	0.010365714
ENSMMUG00000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	1.113139833	1.23E-08	3.53E-07
ENSMMUG000000051366		1.112580941	0.004985715	0.02404709
ENSMMUG00000013138	Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]	-1.11187584	1.17E-05	0.000155129
ENSMMUG00000022963	solute carrier family 25 member 38 [Source:VGNC Symbol;Acc:VGNC:77571]	1.111058279	0.011348717	0.046212934
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]	1.110452847	4.10E-06	6.17E-05
ENSMMUG000000055392		1.108892448	0.01053836	0.043767624
ENSMMUG000000056147		1.107302652	0.000220586	0.001925465
ENSMMUG00000001849	interleukin 5 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73731]	1.106973704	0.000730987	0.005192351
ENSMMUG000000045105	phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]	1.106861412	0.000136208	0.001282408
ENSMMUG00000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]	-1.10667648	2.46E-05	0.0002941
ENSMMUG00000005366	alpha-L-fucosidase 2 [Source:VGNC Symbol;Acc:VGNC:72827]	1.104468317	0.007903939	0.034698523
ENSMMUG00000005634	ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]	1.104316571	0.000327881	0.002669407
ENSMMUG00000022123	tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]	1.103738952	0.000190228	0.001702668
ENSMMUG00000013094	lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]	1.103120375	4.76E-07	9.43E-06
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	1.098912471	0.004341582	0.021682565
ENSMMUG000000050862		1.098072743	0.006955667	0.031280913
ENSMMUG00000008941	DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]	1.097687954	7.34E-08	1.78E-06
ENSMMUG00000013093	uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]	1.097544622	2.02E-07	4.48E-06
ENSMMUG00000014314	ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]	1.095960184	0.00108282	0.007141107
ENSMMUG000000051641		1.095738794	0.002968934	0.015951527

ENSMMUG00000014394	DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]	1.095244253	4.73E-07	9.37E-06
ENSMMUG00000017892	RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]	-1.09353591	0.001412351	0.00883254
ENSMMUG00000016449	zinc finger protein 382 [Source:VGNC Symbol;Acc:VGNC:79078]	1.092811076	0.002195959	0.012541159
ENSMMUG00000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]	1.092655421	5.14E-08	1.29E-06
ENSMMUG00000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	1.092624516	0.000391269	0.003076715
ENSMMUG00000002032	exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]	1.091871198	0.003726345	0.019318769
ENSMMUG00000062538	adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]	1.091090964	0.00278144	0.015182553
ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]	1.090470591	1.62E-05	0.000204469
ENSMMUG00000064804		1.087690261	0.004598222	0.022615321
ENSMMUG00000019836	myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]	1.087608437	0.005595479	0.026295822
ENSMMUG00000007250	RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]	1.087126579	0.003986552	0.020402966
ENSMMUG00000012332	UBA domain containing 2 [Source:NCBI gene;Acc:703484]	1.086324523	2.30E-07	5.01E-06
ENSMMUG00000022120	transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]	1.085119278	5.61E-07	1.08E-05
ENSMMUG00000058142		1.085065614	0.000385974	0.003043071
ENSMMUG00000000618	gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]	1.084250746	0.004336253	0.021664984
ENSMMUG00000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]	1.084051411	9.93E-05	0.000978723
ENSMMUG00000004754	intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]	-1.08060413	0.000559061	0.004166346
ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	1.077017427	6.93E-08	1.71E-06
ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]	1.075879563	8.90E-07	1.59E-05
ENSMMUG00000018679	glyceraldehyde-3-phosphate dehydrogenase [Source:NCBI gene;Acc:574353]	1.073991428	0.01003048	0.041972409
ENSMMUG00000014610	ring finger protein 17 [Source:NCBI gene;Acc:708198]	1.071717249	2.33E-07	5.06E-06
ENSMMUG00000005610	protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]	1.071489832	7.01E-06	9.84E-05
ENSMMUG00000048513	tudor domain containing 15 [Source:NCBI gene;Acc:703066]	1.071450904	0.002735737	0.014980881
ENSMMUG00000003238	pregnancy zone protein [Source:NCBI gene;Acc:100430319]	1.071372671	0.000198341	0.00176473
ENSMMUG00000018284	mutS homolog 3 [Source:VGNC Symbol;Acc:VGNC:74932]	-1.0700293	5.98E-05	0.000628859
ENSMMUG00000062140		-1.06869422	0.006495671	0.029567525
ENSMMUG00000021782	LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]	1.065806817	1.27E-05	0.000166406
ENSMMUG00000018081	ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]	1.065613541	0.000672102	0.004845934
ENSMMUG00000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	-1.06460633	1.26E-06	2.18E-05
ENSMMUG00000020913	scavenger receptor class B member 2 [Source:VGNC Symbol;Acc:VGNC:77026]	1.062326747	0.001350813	0.008523226

ENSMMUG00000054176	methyltransferase like 8 [Source:NCBI gene;Acc:695361]	1.061912461	0.007134786	0.031871018
ENSMMUG00000004974	tripartite motif containing 21 [Source:VGNC Symbol;Acc:VGNC:78556]	1.061393242	0.001163432	0.007543726
ENSMMUG00000004760	CDK5 regulatory subunit associated protein 3 [Source:VGNC Symbol;Acc:VGNC:71015]	1.059331791	0.005254518	0.025031304
ENSMMUG000000051589		1.056796064	0.00647862	0.029512343
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	1.056232178	3.00E-08	7.89E-07
ENSMMUG00000019710	centrosomal protein 128 [Source:VGNC Symbol;Acc:VGNC:71062]	1.055206905	0.008941398	0.0382573
ENSMMUG00000019145	TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]	1.054888599	0.004925156	0.023812544
ENSMMUG00000001008	spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]	-1.05443657	2.41E-05	0.000288743
ENSMMUG000000061967	carbohydrate sulfotransferase 4 [Source:NCBI gene;Acc:708116]	1.052754488	0.001063883	0.007040621
ENSMMUG00000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	1.051765806	0.000444762	0.003414926
ENSMMUG000000055447	MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]	1.050992037	1.73E-05	0.000216683
ENSMMUG000000020792	Rap guanine nucleotide exchange factor 4 [Source:VGNC Symbol;Acc:VGNC:76490]	1.050862909	0.010121345	0.042308284
ENSMMUG000000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	1.050758136	3.20E-08	8.32E-07
ENSMMUG000000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	1.050704861	0.001326968	0.008417252
ENSMMUG000000009775	caveolae associated protein 4 [Source:NCBI gene;Acc:714379]	1.049982222	1.07E-06	1.88E-05
ENSMMUG000000015371	microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]	1.049034288	0.009368308	0.03978541
ENSMMUG000000007742	potassium voltage-gated channel subfamily Q member 1 [Source:VGNC Symbol;Acc:VGNC:82168]	1.048801646	0.0044062	0.021922996
ENSMMUG000000018493	FH2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72598]	1.048684042	0.005413429	0.025564365
ENSMMUG000000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	1.046909193	2.22E-06	3.56E-05
ENSMMUG000000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]	1.046128562	0.003328887	0.017546983
ENSMMUG000000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]	1.045645196	0.001068469	0.007060055
ENSMMUG000000054462		1.044557073	0.004469916	0.022175526
ENSMMUG000000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]	1.044235029	0.002256765	0.012815087
ENSMMUG000000021837	seryl-tRNA synthetase 1 [Source:NCBI gene;Acc:695046]	1.044070909	2.46E-05	0.000293664
ENSMMUG000000019854	transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]	1.043009147	0.004463681	0.022153769
ENSMMUG000000044473		1.040503337	0.002233419	0.012706614
ENSMMUG000000021409	developmentally regulated GTP binding protein 2 [Source:VGNC Symbol;Acc:VGNC:71993]	1.040381834	0.010048636	0.042033692
ENSMMUG000000006048	adaptor related protein complex 2 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69964]	1.039343702	0.000167146	0.001526883
ENSMMUG000000000388	plectin [Source:VGNC Symbol;Acc:VGNC:76173]	1.038714568	0.000516347	0.003901433

ENSMMUG0000007868	AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]	1.037244429	0.000403129	0.003151001
ENSMMUG00000043096	nuclear transcription factor, X-box binding 1 [Source:NCBI gene;Acc:702945]	1.037216886	0.010978041	0.045117715
ENSMMUG00000009839	galactokinase 2 [Source:VGNC Symbol;Acc:VGNC:72870]	1.033914636	0.007350962	0.032666092
ENSMMUG00000040958	lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]	1.033781623	0.000379125	0.003000277
ENSMMUG00000061779		1.032461764	4.02E-05	0.000446907
ENSMMUG0000006187	angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]	1.031035797	0.001715157	0.010321967
ENSMMUG00000015168	transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]	1.030542759	0.006425969	0.029317105
ENSMMUG00000019887	synaptic vesicle glycoprotein 2C [Source:VGNC Symbol;Acc:VGNC:78252]	1.029006707	0.004381329	0.02181738
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	1.028930679	2.64E-06	4.17E-05
ENSMMUG00000008827	apoptosis inhibitor 5 [Source:NCBI gene;Acc:716346]	1.025978805	0.004582983	0.022549634
ENSMMUG00000014531	transmembrane protein 109 [Source:VGNC Symbol;Acc:VGNC:79740]	1.024837179	0.005256658	0.025031304
ENSMMUG00000021370	kringle containing transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:74066]	1.023428463	0.012030607	0.048348505
ENSMMUG00000023141	CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]	1.023272886	0.009281883	0.039446357
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	1.021184495	0.000328434	0.002672099
ENSMMUG00000013032	phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]	1.018695438	0.001311042	0.008343966
ENSMMUG00000005042	RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]	-1.01728093	0.001191272	0.007682649
ENSMMUG00000049539		1.016493343	0.001836966	0.010923288
ENSMMUG00000051446		1.015389329	0.000361865	0.002900733
ENSMMUG00000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	1.014502077	9.59E-05	0.000949495
ENSMMUG00000043922	spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]	1.013071849	3.24E-05	0.000372256
ENSMMUG00000013220	cytochrome b-245 beta chain [Source:VGNC Symbol;Acc:VGNC:71576]	1.011770483	0.006193558	0.028451879
ENSMMUG00000002231	transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]	1.011700565	0.004274267	0.021435771
ENSMMUG00000015380	proline and serine rich coiled-coil 1 [Source:VGNC Symbol;Acc:VGNC:76307]	1.010546467	6.53E-09	1.99E-07
ENSMMUG00000012209	CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]	1.008652392	0.000376559	0.002986538
ENSMMUG00000005572	arachidonate 5-lipoxygenase activating protein [Source:VGNC Symbol;Acc:VGNC:69799]	1.008442314	0.003944028	0.020237225
ENSMMUG00000017379	myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]	1.006921483	0.002738147	0.014987226
ENSMMUG00000003872	ral guanine nucleotide dissociation stimulator like 2 [Source:VGNC Symbol;Acc:VGNC:76886]	1.005441315	0.009285562	0.039447992
ENSMMUG00000005170	unc-45 myosin chaperone B [Source:VGNC Symbol;Acc:VGNC:78954]	1.005212548	0.01109581	0.045399186
ENSMMUG00000061815		1.004400248	0.000688994	0.004937997

ENSMMUG00000021377	SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]	1.003612072	0.000600714	0.004428433
ENSMMUG00000064880		1.002312302	0.000170257	0.001549395
ENSMMUG00000046901	protein tyrosine phosphatase 4A2 [Source:NCBI gene;Acc:706489]	1.002224676	0.002795881	0.015233333
ENSMMUG00000033738	RNA, U6atac small nuclear 6, pseudogene [Source:HGNC Symbol;Acc:HGNC:46905]	1.001530023	3.76E-05	0.000423196
ENSMMUG00000020377	collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]	1.000058492	0.000297161	0.002452651
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	0.999337076	7.66E-05	0.000786364
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	0.999058168	0.000413163	0.003213012
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	0.996311759	0.004661397	0.022781086
ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]	0.995281031	0.001183135	0.007638394
ENSMMUG00000016354	IQ motif containing N [Source:VGNC Symbol;Acc:VGNC:73683]	0.995225944	0.000129933	0.001232873
ENSMMUG00000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]	0.994879044	0.00199048	0.01166242
ENSMMUG00000007860	diphosphoinositol pentakisphosphate kinase 1 [Source:VGNC Symbol;Acc:VGNC:76127]	0.992719238	0.005714088	0.026761193
ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]	-0.99254928	5.07E-06	7.38E-05
ENSMMUG00000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]	0.991857696	1.66E-05	0.000208486
ENSMMUG00000051042		0.991378446	0.000293692	0.002429043
ENSMMUG00000059617		0.991045482	0.001979713	0.011610695
ENSMMUG00000007601	centromere protein I [Source:NCBI gene;Acc:702316]	0.990807162	0.010516389	0.043702615
ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]	0.990291347	1.91E-05	0.000235571
ENSMMUG00000011963	vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]	-0.99016179	0.000111198	0.001074829
ENSMMUG00000043458	transmembrane protein 178A [Source:NCBI gene;Acc:714010]	0.990049342	0.004752294	0.023154384
ENSMMUG00000003134	ring finger protein 217 [Source:VGNC Symbol;Acc:VGNC:76801]	0.989599385	0.006890738	0.031023863
ENSMMUG00000006703	solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]	0.989172623	0.006651397	0.030104735
ENSMMUG00000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	0.987166126	0.000338674	0.002740512
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	0.986519421	3.90E-07	7.96E-06
ENSMMUG00000020954	cell division cycle 25A [Source:VGNC Symbol;Acc:VGNC:70794]	0.986280812	0.002980417	0.015984539
ENSMMUG00000029265	zinc finger protein 598 [Source:NCBI gene;Acc:694129]	-0.98541922	0.000210076	0.001845833
ENSMMUG00000011269	CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]	0.984311978	0.000745085	0.005269798
ENSMMUG00000059085	PR/SET domain 12 [Source:NCBI gene;Acc:716040]	0.983266055	0.012534002	0.049985752
ENSMMUG00000015375	cadherin EGF LAG seven-pass G-type receptor 2 [Source:VGNC Symbol;Acc:VGNC:71149]	0.982283437	4.11E-07	8.32E-06

ENSMMUG00000052977	putative protein FAM106C [Source:NCBI gene;Acc:106994084]	0.982268514	0.002304708	0.013037878
ENSMMUG00000051468	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.981924399	0.00026521	0.002246217
ENSMMUG00000007570	uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	0.981746285	3.25E-05	0.000372256
ENSMMUG00000022678	Rh family C glycoprotein [Source:VGNC Symbol;Acc:VGNC:84427]	-0.98138889	0.005474358	0.02582155
ENSMMUG00000047741	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.980793098	0.008519135	0.036779076
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	0.980128321	2.24E-07	4.91E-06
ENSMMUG00000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	0.978144057	1.08E-08	3.13E-07
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	0.976338869	2.41E-05	0.000289055
ENSMMUG00000022840	zonadhesin [Source:VGNC Symbol;Acc:VGNC:81797]	0.976317328	0.004457663	0.022133072
ENSMMUG00000017252	spermatogenesis associated 20 [Source:VGNC Symbol;Acc:VGNC:77993]	0.975863827	0.001956752	0.011492917
ENSMMUG00000010405	family with sequence similarity 171 member B [Source:VGNC Symbol;Acc:VGNC:72404]	0.975741232	0.011840596	0.047777283
ENSMMUG00000007917	carbonic anhydrase 4 [Source:NCBI gene;Acc:716919]	0.971330928	0.00500536	0.024106665
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	0.971183211	2.72E-05	0.000320686
ENSMMUG00000018285	cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]	0.970635792	3.82E-05	0.000428793
ENSMMUG00000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]	0.969238866	0.000702296	0.005018319
ENSMMUG00000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	0.968939651	8.65E-11	3.61E-09
ENSMMUG00000013235	collagen type IV alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:81375]	0.968929298	0.002217761	0.012647575
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	0.968010458	3.89E-06	5.88E-05
ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]	0.967807575	3.06E-05	0.000354456
ENSMMUG00000019146	DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]	-0.9650453	0.003831805	0.019754499
ENSMMUG00000000962	H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]	0.964822226	0.002972179	0.015952694
ENSMMUG00000050297		0.963079655	7.30E-05	0.000754412
ENSMMUG00000047015	ral-GDS-related protein-like [Source:NCBI gene;Acc:106995524]	0.961510927	0.007313382	0.032523233
ENSMMUG00000011675	zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]	0.960532314	0.000171651	0.001558232
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	0.959085697	8.32E-05	0.000845499
ENSMMUG00000012939	fermitin family member 3 [Source:VGNC Symbol;Acc:VGNC:72553]	0.958902422	0.000336836	0.00273118
ENSMMUG00000008212	tenomodulin [Source:VGNC Symbol;Acc:VGNC:79087]	0.955514775	0.005003188	0.024106665
ENSMMUG00000020912	spermine oxidase [Source:NCBI gene;Acc:718761]	0.954616663	0.003924573	0.020146027
ENSMMUG00000001551	SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]	0.953884125	0.002479869	0.013852102

ENSMMUG00000022647	cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]	0.953807379	0.004078603	0.020688418
ENSMMUG00000030453	NLR family pyrin domain containing 1 [Source:NCBI gene;Acc:721648]	-0.94984401	3.90E-06	5.89E-05
ENSMMUG00000031202	RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]	0.948478122	0.007866672	0.034572939
ENSMMUG00000052743	stearoyl-CoA desaturase 5 [Source:NCBI gene;Acc:694079]	0.948257596	0.005522342	0.025996685
ENSMMUG00000021173	nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]	0.947501367	2.93E-06	4.58E-05
ENSMMUG00000000443	arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]	-0.94505481	0.000935532	0.006351437
ENSMMUG00000038288	TMEM9 domain family member B [Source:NCBI gene;Acc:708447]	0.943801693	0.000278822	0.002335087
ENSMMUG00000031224	casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]	0.943395052	0.0045378	0.022391715
ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	0.942766932	0.000154587	0.001429603
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]	0.941427816	2.83E-07	6.03E-06
ENSMMUG00000007692	apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]	0.940497338	5.57E-06	8.01E-05
ENSMMUG00000006464	hepatocyte nuclear factor 4 alpha [Source:VGNC Symbol;Acc:VGNC:73492]	0.939187111	0.008442331	0.036539702
ENSMMUG00000003858	retinoid X receptor beta [Source:VGNC Symbol;Acc:VGNC:76952]	0.938988693	0.002876785	0.015533083
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	0.935167495	4.28E-06	6.37E-05
ENSMMUG00000039829		0.934456811	0.007101469	0.031745871
ENSMMUG00000012463	DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]	-0.93181656	0.002175122	0.012463759
ENSMMUG00000005466	SPOC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77997]	0.929749838	0.001323638	0.00840503
ENSMMUG00000015432	staphylococcal nuclease and tudor domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77798]	0.929574151	0.003710945	0.019255755
ENSMMUG00000007264	transmembrane protein 30B [Source:VGNC Symbol;Acc:VGNC:79656]	0.929480625	0.010295574	0.042901807
ENSMMUG00000002243	pleckstrin homology and RhoGEF domain containing G7 [Source:VGNC Symbol;Acc:VGNC:76149]	0.929138228	0.000773564	0.00543993
ENSMMUG00000053845		-0.92719853	0.009110302	0.038868298
ENSMMUG00000013707	heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]	0.923286399	0.000301167	0.002475482
ENSMMUG00000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	0.922097397	3.38E-05	0.000386222
ENSMMUG00000059353	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]	0.921656736	3.86E-05	0.000431748
ENSMMUG00000007923	phosphatidylinositol glycan anchor biosynthesis class W [Source:VGNC Symbol;Acc:VGNC:75850]	0.921357785	0.011231857	0.045825789
ENSMMUG00000001995	chromosome 14 C11orf16 homolog [Source:NCBI gene;Acc:705319]	0.919912723	0.002020859	0.011771307
ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]	0.919228786	0.011662315	0.047217001
ENSMMUG00000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	0.919151868	0.000202089	0.0017901
ENSMMUG00000013466	tetratricopeptide repeat domain 39B [Source:VGNC Symbol;Acc:VGNC:79402]	0.917462707	1.53E-06	2.58E-05
ENSMMUG00000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]	0.917104529	0.000344245	0.002779959

ENSMMUG00000015737	phosphatidylinositol glycan anchor biosynthesis class A [Source:VGNC Symbol;Acc:VGNC:75984]	0.917088646	0.000659247	0.004773542
ENSMMUG00000061002		0.917014223	0.000384552	0.003033859
ENSMMUG00000062922		0.915407416	0.010855573	0.044737215
ENSMMUG00000031296	caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]	0.914387715	0.006578438	0.02985795
ENSMMUG00000022056	DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]	-0.91344747	0.00033827	0.002739094
ENSMMUG00000057768		0.913157268	0.002252324	0.012795933
ENSMMUG00000020928	nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]	0.912575877	0.00116161	0.007535995
ENSMMUG00000052442		-0.9108235	0.00037149	0.002956632
ENSMMUG00000043504		0.908196509	0.00023168	0.002005139
ENSMMUG00000052889	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.907432212	0.008174679	0.035677825
ENSMMUG00000009688	IST1 factor associated with ESCRT-III [Source:VGNC Symbol;Acc:VGNC:73675]	0.907167319	0.007511514	0.033243863
ENSMMUG00000009540	calmodulin regulated spectrin associated protein family member 3 [Source:VGNC Symbol;Acc:VGNC:70669]	0.906953317	7.22E-08	1.76E-06
ENSMMUG00000011593	regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]	0.906867077	0.000572652	0.004249119
ENSMMUG00000056257		0.906748533	0.006077135	0.028024557
ENSMMUG00000021112	epithelial splicing regulatory protein 1 [Source:VGNC Symbol;Acc:VGNC:72358]	0.906661087	0.001342106	0.008481826
ENSMMUG00000001640	SIX homeobox 4 [Source:NCBI gene;Acc:703798]	0.906229371	0.008948776	0.038275192
ENSMMUG00000054107		0.904945418	0.005982253	0.027722364
ENSMMUG00000050923		0.903229986	0.004635388	0.022726837
ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	0.901747392	0.000109118	0.00105728
ENSMMUG00000052496		0.901497823	7.77E-06	0.000107764
ENSMMUG00000008733	ubiquitin protein ligase E3C [Source:VGNC Symbol;Acc:VGNC:79049]	0.901181694	0.003829995	0.019753671
ENSMMUG00000014343	lipase family member J [Source:VGNC Symbol;Acc:VGNC:74333]	0.899964195	0.01017188	0.042475047
ENSMMUG00000058740		0.894885265	0.000161839	0.001486334
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]	0.894299724	0.002468465	0.013801278
ENSMMUG00000007246	myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]	0.892155297	0.000822957	0.00573273
ENSMMUG00000059663		0.890543105	0.002438187	0.01364591
ENSMMUG00000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]	0.889075801	9.63E-05	0.000951915
ENSMMUG00000054734		0.888669567	0.000405883	0.003164617
ENSMMUG00000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]	0.887495989	7.77E-07	1.41E-05

ENSMMUG00000021372	EMI domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72063]	0.886796665	0.004068934	0.020648117
ENSMMUG00000017819	putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]	0.886440399	0.003107544	0.016555136
ENSMMUG00000011189	tousled like kinase 1 [Source:VGNC Symbol;Acc:VGNC:78367]	0.886115838	0.00428065	0.021458794
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	0.885490003	8.88E-07	1.59E-05
ENSMMUG00000010689	fermitin family member 2 [Source:VGNC Symbol;Acc:VGNC:82144]	-0.88104403	0.000377478	0.002989865
ENSMMUG00000018279	adaptor related protein complex 5 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69868]	0.879628517	1.73E-05	0.000216683
ENSMMUG00000063312		0.878755013	0.007749368	0.034107474
ENSMMUG00000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	0.878504351	1.48E-05	0.00018903
ENSMMUG00000023117	neurotrophic receptor tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:75541]	0.877848817	4.09E-05	0.000452236
ENSMMUG00000013376	POU class 2 homeobox 2 [Source:NCBI gene;Acc:706835]	0.876820914	0.00137672	0.008645833
ENSMMUG00000060051	olfactory receptor 6N1-like [Source:NCBI gene;Acc:719970]	0.876620491	0.004272921	0.021435771
ENSMMUG00000010878	adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]	0.875613326	2.11E-06	3.40E-05
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	-0.87438248	0.001732784	0.010401914
ENSMMUG00000047974	aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]	0.873308614	0.00038807	0.003053567
ENSMMUG00000013718	translocation associated membrane protein 2 [Source:VGNC Symbol;Acc:VGNC:83515]	-0.86995813	6.43E-05	0.000673316
ENSMMUG00000004173	phosphofructokinase, liver type [Source:VGNC Symbol;Acc:VGNC:81737]	0.869206041	0.001672588	0.010151416
ENSMMUG00000040854	aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]	0.866561168	0.006039274	0.027916326
ENSMMUG00000008539	uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]	0.865438803	0.001311234	0.008343966
ENSMMUG00000023242	transmembrane protein 128 [Source:VGNC Symbol;Acc:VGNC:82257]	0.864154115	0.005283393	0.025128641
ENSMMUG00000013188	serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]	0.863746227	9.67E-06	0.000131159
ENSMMUG00000016893	solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]	0.863293769	0.000494212	0.003741269
ENSMMUG00000008917	S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]	0.863199146	0.000852574	0.005895166
ENSMMUG000000053789		0.861982045	0.002023236	0.011773699
ENSMMUG00000008672	ring finger protein 126 [Source:VGNC Symbol;Acc:VGNC:76791]	0.859994435	0.003789127	0.01956817
ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]	0.859123458	0.00684349	0.030857542
ENSMMUG000000052377		0.858805497	0.004102292	0.020764605
ENSMMUG00000002244	early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]	0.857987578	0.000463146	0.003539652
ENSMMUG00000000681	calmin [Source:VGNC Symbol;Acc:VGNC:71232]	0.857642148	1.01E-06	1.77E-05
ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]	0.856285909	0.000218729	0.00191065

ENSMMUG00000012396	zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]	0.855859557	0.004653849	0.022773787
ENSMMUG00000008313	zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]	0.854889238	0.000243096	0.002083977
ENSMMUG00000052651	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.854288355	0.004780129	0.023252161
ENSMMUG00000022548	phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:VGNC Symbol;Acc:VGNC:75992]	0.853703865	0.010916283	0.044925567
ENSMMUG00000065091	myelin protein zero like 2 [Source:NCBI gene;Acc:699330]	-0.85352522	1.06E-05	0.00014217
ENSMMUG00000021496	potassium sodium-activated channel subfamily T member 1 [Source:VGNC Symbol;Acc:VGNC:73856]	0.852722218	0.000294708	0.002435764
ENSMMUG00000053389		0.851743837	0.000211369	0.001853118
ENSMMUG00000051843		0.849877987	0.002809119	0.015270391
ENSMMUG00000003288	glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]	0.849340031	0.007185028	0.032054318
ENSMMUG00000004648	KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]	0.848687004	0.000882575	0.006064095
ENSMMUG00000020150	xin actin binding repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:78952]	0.848113605	1.56E-05	0.000198724
ENSMMUG00000010978	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]	0.847270402	0.00040361	0.003151001
ENSMMUG00000005048	MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]	0.846891619	0.000713365	0.005091333
ENSMMUG00000064089		0.845392411	0.002181278	0.012490552
ENSMMUG00000058044		0.844584554	0.000532964	0.004006769
ENSMMUG00000017529	arrestin beta 1 [Source:VGNC Symbol;Acc:VGNC:70021]	0.842490539	0.005386181	0.025516181
ENSMMUG00000015987	Ras and Rab interactor 1 [Source:VGNC Symbol;Acc:VGNC:76769]	0.841685645	0.005808469	0.027088092
ENSMMUG00000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.840768983	0.000556131	0.004149671
ENSMMUG00000043809	caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]	0.838965923	0.002748814	0.015031872
ENSMMUG00000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	0.836819083	0.008165898	0.035652496
ENSMMUG00000006163	malate dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:74690]	0.836789482	0.004415929	0.02196126
ENSMMUG00000020435	amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]	-0.83571684	0.008857478	0.038020485
ENSMMUG00000007509	myosin VA [Source:VGNC Symbol;Acc:VGNC:75116]	0.835584245	0.001926981	0.011357052
ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]	0.830512794	0.002174105	0.012463759
ENSMMUG00000008486	endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]	0.827629278	0.001508804	0.009347871
ENSMMUG00000021914	spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]	0.820256866	0.004034789	0.020544489
ENSMMUG00000049574	antizyme inhibitor 2-like [Source:NCBI gene;Acc:705256]	0.819686769	3.23E-05	0.000371128
ENSMMUG00000017368	olfactory receptor 2G6 [Source:NCBI gene;Acc:694380]	0.818290384	0.001887579	0.011163282
ENSMMUG00000002003	upstream transcription factor 1 [Source:NCBI gene;Acc:719835]	0.817702524	0.001754196	0.010503358

ENSMMUG0000009539	XPA binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78943]	0.816525934	0.000281356	0.002350554
ENSMMUG00000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]	0.816328366	0.000480497	0.003648972
ENSMMUG00000058786	ligand of numb-protein X 2 [Source:NCBI gene;Acc:710660]	0.816293528	0.005625414	0.026419594
ENSMMUG00000063979		0.815211231	2.23E-06	3.58E-05
ENSMMUG00000011809	platelet and endothelial cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:75938]	0.812053754	0.002473686	0.013824013
ENSMMUG00000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]	0.810669203	0.000450069	0.003450724
ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]	0.809492422	0.00540777	0.025557796
ENSMMUG00000020784	centrosomal protein 126 [Source:NCBI gene;Acc:701911]	0.809332243	0.000170181	0.001549395
ENSMMUG00000060600		0.808489512	0.012248499	0.049043138
ENSMMUG00000049885		0.807943018	0.003963117	0.020317758
ENSMMUG00000002933	nuclear receptor subfamily 1 group D member 1 [Source:VGNC Symbol;Acc:VGNC:75502]	0.807157773	0.00737738	0.032759179
ENSMMUG00000003594	ubiquitin specific peptidase 13 [Source:VGNC Symbol;Acc:VGNC:78735]	0.807139817	0.002985976	0.015994622
ENSMMUG00000002310	zinc finger protein 577 [Source:VGNC Symbol;Acc:VGNC:79733]	0.806517851	2.22E-05	0.000269104
ENSMMUG00000013031	bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]	0.803634337	0.000797769	0.00559045
ENSMMUG00000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	0.802317598	0.004086869	0.020704723
ENSMMUG00000021499	sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]	0.802163028	0.011929417	0.04802242
ENSMMUG00000001267	general transcription factor IIIC subunit 5 [Source:VGNC Symbol;Acc:VGNC:73319]	0.800484139	0.011261214	0.045919067
ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]	0.798717852	8.69E-05	0.000880111
ENSMMUG00000060221	growth differentiation factor 9 [Source:NCBI gene;Acc:712792]	-0.79751112	0.003727929	0.019318769
ENSMMUG00000014438	piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]	0.796114441	0.000865819	0.005969515
ENSMMUG00000020436	potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]	0.795039952	0.000543432	0.004072677
ENSMMUG00000021228	gem nuclear organelle associated protein 5 [Source:VGNC Symbol;Acc:VGNC:72751]	0.794568425	0.002096585	0.012135668
ENSMMUG00000006713	cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]	0.793077937	0.001034075	0.006880046
ENSMMUG00000050318	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 6 [Source:NCBI gene;Acc:697946]	0.792442898	0.004093875	0.02073076
ENSMMUG00000064337	nectin cell adhesion molecule 4 [Source:NCBI gene;Acc:719843]	0.790865173	0.003239228	0.017149862
ENSMMUG00000008423	septin 4 [Source:NCBI gene;Acc:714724]	0.790661727	0.000115437	0.001105548
ENSMMUG00000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]	0.789476715	0.000896513	0.00613873
ENSMMUG00000000353	putative methyltransferase-like protein 21E pseudogene [Source:NCBI gene;Acc:707949]	0.786950778	0.011877809	0.047895167
ENSMMUG00000020004	Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]	0.786550864	0.009131559	0.038917991

ENSMMUG00000061186		-0.78651604	0.002715179	0.014909207
ENSMMUG00000055417		-		
ENSMMUG0000006705	FRY like transcription coactivator [Source:VGNC Symbol;Acc:VGNC:72803]	0.784664695	0.000207834	0.001831513
ENSMMUG0000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	-		
ENSMMUG00000055590		0.784235664	0.003229112	0.017111437
ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]	-		
ENSMMUG0000008781	BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]	0.782500265	0.002291261	0.012974061
ENSMMUG00000063721		-		
ENSMMUG0000008396	methyalmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]	0.780578928	0.00021778	0.001903744
ENSMMUG00000020539	coiled-coil domain containing 9B [Source:VGNC Symbol;Acc:VGNC:70920]	-		
ENSMMUG0000003230	F-box and leucine rich repeat protein 19 [Source:VGNC Symbol;Acc:VGNC:81406]	0.779253439	0.002207929	0.012597501
ENSMMUG00000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]	-		
ENSMMUG00000010312	shroom family member 1 [Source:VGNC Symbol;Acc:VGNC:77299]	0.778810188	0.000425943	0.003295281
ENSMMUG00000055233	PRAME family member 17-like [Source:NCBI gene;Acc:100427847]	-		
ENSMMUG00000017351	stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]	0.778252044	0.000141253	0.001319536
ENSMMUG00000023811	boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]	-		
ENSMMUG00000023398	collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]	0.777203697	0.00024644	0.002105107
ENSMMUG00000062362	keratin 33A [Source:NCBI gene;Acc:705800]	-		
ENSMMUG00000040485	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.777003459	0.012406184	0.049561487
ENSMMUG00000056711	ribonuclease inhibitor-like [Source:NCBI gene;Acc:114672186]	-		
ENSMMUG00000057655		0.776511547	0.011064476	0.045332934
ENSMMUG00000023401	adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]	-		
ENSMMUG0000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]	0.775228738	0.003337664	0.017585511
ENSMMUG0000006268	junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]	-		
ENSMMUG00000023810	methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]	0.775083895	0.002002876	0.011700706
ENSMMUG00000023116	LIM domain binding 2 [Source:VGNC Symbol;Acc:VGNC:74246]	-		
ENSMMUG00000012036	RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]	0.774619162	0.004026646	0.020529208
ENSMMUG0000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	-		
ENSMMUG0000003897	solute carrier family 9 member A7 [Source:NCBI gene;Acc:710906]	0.774302916	0.003384905	0.017787459
		-		
		0.773748007	0.012422468	0.049573966
		-		
		0.772660735	0.000969482	0.006537456
		-0.77175974	0.006551322	0.029776873
		-		
		0.771650777	0.004086771	0.020704723
		-		
		0.771024124	3.80E-06	5.76E-05
		-		
		0.769192289	0.003450763	0.018109702
		-		
		0.768952092	0.012261079	0.049060703
		-		
		0.768670009	0.000437249	0.003367522
		-0.76775672	7.71E-05	0.000788495
		-		
		0.767087762	0.004162309	0.020970891
		-		
		0.766891996	0.004028999	0.020532464
		-		
		0.766324473	0.000335959	0.002725912
		-		
		0.765538519	4.41E-06	6.54E-05
		-		
		0.765322108	0.000827174	0.005749413

ENSMMUG0000003850	collagen type XI alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71290]	-	0.764274224	0.001576879	0.009674539
ENSMMUG00000050541		-	-0.76415574	0.002121891	0.012239351
ENSMMUG00000021808	cryptochrome circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:71499]	-	-0.76111239	0.000252259	0.002145631
ENSMMUG00000049484		-	0.759046917	0.000602938	0.004438099
ENSMMUG0000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]	-	0.755888428	0.000203059	0.00179654
ENSMMUG00000065322	ATP synthase peripheral stalk-membrane subunit b [Source:NCBI gene;Acc:704072]	-	0.752976746	0.000289375	0.002403296
ENSMMUG00000031497		-	0.752461525	0.009747024	0.041109385
ENSMMUG00000064353	fatty acid binding protein 3 [Source:NCBI gene;Acc:717237]	-	0.747893759	0.001703461	0.010267173
ENSMMUG00000010351	KN motif and ankyrin repeat domains 4 [Source:VGNC Symbol;Acc:VGNC:73916]	-	0.746441883	0.012141653	0.048713044
ENSMMUG00000060822		-	0.745592735	2.02E-05	0.00024802
ENSMMUG00000009922	mitochondrial calcium uniporter regulator 1 [Source:VGNC Symbol;Acc:VGNC:81471]	-	0.744836493	0.001771228	0.010584945
ENSMMUG00000062635		-	0.744445414	0.002506952	0.013964303
ENSMMUG00000001768	zinc finger protein 616 [Source:NCBI gene;Acc:719902]	-	0.741742318	0.004156284	0.020967002
ENSMMUG00000001531	leucine rich repeats and immunoglobulin like domains 1 [Source:VGNC Symbol;Acc:VGNC:84156]	-	0.739255369	6.47E-05	0.000675998
ENSMMUG00000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]	-	0.735828947	0.004985544	0.02404709
ENSMMUG00000016475	M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]	-	0.735129803	0.00358415	0.018719485
ENSMMUG00000049295	GTPase, IMAP family member 5 [Source:NCBI gene;Acc:713835]	-	0.734805102	0.001144897	0.00744774
ENSMMUG00000002879	GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]	-	0.734176306	0.000114746	0.001102889
ENSMMUG00000015123	codanin 1 [Source:VGNC Symbol;Acc:VGNC:70788]	-	0.733022857	0.006419825	0.029300238
ENSMMUG00000008687	B cell linker [Source:VGNC Symbol;Acc:VGNC:70306]	-	0.732324798	2.38E-05	0.000286501
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	-	0.732261428	3.01E-06	4.70E-05
ENSMMUG00000021426	solute carrier family 41 member 1 [Source:VGNC Symbol;Acc:VGNC:77515]	-	0.731064465	0.006747542	0.030459314
ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	-	0.730737689	0.009862171	0.041456425
ENSMMUG00000020510	kelch like family member 41 [Source:VGNC Symbol;Acc:VGNC:74062]	-	0.730308135	0.004870637	0.023596713
ENSMMUG00000064983		-	0.730035245	0.003251021	0.017197095
ENSMMUG00000002269	serine carboxypeptidase 1 [Source:VGNC Symbol;Acc:VGNC:82232]	-	0.729048425	0.004616713	0.022659735
ENSMMUG00000001649	RUNX family transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:76946]	-	0.728802191	0.00580111	0.027074861
ENSMMUG00000023396	hypocretin receptor 1 [Source:VGNC Symbol;Acc:VGNC:73356]	-	0.727280535	0.006589297	0.029870468
ENSMMUG00000005463	bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]	-	0.726701546	0.003757081	0.019453005

ENSMMUG00000011800	Myb like, SWIRM and MPN domains 1 [Source:VGNC Symbol;Acc:VGNC:75039]	0.725289565	2.32E-05	0.000279634
ENSMMUG00000022293	FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]	0.720574544	0.000243454	0.002085558
ENSMMUG00000018168	alkaline ceramidase 3 [Source:VGNC Symbol;Acc:VGNC:69415]	0.718277051	0.004518196	0.022331785
ENSMMUG00000022732	SRSF protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:81764]	0.715931837	0.012191287	0.04887943
ENSMMUG00000054417		0.714828874	0.000515905	0.003900555
ENSMMUG00000054493		0.714554734	0.001638624	0.009997028
ENSMMUG00000001432	t-SNARE domain containing 1 [Source:NCBI gene;Acc:701269]	0.714003904	0.001263019	0.008072187
ENSMMUG00000055970		0.712630662	0.011234512	0.045825789
ENSMMUG00000016925	laminin subunit beta 3 [Source:VGNC Symbol;Acc:VGNC:74230]	0.712610933	0.003287619	0.017367677
ENSMMUG00000013183	F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]	0.711208485	0.003703411	0.019233325
ENSMMUG00000009126	solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]	0.710802533	0.00200973	0.011729304
ENSMMUG00000056765		0.710023003	0.001400005	0.008759906
ENSMMUG00000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]	0.709796793	0.002382354	0.013403626
ENSMMUG00000004603	zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]	0.709201699	0.00018602	0.001668745
ENSMMUG00000052090		0.707853936	0.000139132	0.001305836
ENSMMUG00000044652	sialic acid-binding Ig-like lectin 13 [Source:NCBI gene;Acc:719667]	0.707514279	0.011593083	0.047000259
ENSMMUG00000041976	zinc finger protein 780B [Source:NCBI gene;Acc:701034]	0.706960904	0.00568614	0.026652529
ENSMMUG00000056105	T-box transcription factor 10 [Source:NCBI gene;Acc:721689]	0.706883065	0.00437336	0.021787353
ENSMMUG00000014301	nectin cell adhesion molecule 2 [Source:VGNC Symbol;Acc:VGNC:75396]	0.706841444	0.00100601	0.006738241
ENSMMUG00000021216	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]	0.706336994	0.009001338	0.038486264
ENSMMUG00000001399	3-hydroxymethyl-3-methylglutaryl-CoA lyase like 1 [Source:VGNC Symbol;Acc:VGNC:73429]	0.706015833	0.006614985	0.029962581
ENSMMUG00000022490	cytochrome P450, family 3, subfamily A, polypeptide 43 [Source:NCBI gene;Acc:709770]	0.704733102	0.000269885	0.00227672
ENSMMUG00000023397	penta-EF-hand domain containing 1 [Source:NCBI gene;Acc:706038]	0.703959404	0.007626812	0.033642248
ENSMMUG00000049311	zinc finger protein 558 [Source:NCBI gene;Acc:712590]	0.703894848	0.00103757	0.006899464
ENSMMUG00000008392	huntingtin [Source:VGNC Symbol;Acc:VGNC:73468]	0.703638256	0.001120338	0.007339807
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	0.702625662	1.32E-05	0.000171665
ENSMMUG00000018901	FYVE, RhoGEF and PH domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72548]	0.701114038	0.006968049	0.031313078
ENSMMUG00000021620	ELKS/RAB6-interacting/CAST family member 2 [Source:VGNC Symbol;Acc:VGNC:72164]	0.698302442	9.05E-05	0.000907956

ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	0.696305424	0.000689916	0.004941648
ENSMMUG00000057700	acid sensing ion channel subunit family member 5 [Source:NCBI gene;Acc:699617]	0.696165286	0.000714224	0.005094431
ENSMMUG00000000547	zinc finger protein 566 [Source:VGNC Symbol;Acc:VGNC:81619]	0.695830583	0.003004517	0.016077789
ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]	0.689622129	0.002016671	0.011758349
ENSMMUG00000006327	tumor necrosis factor (ligand) superfamily, member 12 [Source:NCBI gene;Acc:100551506]	0.689242441	5.13E-06	7.46E-05
ENSMMUG00000013039	solute carrier family 19 member 2 [Source:VGNC Symbol;Acc:VGNC:81571]	0.689159676	0.001089017	0.007169908
ENSMMUG00000029263	polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]	0.684543092	0.004578486	0.022546032
ENSMMUG00000031123	secretoglobin family 1A member 1 [Source:VGNC Symbol;Acc:VGNC:77004]	0.683109732	0.007954889	0.034883834
ENSMMUG00000001978	adenosine monophosphate deaminase 1 [Source:VGNC Symbol;Acc:VGNC:69806]	0.677999559	0.005099789	0.024469181
ENSMMUG00000023136	zinc finger protein 613 [Source:VGNC Symbol;Acc:VGNC:79548]	0.676844079	0.0014861	0.009231085
ENSMMUG00000048882	KIAA0408 ortholog [Source:NCBI gene;Acc:100429459]	0.676285975	0.000345641	0.002785599
ENSMMUG00000012020	nuclear receptor coactivator 3 [Source:VGNC Symbol;Acc:VGNC:75147]	0.673241668	0.000807855	0.005651207
ENSMMUG00000012601	RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]	-0.67219032	0.004031733	0.020537659
ENSMMUG00000002781	peroxidasin like [Source:VGNC Symbol;Acc:VGNC:84107]	-0.67000292	0.003195465	0.016978213
ENSMMUG00000002010	death effector domain containing [Source:VGNC Symbol;Acc:VGNC:71768]	0.669385859	0.009978373	0.041827441
ENSMMUG00000039195	ATCAY kinesin light chain interacting caytaxin [Source:NCBI gene;Acc:721783]	0.666980948	0.007566003	0.033435591
ENSMMUG00000052418		0.666319372	0.003691575	0.019180172
ENSMMUG00000009394	sestrin 3 [Source:VGNC Symbol;Acc:VGNC:77291]	-0.66408161	0.002095519	0.012135364
ENSMMUG00000011335	Fc receptor like 6 [Source:VGNC Symbol;Acc:VGNC:72602]	0.663322799	0.000324427	0.002645674
ENSMMUG00000049326	GIPC PDZ domain containing family member 2 [Source:NCBI gene;Acc:707432]	0.662112495	0.00539781	0.025540961
ENSMMUG00000059327	NUS1 dehydrololichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]	0.661587042	0.002429462	0.013634132
ENSMMUG00000010939	rhopilin Rho GTPase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:76779]	0.660947143	0.007553614	0.033393162
ENSMMUG00000023698	golgi SNAP receptor complex member 1 [Source:VGNC Symbol;Acc:VGNC:73110]	0.660077413	0.002053603	0.011915671
ENSMMUG00000012761	sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]	0.659893049	0.002694252	0.014814675
ENSMMUG00000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]	0.657917816	7.04E-05	0.000729027
ENSMMUG00000000662	guanylate-binding protein 1 [Source:NCBI gene;Acc:694538]	0.650959114	0.010619794	0.044038313
ENSMMUG00000013716	EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72052]	0.650791998	0.009820216	0.041352639
ENSMMUG00000009461	SMAD specific E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77727]	0.650635524	0.00114587	0.007450022
ENSMMUG00000012091	thioredoxin reductase 1 [Source:VGNC Symbol;Acc:VGNC:78679]	0.647779738	0.010876417	0.044792289

ENSMMUG00000012786	complement C1s [Source:VGNC Symbol;Acc:VGNC:70297]	0.647750726	4.59E-05	0.000499448
ENSMMUG00000022442	single stranded DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:77886]	-0.64758876	0.005016087	0.02413526
ENSMMUG00000017100	solute carrier family 4 member 1 (Diego blood group) [Source:NCBI gene;Acc:100427618]	0.646347481	0.001754945	0.010503358
ENSMMUG00000023525	cadherin 5 [Source:VGNC Symbol;Acc:VGNC:70973]	-0.64267751	0.005232243	0.024954737
ENSMMUG00000016522	neurolysin [Source:VGNC Symbol;Acc:VGNC:75183]	0.639881984	0.000717855	0.005111198
ENSMMUG00000040100	Fos proto-oncogene, AP-1 transcription factor subunit [Source:VGNC Symbol;Acc:VGNC:84340]	0.639207488	0.002799053	0.015233333
ENSMMUG00000023027	endo-beta-N-acetylglucosaminidase [Source:VGNC Symbol;Acc:VGNC:72099]	0.636542257	0.006108492	0.028158313
ENSMMUG00000010036	tau tubulin kinase 2 [Source:VGNC Symbol;Acc:VGNC:81598]	0.636190309	0.006924109	0.031150689
ENSMMUG00000050825	potassium voltage-gated channel subfamily D member 3 [Source:NCBI gene;Acc:641437]	0.634289907	0.004039245	0.0205497
ENSMMUG00000003864	VPS52 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:78551]	0.632118407	0.007640405	0.033689796
ENSMMUG00000010544	mucin 5B, oligomeric mucus/gel-forming [Source:VGNC Symbol;Acc:VGNC:75081]	0.629767501	0.00117966	0.007620069
ENSMMUG00000022044	scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]	0.628282097	0.008896916	0.038107822
ENSMMUG00000008323	C-terminal binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71539]	0.627105042	0.002626772	0.014505321
ENSMMUG00000004624	synaptojanin 1 [Source:VGNC Symbol;Acc:VGNC:78071]	-0.62568514	0.008378175	0.036367169
ENSMMUG000000054112		0.622368299	0.002973147	0.015952694
ENSMMUG000000053262		0.620816733	0.011810535	0.047688122
ENSMMUG00000007421	zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]	0.617649214	0.00866927	0.037319616
ENSMMUG00000000289	calcium voltage-gated channel auxiliary subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70509]	0.614854675	0.011045814	0.045302967
ENSMMUG000000056693		0.612837033	0.000209904	0.001845678
ENSMMUG00000018053	zinc finger and BTB domain containing 21 [Source:VGNC Symbol;Acc:VGNC:78892]	0.611709475	0.007701404	0.0339213
ENSMMUG00000023226	RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]	0.611580902	0.006409356	0.02927477
ENSMMUG00000000978	cramped chromatin regulator homolog 1 [Source:NCBI gene;Acc:722473]	0.605955973	0.001571023	0.0096485
ENSMMUG00000003462	ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]	0.603624965	0.002286311	0.012959013
ENSMMUG000000056280	G protein subunit alpha i2 [Source:NCBI gene;Acc:703780]	0.593605017	0.011419311	0.046414127
ENSMMUG00000017677	chromosome 7 C14orf28 homolog [Source:VGNC Symbol;Acc:VGNC:70581]	0.593249117	0.008341857	0.036222654
ENSMMUG000000063474		0.592696772	0.000980155	0.00659087
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]	0.588099334	0.002982323	0.0159876
ENSMMUG00000019760	karyopherin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:74203]	0.585966436	0.003713792	0.019262178
ENSMMUG00000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	0.583402245	0.005388844	0.025518702

ENSMMUG0000005942	leucine carboxyl methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:74067]	-	0.577689814	0.002192227	0.012534479
ENSMMUG0000002185	protein activator of interferon induced protein kinase EIF2AK2 [Source:VGNC Symbol;Acc:VGNC:76421]	-	0.576382329	0.010482065	0.043603061
ENSMMUG0000007576	EYA transcriptional coactivator and phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:72453]	-	0.572882801	0.007266467	0.032362668
ENSMMUG00000054625		-	0.572785403	0.009100235	0.038852851
ENSMMUG00000018186	sosondowah ankyrin repeat domain family member B [Source:VGNC Symbol;Acc:VGNC:78033]	-	0.571862677	0.000250135	0.002130592
ENSMMUG0000002761	activity dependent neuroprotector homeobox [Source:VGNC Symbol;Acc:VGNC:69614]	-	0.568764983	0.010221053	0.042650639
ENSMMUG0000003456	glypican 4 [Source:VGNC Symbol;Acc:VGNC:73118]	-	0.567669669	0.001168814	0.007574523
ENSMMUG00000022715	adenosylhomocysteinase like 1 [Source:VGNC Symbol;Acc:VGNC:81350]	-	0.566376742	0.011160272	0.045616182
ENSMMUG00000054737		-	0.566004281	0.00437348	0.021787353
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	-	0.565787306	0.001156684	0.007508104
ENSMMUG00000004629	nucleolar protein 8 [Source:VGNC Symbol;Acc:VGNC:75237]	-	0.565605197	0.005111272	0.024504641
ENSMMUG00000021567	neurexophilin and PC-esterase domain family member 3 [Source:VGNC Symbol;Acc:VGNC:75476]	-	0.564274479	0.001452757	0.009042732
ENSMMUG00000065127	insulin like 6 [Source:NCBI gene;Acc:693735]	-	0.559302645	0.002627091	0.014505321
ENSMMUG00000010321	C2 domain containing 3 centriole elongation regulator [Source:VGNC Symbol;Acc:VGNC:70375]	-	0.555769724	0.00842285	0.036508161
ENSMMUG00000065066	V-set and immunoglobulin domain containing 10 like 2 [Source:NCBI gene;Acc:717387]	-	0.554728181	0.005756713	0.026920109
ENSMMUG00000030786	transient receptor potential cation channel subfamily C member 4 [Source:NCBI gene;Acc:695636]	-	0.550957284	0.005374052	0.025478877
ENSMMUG00000007078	N-acylsphingosine amidohydrolase 2 [Source:NCBI gene;Acc:703913]	-	0.550905682	0.000824013	0.00573273
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]	-	-0.55050382	0.00160221	0.009799829
ENSMMUG00000065001		-	0.548233499	0.008678644	0.037346548
ENSMMUG00000030422	radial spoke head 10 homolog B [Source:NCBI gene;Acc:100424218]	-	0.546360209	0.01090854	0.044909136
ENSMMUG00000006861	dynein axonemal heavy chain 10 [Source:NCBI gene;Acc:710343]	-	0.546218237	0.005498762	0.02590605
ENSMMUG00000005613	signal transducer and activator of transcription 1 [Source:VGNC Symbol;Acc:VGNC:77904]	-	0.544857749	0.002157597	0.012387047
ENSMMUG00000022303	solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]	-	0.544694963	0.000199832	0.001773556
ENSMMUG00000001518	zinc finger protein 518A [Source:VGNC Symbol;Acc:VGNC:79767]	-	0.540131753	0.001351503	0.008523226
ENSMMUG00000003110	tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:78680]	-	0.538489282	0.007453349	0.033042487
ENSMMUG00000017052	StAR related lipid transfer domain containing 13 [Source:VGNC Symbol;Acc:VGNC:77962]	-	0.527359938	0.002734484	0.014980881
ENSMMUG00000030400	SH3 domain and tetratricopeptide repeats 1 [Source:NCBI gene;Acc:722649]	-	0.524909298	0.012304142	0.049216566
ENSMMUG00000009459	centrosomal protein 95 [Source:VGNC Symbol;Acc:VGNC:71095]	-	0.523952076	0.011825583	0.047732788
ENSMMUG00000018051	FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]	-	0.518831023	0.011371986	0.046269871

ENSMMUG00000004708	SPT6 homolog, histone chaperone and transcription elongation factor [Source:VGNC Symbol;Acc:VGNC:78057]	0.515041674	0.007454977	0.033042487
ENSMMUG00000007870	creatine kinase U-type, mitochondrial [Source:NCBI gene;Acc:114669858]	0.513960508	0.011960597	0.048131756
ENSMMUG00000008965	piwi like RNA-mediated gene silencing 4 [Source:VGNC Symbol;Acc:VGNC:81504]	0.510240334	0.006733706	0.030419789
ENSMMUG000000060440	leucine rich repeat LGI family member 2 [Source:NCBI gene;Acc:693308]	0.501300598	0.003208863	0.017034284
ENSMMUG000000063877	leucine-rich repeat-containing protein 37A2 [Source:NCBI gene;Acc:716147]	0.498191199	0.002437948	0.01364591
ENSMMUG00000009189	palmitoyl-protein thioesterase 1 [Source:VGNC Symbol;Acc:VGNC:76386]	0.486289288	0.003950026	0.020259318
ENSMMUG00000017685	hydroxysteroid 17-beta dehydrogenase 4 [Source:VGNC Symbol;Acc:VGNC:73530]	0.471821395	0.001174973	0.007597989
ENSMMUG00000021441	amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase [Source:VGNC Symbol;Acc:VGNC:69744]	0.470158357	0.002584029	0.014307135
ENSMMUG00000016740	defective in cullin neddylation 1 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:71684]	0.469921714	0.007501626	0.033212374
ENSMMUG000000061176		0.456536009	0.011135485	0.04554221
ENSMMUG00000019238	RNA binding protein with serine rich domain 1 [Source:NCBI gene;Acc:695816]	0.455871519	0.00550854	0.025941907
ENSMMUG00000004529	chromosome 14 C11orf80 homolog [Source:NCBI gene;Acc:721782]	0.447651283	0.007820886	0.034384338
ENSMMUG00000010304	cilia and flagella associated protein 298 [Source:NCBI gene;Acc:700721]	0.433623523	0.00355179	0.018587388
ENSMMUG000000049578	cilia and flagella associated protein 410 [Source:NCBI gene;Acc:722168]	0.400554549	0.012413081	0.049561487
ENSMMUG00000016005	DnaJ heat shock protein family (Hsp40) member C13 [Source:VGNC Symbol;Acc:VGNC:84191]	-0.38928885	0.001707408	0.0102805
ENSMMUG00000003464	midasin AAA ATPase 1 [Source:VGNC Symbol;Acc:VGNC:74530]	0.374127489	0.006123217	0.028204478
ENSMMUG00000011557	platelet derived growth factor receptor beta [Source:VGNC Symbol;Acc:VGNC:75929]	0.348600599	0.002400756	0.013492001
ENSMMUG000000042232	NBPF member 6 [Source:NCBI gene;Acc:698524]	0.349529152	0.005826219	0.027139166
ENSMMUG00000000901	alpha hemoglobin stabilizing protein [Source:VGNC Symbol;Acc:VGNC:69631]	0.391508716	0.011648011	0.047190996
ENSMMUG00000000307	RIO kinase 2 [Source:VGNC Symbol;Acc:VGNC:76774]	0.401332653	0.007003135	0.031422482
ENSMMUG000000049145	creatine kinase B [Source:NCBI gene;Acc:711167]	0.417082689	0.011628474	0.047127785
ENSMMUG000000005270	ryanodine receptor 3 [Source:NCBI gene;Acc:694996]	0.443280393	0.001725245	0.010367051
ENSMMUG000000045769	tubulin tyrosine ligase like 10 [Source:NCBI gene;Acc:702662]	0.44421735	0.009779349	0.041224034
ENSMMUG000000032217	transmembrane protein 50A [Source:VGNC Symbol;Acc:VGNC:79857]	0.447638536	0.010007148	0.041926434
ENSMMUG000000062747		0.451557122	0.003253931	0.017197297
ENSMMUG000000008931	MAU2 sister chromatid cohesion factor [Source:NCBI gene;Acc:720347]	0.451777204	0.003223125	0.01708727
ENSMMUG000000050742	src kinase associated phosphoprotein 1 [Source:NCBI gene;Acc:697043]	0.461823197	0.005913124	0.027469189
ENSMMUG000000002540	dehydrogenase/reductase 7 [Source:VGNC Symbol;Acc:VGNC:71690]	0.463244438	0.011693344	0.04731064
ENSMMUG000000007315	ciliary rootlet coiled-coil, rootletin [Source:NCBI gene;Acc:710793]	0.466544202	0.00575534	0.026920109
ENSMMUG000000005780	dynein cytoplasmic 1 heavy chain 1 [Source:VGNC Symbol;Acc:VGNC:71951]	0.466563237	0.005042159	0.024231497
ENSMMUG00000011459	3-phosphoinositide dependent protein kinase 1 [Source:NCBI gene;Acc:697523]	0.468845211	0.000446999	0.003429381
ENSMMUG00000022094	ATP binding cassette subfamily B member 10 [Source:NCBI gene;Acc:574117]	0.469465867	0.00346535	0.018170328
ENSMMUG000000005352	ubiquitin specific peptidase 36 [Source:VGNC Symbol;Acc:VGNC:79219]	0.479671843	0.011226772	0.045825433
ENSMMUG000000060764		0.481482846	0.003766749	0.0194778
ENSMMUG00000017949	ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]	0.482530979	0.004555364	0.022459878
ENSMMUG00000018139	dedicator of cytokinesis 10 [Source:VGNC Symbol;Acc:VGNC:71888]	0.483087344	0.000644577	0.004681295
ENSMMUG000000006330	poly(A) binding protein interacting protein 2B [Source:NCBI gene;Acc:711595]	0.487704489	0.011059389	0.045332934
ENSMMUG00000020970	zinc finger protein 213 [Source:VGNC Symbol;Acc:VGNC:78872]	0.490813718	0.008111541	0.035479846
ENSMMUG00000000186	protein phosphatase 2 regulatory subunit B'gamma [Source:NCBI gene;Acc:718894]	0.492978351	0.001681905	0.010179259

ENSMMUG00000061673		0.494459761	0.007259416	0.032343291
ENSMMUG00000020840	TBC1 domain family member 16 [Source:VGNC Symbol;Acc:VGNC:78228]	0.494550105	0.010762351	0.044490824
ENSMMUG00000030597	mitogen-activated protein kinase kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81465]	0.495567247	0.002436659	0.01364591
ENSMMUG00000049440	chromosome 16 C17orf113 homolog [Source:NCBI gene;Acc:106994045]	0.495910897	0.000681895	0.004892972
ENSMMUG00000055454		0.497838952	0.007005513	0.031422482
ENSMMUG00000022895	DnaJ heat shock protein family (Hsp40) member B5 [Source:NCBI gene;Acc:699081]	0.502517846	0.000204564	0.001804015
ENSMMUG00000008638	CDC42 binding protein kinase alpha [Source:VGNC Symbol;Acc:VGNC:70799]	0.502819116	0.006221192	0.028556918
ENSMMUG00000022404	apoptotic peptidase activating factor 1 [Source:VGNC Symbol;Acc:VGNC:69975]	0.50501497	0.000660005	0.004775964
ENSMMUG00000018909	fetuin B [Source:VGNC Symbol;Acc:VGNC:72638]	0.512029684	0.011590027	0.047000259
ENSMMUG00000013730	WD repeat domain 17 [Source:NCBI gene;Acc:700546]	0.512230428	0.000298755	0.002460722
ENSMMUG00000009938	myosin XVIIIa [Source:VGNC Symbol;Acc:VGNC:75058]	0.513850974	0.000272677	0.002293244
ENSMMUG00000013313	cytohesin 1 [Source:VGNC Symbol;Acc:VGNC:71828]	0.519275923	0.007310271	0.032521472
ENSMMUG00000002909	placental growth factor [Source:VGNC Symbol;Acc:VGNC:75964]	0.521710107	0.005596865	0.026295822
ENSMMUG00000010367	myosin heavy chain 11 [Source:VGNC Symbol;Acc:VGNC:75097]	0.523634739	0.005018301	0.024136214
ENSMMUG00000008926	lysosomal protein transmembrane 4 beta [Source:VGNC Symbol;Acc:VGNC:84010]	0.524179019	0.006673554	0.030182209
ENSMMUG00000001538	GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]	0.524828441	0.011722004	0.047378574
ENSMMUG00000011134	transcription factor Dp-2 [Source:VGNC Symbol;Acc:VGNC:78324]	0.528137375	0.004004335	0.020465248
ENSMMUG00000002381	lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]	0.528682512	0.008209825	0.0357845
ENSMMUG00000060780		0.528871705	0.011041007	0.045302967
ENSMMUG00000019136	taxilin beta [Source:VGNC Symbol;Acc:VGNC:79325]	0.529604086	0.001736334	0.010418002
ENSMMUG00000004847	xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]	0.533564135	0.00367084	0.019097298
ENSMMUG00000014641		0.536349941	0.000698854	0.004999685
ENSMMUG00000004144	adaptor related protein complex 1 subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:69959]	0.536978096	0.000675095	0.004861661
ENSMMUG00000012223	branched chain amino acid transaminase 1 [Source:VGNC Symbol;Acc:VGNC:70236]	0.537518451	0.007186527	0.032054318
ENSMMUG00000059196		0.540991166	0.001399826	0.008759906
ENSMMUG00000009430	transient receptor potential cation channel subfamily M member 1 [Source:VGNC Symbol;Acc:VGNC:79964]	0.542797947	0.002141891	0.012326424
ENSMMUG00000010633	PHD finger protein 20 [Source:VGNC Symbol;Acc:VGNC:75807]	0.543199002	0.001153535	0.007491724
ENSMMUG00000049451	Cbl proto-oncogene C [Source:NCBI gene;Acc:713112]	0.544969023	0.009113408	0.038868298
ENSMMUG00000009017	transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:78287]	0.545006225	0.0012869	0.008202187
ENSMMUG00000052557		0.546693678	0.001138421	0.007417697
ENSMMUG00000022136	laminin subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:74225]	0.547130358	0.001488988	0.009244228
ENSMMUG00000047621	transmembrane 4 L six family member 18 [Source:VGNC Symbol;Acc:VGNC:82713]	0.548094148	0.000103025	0.001004148
ENSMMUG00000015114	toll like receptor adaptor molecule 2 [Source:NCBI gene;Acc:100426353]	0.549937676	0.000943222	0.006389156
ENSMMUG00000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]	0.551182385	0.003313328	0.017472663
ENSMMUG00000062177		0.553257794	0.005983827	0.027722364
ENSMMUG00000006297	programmed cell death 7 [Source:NCBI gene;Acc:708758]	0.556201301	0.004133474	0.020871347
ENSMMUG00000006727	vitamin D receptor [Source:VGNC Symbol;Acc:VGNC:78764]	0.557553381	0.004861493	0.023575345
ENSMMUG00000019807	regulator of G protein signaling 14 [Source:VGNC Symbol;Acc:VGNC:76918]	0.565019455	0.001942768	0.011438834
ENSMMUG00000052626	progesterone and adiponectin receptor family member 8 [Source:NCBI gene;Acc:708418]	0.567431771	0.006159373	0.028360114
ENSMMUG00000006141	ceramide transporter 1 [Source:VGNC Symbol;Acc:VGNC:71298]	0.567634507	0.005900097	0.027429953
ENSMMUG00000005775	phospholipase A and acyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:76055]	0.569708397	0.000562563	0.004184632
ENSMMUG00000003894	zinc finger protein 385C [Source:NCBI gene;Acc:708928]	0.570032277	0.001602151	0.009799829
ENSMMUG00000014873	torsin 1A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79810]	0.573027845	0.010509023	0.043700019
ENSMMUG00000021012	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	0.576139579	0.001956173	0.011492917
ENSMMUG00000029971	beclin 1 [Source:VGNC Symbol;Acc:VGNC:70044]	0.57792843	0.011078458	0.045374698
ENSMMUG00000012117	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:VGNC Symbol;Acc:VGNC:73364]	0.578457582	2.83E-05	0.000330899
ENSMMUG00000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	0.578956084	0.008270122	0.035976381
ENSMMUG00000008130	ABR activator of RhoGEF and GTPase [Source:VGNC Symbol;Acc:VGNC:69589]	0.581595315	0.00154677	0.00953868
ENSMMUG00000055168		0.581941817	0.004573438	0.02253044
ENSMMUG00000011579	TAFI chemokine like family member 2 [Source:VGNC Symbol;Acc:VGNC:78189]	0.582316475	0.000959948	0.006480462
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	0.583310909	0.012359169	0.049403675

ENSMMUG00000019632	ribosomal L1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77096]	0.585046551	0.001207517	0.007783219
ENSMMUG00000000300	integrin subunit alpha 4 [Source:VGNC Symbol;Acc:VGNC:73778]	0.585661334	0.006900107	0.03105437
ENSMMUG00000014210	metadherin [Source:VGNC Symbol;Acc:VGNC:74859]	0.587711507	0.006272832	0.028716911
ENSMMUG00000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]	0.588224774	0.005539703	0.026068169
ENSMMUG00000015449	phospholipase A2 group IVF [Source:VGNC Symbol;Acc:VGNC:76123]	0.589982972	0.005586399	0.026277579
ENSMMUG00000021866	deoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:71946]	0.598954029	0.006039679	0.027916326
ENSMMUG00000004522	DNA primase subunit 1 [Source:NCBI gene;Acc:710253]	0.60016297	0.000242706	0.002082129
ENSMMUG00000009173	serine/threonine kinase 24 [Source:VGNC Symbol;Acc:VGNC:81583]	0.602265829	0.004614665	0.022659735
ENSMMUG00000003161	microtubule associated serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:74533]	0.604982722	0.009962626	0.041790466
ENSMMUG00000006139	3-hydroxy-3-methylglutaryl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:73484]	0.605609648	0.005140988	0.024607702
ENSMMUG00000013442	minichromosome maintenance complex component 7 [Source:VGNC Symbol;Acc:VGNC:74686]	0.607083121	0.009939659	0.041752842
ENSMMUG00000017946	rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]	0.60710973	0.005313154	0.02525013
ENSMMUG00000059292		0.60767705	0.000519467	0.003920058
ENSMMUG00000005323	phosphoribosyl pyrophosphate synthetase associated protein 2 [Source:VGNC Symbol;Acc:VGNC:76430]	0.608749162	0.001682094	0.010179259
ENSMMUG00000017505	tetratricopeptide repeat domain 3 [Source:VGNC Symbol;Acc:VGNC:81785]	0.61135514	0.004582423	0.022549634
ENSMMUG00000009577	atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]	0.613716867	0.000577489	0.004279708
ENSMMUG00000021434	ATP binding cassette subfamily A member 2 [Source:VGNC Symbol;Acc:VGNC:69557]	0.616537663	0.009539901	0.040342464
ENSMMUG00000054834		0.619255169	0.000229539	0.001989121
ENSMMUG00000064750		0.619520874	0.008762015	0.037664712
ENSMMUG00000055016	keratin, type II cytoskeletal 6A [Source:NCBI gene;Acc:719283]	0.620009921	4.31E-06	6.42E-05
ENSMMUG00000052713	leucine rich repeat containing 14B [Source:NCBI gene;Acc:723071]	0.621522388	0.008393816	0.036421863
ENSMMUG00000010834	REL proto-oncogene, NF-kB subunit [Source:VGNC Symbol;Acc:VGNC:76892]	0.623278658	0.000274937	0.002307393
ENSMMUG00000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]	0.623343515	0.001365665	0.008585411
ENSMMUG00000003067	endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]	0.625671515	0.002491629	0.013893309
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	0.628463077	0.002372453	0.013358012
ENSMMUG00000000194	solute carrier family 27 member 1 [Source:VGNC Symbol;Acc:VGNC:77438]	0.629826982	0.004322119	0.021617219
ENSMMUG00000018879	exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]	0.63055145	0.004688569	0.022871813
ENSMMUG00000006403	potassium voltage-gated channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:73971]	0.631786114	0.005267904	0.025073972
ENSMMUG00000052680		0.634415464	0.00645501	0.029427181
ENSMMUG00000005548	N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]	0.635221988	0.000306054	0.0025122
ENSMMUG00000004913	mitotic deacetylase associated SANT domain protein [Source:VGNC Symbol;Acc:VGNC:72073]	0.635919387	0.001965605	0.011533603
ENSMMUG00000038349	crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]	0.640078155	0.00025132	0.002139163
ENSMMUG00000016114	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:VGNC Symbol;Acc:VGNC:71279]	0.643508991	0.000972449	0.006553773
ENSMMUG00000017806	CD109 molecule [Source:VGNC Symbol;Acc:VGNC:70834]	0.644000788	0.00136286	0.008572272
ENSMMUG00000017312	zinc finger RANBP2-type containing 2 [Source:NCBI gene;Acc:703513]	0.647574483	0.002056372	0.011925963
ENSMMUG00000000695	transmembrane protein 245 [Source:VGNC Symbol;Acc:VGNC:78933]	0.647796342	0.005888955	0.027399426
ENSMMUG00000008104	proteasome activator subunit 4 [Source:VGNC Symbol;Acc:VGNC:76295]	0.648763791	0.000112436	0.001084164
ENSMMUG00000012667	annexin A1 [Source:VGNC Symbol;Acc:VGNC:69944]	0.651337207	0.000140115	0.001311973
ENSMMUG00000008771	lysine demethylase 2A [Source:VGNC Symbol;Acc:VGNC:73824]	0.652169498	0.005220495	0.024926891
ENSMMUG00000013048	junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]	0.653080123	0.00259195	0.014344361
ENSMMUG00000015306	calponin 2 [Source:NCBI gene;Acc:721164]	0.653583494	0.006541821	0.029754975
ENSMMUG00000005224	tetratricopeptide repeat domain 23 [Source:VGNC Symbol;Acc:VGNC:79534]	0.654485358	0.000600885	0.004428433
ENSMMUG00000061917		0.655112917	0.005878524	0.027361525
ENSMMUG00000050119		0.655956457	0.005412771	0.025564365
ENSMMUG00000014313	zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]	0.65956823	0.002552141	0.014163317
ENSMMUG00000050418	superoxide dismutase 2 [Source:NCBI gene;Acc:574097]	0.659937163	0.001038879	0.006904336
ENSMMUG00000010138	HECT and RLD domain containing E3 ubiquitin protein ligase 3 [Source:VGNC Symbol;Acc:VGNC:73365]	0.663061164	0.004932954	0.023840622
ENSMMUG00000055443	G protein-coupled receptor 88 [Source:NCBI gene;Acc:716520]	0.664973091	0.001275895	0.008145051
ENSMMUG00000049375		0.666271017	0.001389871	0.008705754
ENSMMUG00000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	0.666906223	0.000244046	0.002087482
ENSMMUG00000023025	synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]	0.667494087	0.000346211	0.00278644

ENSMMUG00000014407	magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]	0.667624137	0.007105417	0.03175167
ENSMMUG00000016715	p53-induced death domain protein 1 [Source:VGNC Symbol;Acc:VGNC:81498]	0.667654913	0.000536184	0.004025918
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	0.667857885	0.000177752	0.001601773
ENSMMUG00000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	0.668028872	0.00133658	0.008464772
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]	0.670734396	0.001023576	0.006820916
ENSMMUG00000023318	transformation/transcription domain associated protein [Source:VGNC Symbol;Acc:VGNC:78657]	0.671350935	5.41E-05	0.000576038
ENSMMUG00000054175		0.672393268	3.01E-05	0.000348818
ENSMMUG00000005220	synemin [Source:VGNC Symbol;Acc:VGNC:78201]	0.675033483	0.001871083	0.011087626
ENSMMUG00000059788		0.675378765	0.00169826	0.01025119
ENSMMUG00000055122		0.67562241	0.003491069	0.018297176
ENSMMUG00000053254	adenylate kinase 4 [Source:NCBI gene;Acc:698560]	0.680023755	0.002833971	0.015371211
ENSMMUG00000022514	coiled-coil domain containing 186 [Source:VGNC Symbol;Acc:VGNC:70847]	0.680905606	4.66E-06	6.88E-05
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	0.681274499	0.009696923	0.040948641
ENSMMUG00000054789	family with sequence similarity 174 member A [Source:NCBI gene;Acc:702300]	0.68243979	0.004358787	0.021751492
ENSMMUG00000008556	integrin subunit alpha E [Source:NCBI gene;Acc:721483]	0.682631829	0.000546347	0.004086851
ENSMMUG00000042951	signal recognition particle 19 [Source:NCBI gene;Acc:693829]	0.68413021	0.001655865	0.010091927
ENSMMUG00000019172	spectrin beta, erythrocytic [Source:VGNC Symbol;Acc:VGNC:77870]	0.684333893	0.011708989	0.047341947
ENSMMUG00000016742	CTD small phosphatase like 2 [Source:VGNC Symbol;Acc:VGNC:71593]	0.686086315	0.000622528	0.004545974
ENSMMUG00000063792		0.686186372	0.005084192	0.024411889
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]	0.687526672	0.000110466	0.001068746
ENSMMUG00000045179	1-acylglycerol-3-phosphate O-acyltransferase 3 [Source:NCBI gene;Acc:713301]	0.689802484	0.01098307	0.045122896
ENSMMUG00000017619	lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]	0.690073129	0.000168259	0.001533538
ENSMMUG00000053617	torsin 1A interacting protein 2 [Source:NCBI gene;Acc:716691]	0.691718697	0.003245867	0.01717742
ENSMMUG00000020488	receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]	0.698080188	0.001332501	0.008447874
ENSMMUG00000015503	zinc finger FYVE-type containing 27 [Source:VGNC Symbol;Acc:VGNC:79623]	0.70018992	0.000266819	0.002258193
ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	0.703825876	0.009534136	0.040342464
ENSMMUG00000009128	discs large MAGUK scaffold protein 5 [Source:VGNC Symbol;Acc:VGNC:71921]	0.704112481	0.00044483	0.003414926
ENSMMUG00000059777		0.704264251	0.002431112	0.013636551
ENSMMUG00000050057		0.704340186	0.003304788	0.01744299
ENSMMUG00000001302	sucrase-isomaltase [Source:VGNC Symbol;Acc:VGNC:77213]	0.705978225	0.000432943	0.003340802
ENSMMUG00000039526	tectonic family member 1 [Source:NCBI gene;Acc:711207]	0.706197279	0.009961173	0.041790466
ENSMMUG00000018419	myotubularin related protein 6 [Source:VGNC Symbol;Acc:VGNC:75075]	0.707888985	0.001129291	0.007366651
ENSMMUG00000001667	transmembrane protein 210 [Source:VGNC Symbol;Acc:VGNC:79945]	0.708986337	0.001590637	0.009743975
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	0.711749606	0.00679841	0.030677375
ENSMMUG00000006620	casein kinase 1 gamma 2 [Source:NCBI gene;Acc:709484]	0.71189702	0.011790466	0.047623143
ENSMMUG00000016773	estrogen related receptor beta [Source:VGNC Symbol;Acc:VGNC:72434]	0.712050509	0.012410407	0.049561487
ENSMMUG00000005744	glutamate ionotropic receptor NMDA type subunit 2C [Source:VGNC Symbol;Acc:VGNC:73284]	0.712111108	0.008875351	0.038056286
ENSMMUG00000018255	nuclear factor of activated T cells 5 [Source:VGNC Symbol;Acc:VGNC:75325]	0.713740992	0.00181693	0.010836431
ENSMMUG00000022504	alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]	0.715509983	0.003786139	0.019561176
ENSMMUG00000055345	Y RNA [Source:RFAM;Acc:RF00019]	0.717699127	0.010692016	0.044261178
ENSMMUG00000002982	FAST kinase domains 5 [Source:NCBI gene;Acc:100498658]	0.718650048	0.004161473	0.020970891
ENSMMUG00000020489	HscB mitochondrial iron-sulfur cluster cochaperone [Source:VGNC Symbol;Acc:VGNC:73454]	0.719427308	0.000235147	0.002028908
ENSMMUG00000053458	ORMDL sphingolipid biosynthesis regulator 2 [Source:NCBI gene;Acc:710296]	0.719519143	0.000607555	0.004461115
ENSMMUG00000057979	growth differentiation factor 5 [Source:NCBI gene;Acc:705432]	0.719871603	0.000895557	0.006137935
ENSMMUG00000021676	SVOP like [Source:VGNC Symbol;Acc:VGNC:78224]	0.720048045	0.009510145	0.040287761
ENSMMUG00000018628	tec protein tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78305]	0.720194243	0.000743384	0.005264797
ENSMMUG00000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	0.720706503	0.001249228	0.008013261
ENSMMUG00000016128	SIK family kinase 3 [Source:VGNC Symbol;Acc:VGNC:77330]	0.721284681	0.000696863	0.004988426
ENSMMUG00000056613		0.72431022	0.000158907	0.00146616
ENSMMUG00000057187		0.724314117	0.004216636	0.021208917
ENSMMUG00000008128	FRAS1 related extracellular matrix 1 [Source:VGNC Symbol;Acc:VGNC:72768]	0.724616739	0.005405135	0.025555426

ENSMMUG00000020588	protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]	0.72478398	7.31E-05	0.000754412
ENSMMUG00000016454	4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]	0.725010269	0.000754683	0.005316521
ENSMMUG00000004339	RAB15, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81519]	0.725484241	0.005248383	0.025021751
ENSMMUG00000017026	fibrosin like 1 [Source:NCBI gene;Acc:696295]	0.726277236	0.005392818	0.025527428
ENSMMUG00000002033	serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]	0.727573094	9.31E-06	0.000126974
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	0.729755881	0.010320639	0.042976348
ENSMMUG00000032677	microRNA 760 [Source:HGNC Symbol;Acc:HGNC:33666]	0.731549389	0.008266554	0.035973928
ENSMMUG00000052324	MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]	0.732207103	0.001697303	0.010250579
ENSMMUG00000008133	solute carrier family 17 member 5 [Source:VGNC Symbol;Acc:VGNC:77405]	0.73372926	0.000554678	0.004141413
ENSMMUG00000021938	nudE neurodevelopment protein 1 like 1 [Source:VGNC Symbol;Acc:VGNC:74982]	0.735811222	0.002019004	0.011766226
ENSMMUG00000008106	solute carrier family 25 member 17 [Source:NCBI gene;Acc:705547]	0.73885239	0.011421379	0.046414127
ENSMMUG00000063817	SRY-box transcription factor 9 [Source:NCBI gene;Acc:574208]	0.739764252	0.00280634	0.01526282
ENSMMUG00000045959		0.740443299	0.003846686	0.019805636
ENSMMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	0.740989944	0.005256299	0.025031304
ENSMMUG00000023406	HID1 domain containing [Source:VGNC Symbol;Acc:VGNC:73394]	0.744238859	0.012217862	0.048943754
ENSMMUG00000014110	adhesion G protein-coupled receptor D2 [Source:VGNC Symbol;Acc:VGNC:69462]	0.744948555	3.44E-05	0.000392991
ENSMMUG00000022867	kelch domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74122]	0.745386189	0.000666522	0.004811497
ENSMMUG00000001534	calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]	0.746883808	0.001109296	0.007283402
ENSMMUG00000056008		0.74835047	0.000833444	0.005786275
ENSMMUG00000018344	myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]	0.749395622	0.000432212	0.003337309
ENSMMUG00000003972	EH domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72175]	0.752868535	0.002517212	0.014000033
ENSMMUG00000060771		0.755828365	0.001176598	0.007604389
ENSMMUG00000009825	zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]	0.756779819	0.002487895	0.013887835
ENSMMUG00000057543	MyoD family inhibitor domain containing 2 [Source:HGNC Symbol;Acc:HGNC:53442]	0.758605598	0.002181883	0.012490552
ENSMMUG00000015925	G protein-coupled receptor kinase 2 [Source:VGNC Symbol;Acc:VGNC:73253]	0.758686285	0.00450294	0.022302402
ENSMMUG00000006763	cytochrome c oxidase subunit IV isoform 1 [Source:NCBI gene;Acc:693811]	0.75910326	0.000598233	0.004417042
ENSMMUG00000015477	lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]	0.760431712	0.001340052	0.008477795
ENSMMUG00000054010		0.762194442	0.002286439	0.012959013
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	0.763263369	0.000178184	0.001604463
ENSMMUG00000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]	0.76611853	6.14E-05	0.000644661
ENSMMUG00000016686	BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]	0.766909156	0.004615312	0.022659735
ENSMMUG00000010982	reticulon 4 receptor like 2 [Source:VGNC Symbol;Acc:VGNC:82229]	0.767460669	0.002903858	0.01565047
ENSMMUG00000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	0.768467003	3.92E-05	0.000437742
ENSMMUG00000020744	metastasis associated 1 family member 3 [Source:VGNC Symbol;Acc:VGNC:74814]	0.768613231	0.009465542	0.040119168
ENSMMUG00000004765	Sp2 transcription factor [Source:VGNC Symbol;Acc:VGNC:77845]	0.769227237	0.002366169	0.013341453
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	0.769610035	0.001348595	0.008518339
ENSMMUG00000060493		0.769720781	5.71E-05	0.000604341
ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.769953436	1.59E-06	2.66E-05
ENSMMUG00000008357	macrophage erythroblast attacher [Source:VGNC Symbol;Acc:VGNC:74282]	0.772362533	0.012257812	0.049060703
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	0.775687422	9.99E-07	1.76E-05
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	0.776435516	0.01166865	0.047226681
ENSMMUG00000054784		0.786082579	0.008867834	0.038051302
ENSMMUG00000023418	nuclear receptor subfamily 1 group H member 2 [Source:VGNC Symbol;Acc:VGNC:75504]	0.786130998	4.19E-05	0.000462994
ENSMMUG00000049374		0.78672349	0.003991577	0.020411242
ENSMMUG00000005521	glycogenin 1 [Source:VGNC Symbol;Acc:VGNC:73332]	0.78832313	0.000486263	0.003685748
ENSMMUG00000006295	matrix metalloproteinase 19 [Source:VGNC Symbol;Acc:VGNC:74896]	0.78839422	0.002299652	0.013015423
ENSMMUG00000037887	RBMX like 1 [Source:NCBI gene;Acc:100424767]	0.790843208	0.001437567	0.008962156
ENSMMUG00000021840	stereocilin [Source:NCBI gene;Acc:106996176]	0.791341607	0.000372824	0.0029628
ENSMMUG00000003744	solute carrier family 44 member 2 [Source:VGNC Symbol;Acc:VGNC:77498]	0.792058775	6.10E-06	8.71E-05
ENSMMUG00000056175		0.793017444	0.006564389	0.029823641
ENSMMUG00000062048		0.793051648	0.000471562	0.003592512

ENSMMUG0000009725	triadin [Source:HGNC Symbol;Acc:HGNC:12261]	0.795563048	0.000247379	0.002111626
ENSMMUG0000000151	transmembrane serine protease 6 [Source:VGNC Symbol;Acc:VGNC:79038]	0.79558638	0.00290506	0.01565047
ENSMMUG00000013560	calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]	0.800477022	0.008046831	0.035235411
ENSMMUG00000010949	SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]	0.801168141	0.007318961	0.032535961
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	0.804035786	5.95E-09	1.82E-07
ENSMMUG00000007544	trophinin associated protein [Source:VGNC Symbol;Acc:VGNC:78650]	0.804448706	0.009551714	0.040378161
ENSMMUG00000019438	utrophin [Source:VGNC Symbol;Acc:VGNC:78749]	0.804622733	0.006034514	0.027913999
ENSMMUG00000006470	complement C1r subcomponent [Source:NCBI gene;Acc:722133]	0.805160097	4.68E-05	0.000507698
ENSMMUG00000019500	methenyltetrahydrofolate synthetase domain containing [Source:VGNC Symbol;Acc:VGNC:75023]	0.805838872	0.004038998	0.0205497
ENSMMUG00000062055	glyoxalase I [Source:NCBI gene;Acc:719518]	0.805981987	9.46E-05	0.000940244
ENSMMUG00000018788	transmembrane protein 14B [Source:NCBI gene;Acc:698237]	0.807431352	0.001029384	0.006852641
ENSMMUG00000021418	ATPase H+ transporting V1 subunit D [Source:VGNC Symbol;Acc:VGNC:70060]	0.813289482	0.001985353	0.011638073
ENSMMUG00000054377		0.815582608	5.81E-06	8.31E-05
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	0.816404746	0.001116989	0.007325879
ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	0.81643588	0.000103968	0.001012292
ENSMMUG00000056022		0.817034672	0.001939333	0.011424226
ENSMMUG00000005532	male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]	0.817325136	0.000962201	0.006492012
ENSMMUG00000002878	X-ray repair cross complementing 2 [Source:VGNC Symbol;Acc:VGNC:78813]	0.817359281	0.006186383	0.028440737
ENSMMUG00000032341	coiled-coil domain containing 160 [Source:VGNC Symbol;Acc:VGNC:70926]	0.820659444	0.000865352	0.005969515
ENSMMUG00000016652	cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]	0.82089736	0.004057721	0.020613428
ENSMMUG00000005480	carosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	0.821397995	1.58E-08	4.41E-07
ENSMMUG00000057682		0.822288608	1.66E-05	0.000208882
ENSMMUG00000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	0.825319618	0.001861154	0.011034247
ENSMMUG00000060967		0.828183773	0.011773553	0.047570873
ENSMMUG00000062397		0.830253277	0.00707548	0.031688838
ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	0.83130768	0.003152283	0.016756212
ENSMMUG00000001532	glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]	0.831774101	3.90E-08	1.00E-06
ENSMMUG00000063322		0.832663023	0.005415969	0.025566278
ENSMMUG00000011061	ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]	0.833084069	4.21E-05	0.000463801
ENSMMUG00000022104	family with sequence similarity 174 member C [Source:NCBI gene;Acc:706393]	0.833284871	2.96E-05	0.000343903
ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]	0.833391846	0.000243929	0.002087482
ENSMMUG00000052831		0.834021109	0.003617709	0.018853648
ENSMMUG00000060533		0.836312315	0.000990994	0.006652547
ENSMMUG00000056644		0.836596275	0.001813292	0.010820124
ENSMMUG00000009249	ring finger protein, LIM domain interacting [Source:NCBI gene;Acc:703471]	0.836793812	0.000356202	0.002863007
ENSMMUG00000053004		0.837324368	0.000658285	0.004772164
ENSMMUG00000052424		0.837742907	0.000329487	0.002677028
ENSMMUG00000053133	BPI fold containing family B member 2 [Source:NCBI gene;Acc:710915]	0.839362589	0.001668191	0.010136101
ENSMMUG00000012442	DExD/H-box helicase 58 [Source:VGNC Symbol;Acc:VGNC:71672]	0.840300358	6.56E-06	9.28E-05
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]	0.840918891	1.04E-07	2.44E-06
ENSMMUG00000053488	small integral membrane protein 19 [Source:NCBI gene;Acc:705371]	0.841311989	1.30E-05	0.000170443
ENSMMUG00000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	0.846315538	0.00076716	0.005398063
ENSMMUG00000011994	T cell activation RhoGTPase activating protein [Source:VGNC Symbol;Acc:VGNC:78126]	0.847309539	0.004117364	0.020832086
ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]	0.847853934	2.78E-05	0.00032643
ENSMMUG00000031274	GDF5 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:33435]	0.851225144	0.009566461	0.040426231
ENSMMUG00000003297	coiled-coil domain containing 63 [Source:VGNC Symbol;Acc:VGNC:70879]	0.85261787	0.006051963	0.02796231
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	0.853208717	5.39E-05	0.000574079
ENSMMUG00000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	0.853327017	0.001052245	0.006973813
ENSMMUG00000050516		0.853503167	0.000162592	0.001490965
ENSMMUG00000006291	protocadherin 12 [Source:VGNC Symbol;Acc:VGNC:75776]	0.854017493	0.004266279	0.021413646
ENSMMUG00000006377	plastin 3 [Source:VGNC Symbol;Acc:VGNC:76181]	0.854368447	0.004361481	0.021754723

ENSMMUG00000021082	potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]	0.85455477	7.44E-08	1.80E-06
ENSMMUG00000017260	G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]	0.855717693	0.001068794	0.007060055
ENSMMUG000000051669		0.855893623	5.64E-06	8.08E-05
ENSMMUG00000008336	acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]	0.856124923	6.67E-08	1.65E-06
ENSMMUG000000021891	kinesin light chain 3 [Source:VGNC Symbol;Acc:VGNC:73870]	0.856241656	0.009519985	0.040315185
ENSMMUG00000000382	sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]	0.860395015	0.007599429	0.033558539
ENSMMUG00000015476	unc-13 homolog A [Source:NCBI gene;Acc:720000]	0.860736738	1.28E-05	0.000168299
ENSMMUG00000060987		0.860879204	7.11E-05	0.000735746
ENSMMUG00000042077	DNA damage regulated autophagy modulator 1 [Source:NCBI gene;Acc:697427]	0.861403861	5.18E-06	7.52E-05
ENSMMUG00000020916	coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]	0.862659293	4.59E-09	1.43E-07
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	0.863533321	0.001662907	0.010124545
ENSMMUG00000056477		0.864494762	7.70E-05	0.000788495
ENSMMUG00000009792	heterogeneous nuclear ribonucleoprotein H3 [Source:VGNC Symbol;Acc:VGNC:73497]	0.865971514	0.000437608	0.003368123
ENSMMUG00000017402	phosphoglucomutase 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75839]	0.8662277	0.004359016	0.021751492
ENSMMUG00000061995		0.866422044	1.48E-06	2.51E-05
ENSMMUG00000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	0.866769588	0.00429628	0.021519132
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	0.867773129	9.05E-05	0.000907956
ENSMMUG00000013105	astrotactin 2 [Source:VGNC Symbol;Acc:VGNC:70087]	0.867837907	0.007216664	0.032176755
ENSMMUG00000051583		0.869506624	0.008582464	0.037012455
ENSMMUG00000021446	diacylglycerol kinase zeta [Source:VGNC Symbol;Acc:VGNC:71789]	0.870777416	8.36E-06	0.000115386
ENSMMUG00000006819	helicase for meiosis 1 [Source:NCBI gene;Acc:704516]	0.871362728	0.005800905	0.027074861
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	0.872099187	0.000295511	0.002440718
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	0.874338174	1.99E-05	0.00024387
ENSMMUG00000006293	SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]	0.875374479	3.44E-06	5.29E-05
ENSMMUG00000015288	adaptor related protein complex 3 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:69867]	0.876310218	0.008258999	0.035954114
ENSMMUG00000058544	nucleosome assembly protein 1 like 5 [Source:NCBI gene;Acc:703223]	0.877235461	0.001470504	0.009143696
ENSMMUG00000057560		0.881521378	0.000873658	0.006013175
ENSMMUG00000005906	heat shock transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:73533]	0.882468412	0.007011309	0.031436702
ENSMMUG00000021868	TNF receptor associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79019]	0.882606397	0.0019195	0.011329444
ENSMMUG00000020346	carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]	0.882704848	0.000309857	0.002539936
ENSMMUG00000021267	potassium calcium-activated channel subfamily N member 4 [Source:NCBI gene;Acc:712383]	0.883119779	0.00081858	0.005706235
ENSMMUG00000021812	ERCC excision repair 8, CSA ubiquitin ligase complex subunit [Source:VGNC Symbol;Acc:VGNC:72425]	0.883569179	3.70E-07	7.61E-06
ENSMMUG00000054568		0.884410364	0.005347446	0.025382884
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	0.885074168	0.002344275	0.0132367
ENSMMUG00000054768		0.885929203	0.000745411	0.005269798
ENSMMUG00000016104	chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]	0.886073055	0.001334733	0.008457544
ENSMMUG00000016384	nucleoporin 205 [Source:VGNC Symbol;Acc:VGNC:75432]	0.886524224	0.004367784	0.021777093
ENSMMUG00000014981	homeobox containing 1 [Source:VGNC Symbol;Acc:VGNC:73443]	0.887836485	0.001170486	0.007578732
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]	0.887855094	9.92E-13	5.80E-11
ENSMMUG00000015922	formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]	0.888828758	2.61E-06	4.13E-05
ENSMMUG00000058241	leucine rich repeat and Ig domain containing 3 [Source:NCBI gene;Acc:721484]	0.888955028	0.001083485	0.007141342
ENSMMUG00000018176	clavesin 2 [Source:VGNC Symbol;Acc:VGNC:71322]	0.888987883	0.002634372	0.014518993
ENSMMUG00000044496	H2A histone family, member X [Source:NCBI gene;Acc:703073]	0.890374417	0.01082515	0.044642562
ENSMMUG00000004417	secretion associated Ras related GTPase 1B [Source:VGNC Symbol;Acc:VGNC:76970]	0.892027273	2.75E-09	8.93E-08
ENSMMUG00000064892		0.893206661	0.001624493	0.009915864
ENSMMUG00000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	0.893854478	0.000274596	0.002307393
ENSMMUG00000015861	cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]	0.895145065	0.003015157	0.016127523
ENSMMUG00000018787	PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]	0.895499135	0.000603824	0.00444189
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]	0.897688091	0.000280218	0.002345135
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	0.89830107	0.003765162	0.0194778
ENSMMUG00000001801	membrane associated guanylate kinase, WW and PDZ domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74312]	0.899467271	0.002272284	0.012890987

ENSMMUG0000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	0.899818538	0.000938005	0.006364617
ENSMMUG00000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	0.900370559	0.000544889	0.004081045
ENSMMUG00000006101	myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]	0.900648471	0.000396399	0.003111847
ENSMMUG00000008637	WD repeat containing antisense to TP53 [Source:VGNC Symbol;Acc:VGNC:79508]	0.901447915	0.008328739	0.036178811
ENSMMUG00000051131	MAS related GPR family member G [Source:NCBI gene;Acc:721253]	0.901833333	0.006260298	0.028670491
ENSMMUG00000018166	MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]	0.902168207	0.001110627	0.007288149
ENSMMUG00000014702	TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]	0.902300901	0.011506799	0.046713704
ENSMMUG00000058275	arrestin domain containing 5 [Source:NCBI gene;Acc:697277]	0.904528794	0.004762535	0.023185416
ENSMMUG00000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]	0.905730231	0.000239763	0.002064274
ENSMMUG00000022933	DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]	0.905899491	4.26E-08	1.09E-06
ENSMMUG00000011043	endoplasmic reticulum aminopeptidase 2 [Source:VGNC Symbol;Acc:VGNC:72141]	0.905960773	3.05E-10	1.19E-08
ENSMMUG00000031024	lactate dehydrogenase A [Source:NCBI gene;Acc:694309]	0.906089464	0.001141068	0.007430902
ENSMMUG00000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]	0.907404377	0.004655417	0.022773787
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	0.908234678	0.000925317	0.006296365
ENSMMUG00000002324		0.908778278	0.000340811	0.002754082
ENSMMUG00000055290	netrin 1 [Source:NCBI gene;Acc:717645]	0.909211374	0.004498851	0.022291368
ENSMMUG00000016001	vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]	0.909952803	0.005298117	0.025188668
ENSMMUG00000061684		0.911689152	0.007615052	0.033615136
ENSMMUG00000053496		0.91177129	0.008490809	0.036696476
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]	0.912178104	0.000191064	0.001708872
ENSMMUG00000055209		0.914188875	0.000248213	0.002117239
ENSMMUG00000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	0.916159642	4.54E-06	6.71E-05
ENSMMUG00000014425	protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]	0.916481493	0.005684093	0.026652529
ENSMMUG00000065269	Rho family GTPase 2 [Source:NCBI gene;Acc:712559]	0.917614096	0.012350123	0.049383999
ENSMMUG00000058621		0.91805807	8.04E-05	0.000819589
ENSMMUG00000003233	SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]	0.918849522	1.38E-06	2.36E-05
ENSMMUG00000018029	amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]	0.918930215	0.004005556	0.020465248
ENSMMUG00000021142	DENN domain containing 5A [Source:VGNC Symbol;Acc:VGNC:71674]	0.919350998	0.004798663	0.02332337
ENSMMUG00000003956	interferon alpha and beta receptor subunit 2 [Source:VGNC Symbol;Acc:VGNC:81330]	0.919662197	2.94E-05	0.000341826
ENSMMUG00000021022	deoxynucleotidyltransferase terminal interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:71845]	0.921024121	0.007972657	0.034948953
ENSMMUG00000022931	NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]	0.921601616	0.001018819	0.006805003
ENSMMUG00000009496	centrosomal protein 41 [Source:VGNC Symbol;Acc:VGNC:70937]	0.924787132	0.010614395	0.044031174
ENSMMUG00000053737	BarH like homeobox 2 [Source:NCBI gene;Acc:696831]	0.926370143	9.24E-05	0.000921237
ENSMMUG00000064612	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.927621847	0.000929324	0.006320035
ENSMMUG00000014674	golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]	0.927861204	0.002370624	0.013353992
ENSMMUG00000055498	leucine carboxyl methyltransferase 2 [Source:NCBI gene;Acc:710047]	0.930413719	0.000881777	0.006062093
ENSMMUG00000009318	BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]	0.930906596	1.53E-05	0.000194777
ENSMMUG00000054184	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.931460013	1.76E-05	0.000219387
ENSMMUG00000005483	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	0.932675841	9.97E-05	0.000981606
ENSMMUG00000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]	0.932904987	5.99E-06	8.57E-05
ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	0.933188529	0.003348213	0.017624693
ENSMMUG00000000582	NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]	0.933477491	0.001861017	0.011034247
ENSMMUG00000003585	ALG5 dolichyl-phosphate beta-glucosyltransferase [Source:VGNC Symbol;Acc:VGNC:69647]	0.939191196	7.90E-05	0.000806746
ENSMMUG00000000389	nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]	0.939747561	0.00168724	0.010205245
ENSMMUG00000014123	alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]	0.94000173	0.003203655	0.017014178
ENSMMUG00000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]	0.94164476	0.000634457	0.004627374
ENSMMUG00000020603	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]	0.942098427	1.33E-05	0.000172819
ENSMMUG00000029638	chromosome 7 C15orf65 homolog [Source:VGNC Symbol;Acc:VGNC:70689]	0.942277725	0.012219591	0.048943754
ENSMMUG00000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]	0.943363626	4.57E-07	9.09E-06
ENSMMUG00000061586	chromosome 4 C6orf52 homolog [Source:NCBI gene;Acc:702114]	0.943553506	0.000172392	0.001560516
ENSMMUG00000037413	U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]	0.943575869	8.84E-05	0.000889307

ENSMMUG00000040268	phosphatidylinositol transfer protein alpha [Source:NCBI gene;Acc:721228]	0.943761484	0.001729697	0.010388589
ENSMMUG00000020605	heparanase 2 (inactive) [Source:NCBI gene;Acc:708795]	0.94418331	0.001853446	0.011015814
ENSMMUG00000001827	phospholipid phosphatase related 1 [Source:NCBI gene;Acc:714164]	0.945883241	0.000680889	0.004891619
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]	0.947164649	0.001742831	0.010442787
ENSMMUG00000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	0.947648423	5.26E-11	2.29E-09
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	0.951956616	3.19E-05	0.000366857
ENSMMUG00000001083	glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]	0.952510309	0.00014784	0.00137677
ENSMMUG00000056552		0.953540623	0.004225904	0.021246609
ENSMMUG00000002181	SFI1 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]	0.954610598	3.20E-07	6.66E-06
ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]	0.959117612	0.000203116	0.00179654
ENSMMUG00000042837	mediator complex subunit 26 [Source:NCBI gene;Acc:100424604]	0.959621409	0.004683307	0.022870599
ENSMMUG00000055601		0.959768767	4.62E-05	0.000502035
ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	0.959959408	4.02E-05	0.000446907
ENSMMUG00000057906		0.962682412	4.47E-07	8.93E-06
ENSMMUG00000064242		0.962694916	0.002845141	0.015417834
ENSMMUG00000058106	otoconin 90 [Source:NCBI gene;Acc:100429699]	0.962892837	0.004402913	0.021915747
ENSMMUG00000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	0.963464316	0.000182664	0.0016411
ENSMMUG00000011278	cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]	0.965557154	0.000126414	0.001202491
ENSMMUG00000053916		0.966203328	0.000605178	0.004446387
ENSMMUG00000060754	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.966999999	3.37E-05	0.000385731
ENSMMUG00000013846	5-hydroxytryptamine receptor 3C [Source:VGNC Symbol;Acc:VGNC:84171]	0.968100831	0.002319307	0.013114266
ENSMMUG00000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	0.969572055	0.001492499	0.009261228
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	0.970259242	0.002888784	0.01558382
ENSMMUG00000053710		0.971486213	1.56E-07	3.54E-06
ENSMMUG00000005793	ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]	0.973094722	0.0030683	0.016367913
ENSMMUG00000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]	0.974307515	0.002138589	0.012313338
ENSMMUG00000020258	E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]	0.976000815	6.51E-06	9.23E-05
ENSMMUG00000009494	carboxypeptidase A5 [Source:VGNC Symbol;Acc:VGNC:71410]	0.976061211	0.003457224	0.018135664
ENSMMUG00000002347	myosin light chain 2 [Source:VGNC Symbol;Acc:VGNC:75103]	0.976642357	0.007085089	0.031720009
ENSMMUG00000062394	C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]	0.977162248	0.002831162	0.015362932
ENSMMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]	0.979252988	0.003916072	0.020122581
ENSMMUG00000010943	protein kinase AMP-activated non-catalytic subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:81745]	0.97938941	0.006234212	0.028605716
ENSMMUG00000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	0.979816869	3.44E-06	5.29E-05
ENSMMUG00000058042	heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]	0.980336128	0.001832195	0.010900334
ENSMMUG00000010141	family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]	0.980418547	3.03E-07	6.35E-06
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	0.980921701	3.12E-06	4.85E-05
ENSMMUG00000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	0.981002235	0.000188764	0.001690826
ENSMMUG00000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]	0.98206975	0.000281529	0.002350554
ENSMMUG00000005729	GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]	0.9834653	0.000562151	0.004184168
ENSMMUG00000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	0.983876866	1.34E-05	0.000173984
ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]	0.985053403	1.32E-05	0.00017185
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	0.985495772	0.001548908	0.009546949
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	0.985855124	4.67E-05	0.000506835
ENSMMUG00000000024	prostaglandin D2 receptor [Source:VGNC Symbol;Acc:VGNC:76467]	0.987893648	0.009812484	0.041339025
ENSMMUG00000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	0.988497316	0.003971765	0.02033598
ENSMMUG00000010536	discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]	0.989217797	1.19E-06	2.07E-05
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	0.990765019	1.58E-05	0.000200734
ENSMMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]	0.99167013	0.000132351	0.001252001
ENSMMUG00000031106	ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]	0.992624136	1.66E-10	6.83E-09
ENSMMUG00000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	0.994311057	1.52E-07	3.45E-06
ENSMMUG00000009840	family with sequence similarity 227 member B [Source:VGNC Symbol;Acc:VGNC:72370]	0.994675772	0.001064089	0.007040621

ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	0.99638782	0.000666275	0.004811497
ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	0.996788065	0.00033793	0.002738193
ENSMMUG00000051420	homeobox B5 [Source:NCBI gene;Acc:696732]	0.99689421	0.000717376	0.005110821
ENSMMUG00000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	0.999648376	2.22E-06	3.56E-05
ENSMMUG00000007366		0.99997226	0.000370892	0.002955291
ENSMMUG00000056343		1.001140304	0.002385466	0.013412366
ENSMMUG00000005486	protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]	1.002181168	0.000779966	0.005475307
ENSMMUG00000020583	FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]	1.002285689	1.34E-05	0.000173266
ENSMMUG00000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]	1.003004681	0.000717155	0.005110821
ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	1.003358192	0.006241935	0.028619225
ENSMMUG00000055096		1.003890692	0.001024049	0.006820916
ENSMMUG00000054803		1.005956848	0.002501034	0.013937825
ENSMMUG00000000198	collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]	1.006002786	7.15E-06	9.98E-05
ENSMMUG00000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	1.006371061	0.000854568	0.005905541
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	1.007797536	1.86E-06	3.05E-05
ENSMMUG00000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]	1.008276224	2.58E-15	2.20E-13
ENSMMUG00000008006	RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]	1.010737857	1.40E-06	2.39E-05
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	1.014946555	1.67E-07	3.76E-06
ENSMMUG00000003314	aquaporin 3 (Gill blood group) [Source:NCBI gene;Acc:702721]	1.017744163	0.004043948	0.020564892
ENSMMUG00000011330	neuronal PAS domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75377]	1.017835714	0.000823423	0.00573273
ENSMMUG00000055241		1.020254805	2.54E-05	0.000302294
ENSMMUG00000006936	gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]	1.020318436	3.89E-07	7.95E-06
ENSMMUG00000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]	1.020654806	0.000117079	0.001119029
ENSMMUG00000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]	1.022805071	0.000172049	0.001559774
ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	1.022921595	0.001518893	0.009400655
ENSMMUG00000052476	zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]	1.023323246	2.83E-06	4.44E-05
ENSMMUG00000008979	protein O-fucosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76030]	1.025543893	0.00167437	0.010151416
ENSMMUG00000017055	divergent protein kinase domain 2A [Source:VGNC Symbol;Acc:VGNC:71781]	1.02811167	0.009233367	0.03929595
ENSMMUG00000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	1.029347304	2.56E-07	5.51E-06
ENSMMUG00000056093	shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]	1.031098858	0.001011446	0.006770862
ENSMMUG00000058437		1.031379265	8.76E-05	0.000883998
ENSMMUG00000019830	Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]	1.032654541	0.000744	0.005266044
ENSMMUG00000004224	poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]	1.032692444	1.73E-07	3.89E-06
ENSMMUG00000019837	ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]	1.032846377	0.000153374	0.001420574
ENSMMUG00000003669	methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]	1.032888286	2.14E-05	0.000260327
ENSMMUG00000018648	zinc finger protein 594 [Source:NCBI gene;Acc:711492]	1.035528183	0.001174639	0.007597989
ENSMMUG00000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	1.036037994	0.0002766	0.002318095
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	1.036618528	4.92E-17	5.78E-15
ENSMMUG00000017533	interferon induced protein with tetratricopeptide repeats 1 [Source:NCBI gene;Acc:695683]	1.036702639	0.01095554	0.045057971
ENSMMUG00000011788	zinc finger protein 212 [Source:VGNC Symbol;Acc:VGNC:78418]	1.03779879	0.001951633	0.011479746
ENSMMUG00000048066	trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]	1.040574265	0.00067832	0.004879013
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	1.042843249	0.000199029	0.001769542
ENSMMUG00000060812	autophagy related 12 [Source:NCBI gene;Acc:696765]	1.043936363	3.84E-05	0.000429419
ENSMMUG00000056950		1.048304168	2.67E-07	5.73E-06
ENSMMUG00000009976	uridine-cytidine kinase 1 [Source:VGNC Symbol;Acc:VGNC:78967]	1.050262658	1.40E-06	2.39E-05
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	1.05093322	0.000126769	0.001204905
ENSMMUG00000042510	coagulation factor V [Source:NCBI gene;Acc:704695]	1.052330665	0.000396516	0.003111847
ENSMMUG00000000187	UV radiation resistance associated [Source:VGNC Symbol;Acc:VGNC:78751]	1.054064564	0.00805062	0.035239118
ENSMMUG00000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	1.057194173	5.07E-12	2.62E-10
ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	1.061231325	1.13E-07	2.63E-06
ENSMMUG00000058815	core-binding factor subunit beta [Source:NCBI gene;Acc:695767]	1.062094848	0.004839651	0.023492422

ENSMMUG00000052607		1.062105336	6.74E-08	1.66E-06
ENSMMUG00000007804	RAN binding protein 10 [Source:VGNC Symbol;Acc:VGNC:76563]	1.063023295	0.000977205	0.006574722
ENSMMUG00000021904	cell division cycle 45 [Source:VGNC Symbol;Acc:VGNC:70800]	1.063208182	0.000172254	0.001560448
ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.063579027	4.34E-06	6.46E-05
ENSMMUG00000006405	secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]	1.06635802	0.004913879	0.023769381
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]	1.066457383	1.94E-08	5.29E-07
ENSMMUG00000011951	KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]	1.066590192	0.000477639	0.003631875
ENSMMUG00000020633	suppressor of cancer cell invasion [Source:NCBI gene;Acc:712803]	1.066815951	0.002508357	0.013965638
ENSMMUG00000019223	TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]	1.070892232	0.00017499	0.001579264
ENSMMUG00000064391		1.070992675	0.002005051	0.011707702
ENSMMUG00000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	1.070992811	0.000204167	0.00180211
ENSMMUG00000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	1.071429629	2.98E-15	2.51E-13
ENSMMUG00000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	1.072690669	0.001823635	0.010870571
ENSMMUG00000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	1.073994269	7.04E-06	9.87E-05
ENSMMUG00000001278	vitrin [Source:VGNC Symbol;Acc:VGNC:78773]	1.075528069	0.000736308	0.005223945
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	1.076319848	0.000518935	0.003918516
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.076695872	4.52E-08	1.15E-06
ENSMMUG00000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	1.077884636	7.21E-08	1.76E-06
ENSMMUG00000003106	SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]	1.078064132	0.001508216	0.009347871
ENSMMUG00000006596	CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]	1.079206851	0.001640345	0.010002427
ENSMMUG00000003105	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]	1.080272394	2.79E-05	0.000327042
ENSMMUG00000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	1.081305004	1.90E-09	6.41E-08
ENSMMUG00000061335		1.085105954	0.005630356	0.026432435
ENSMMUG00000013044	selectin P [Source:VGNC Symbol;Acc:VGNC:77157]	1.085908107	0.009092196	0.038833145
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	1.087003099	3.34E-05	0.000382537
ENSMMUG00000053481		1.087231963	0.001513718	0.009373468
ENSMMUG00000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	1.088357723	0.008916893	0.038179732
ENSMMUG00000053378		1.088412064	0.004937778	0.023854308
ENSMMUG00000051363		1.088959919	0.00098313	0.00660346
ENSMMUG00000044265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.089263018	0.001880409	0.011131874
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]	1.093460483	0.010806835	0.044628501
ENSMMUG00000057134	keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]	1.093758683	0.00715745	0.031948425
ENSMMUG00000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	1.094105298	0.000421151	0.003264536
ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	1.094583519	1.31E-05	0.000170606
ENSMMUG00000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]	1.095701408	6.87E-07	1.26E-05
ENSMMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]	1.095725978	2.11E-05	0.000258336
ENSMMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]	1.096986841	9.06E-06	0.000123673
ENSMMUG00000050028		1.097247122	5.13E-05	0.000551462
ENSMMUG00000013696	myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]	1.099091845	0.006239386	0.028618493
ENSMMUG00000055048		1.100135723	1.00E-06	1.77E-05
ENSMMUG00000003499	solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]	1.100183226	0.002100002	0.012149575
ENSMMUG00000058187		1.100237419	6.02E-07	1.14E-05
ENSMMUG00000011817	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	1.100642378	3.52E-07	7.28E-06
ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	1.102814376	2.03E-12	1.13E-10
ENSMMUG00000038221	proteasome 26S subunit, non-ATPase 8 [Source:NCBI gene;Acc:721897]	1.105626413	4.66E-05	0.00050595
ENSMMUG00000016376	mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]	1.106581241	0.005697328	0.026694523
ENSMMUG00000053656		1.106881761	1.82E-06	2.99E-05
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	1.10707002	8.15E-07	1.47E-05
ENSMMUG00000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	1.107252418	1.08E-07	2.52E-06
ENSMMUG00000053989		1.109467965	2.85E-07	6.04E-06
ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	1.109831275	4.41E-10	1.69E-08

ENSMMUG0000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	1.111179652	2.69E-11	1.24E-09
ENSMMUG00000058856	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.111860905	0.001234175	0.007920941
ENSMMUG00000063495		1.112008376	8.21E-08	1.97E-06
ENSMMUG00000017280	TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]	1.114131101	0.002698955	0.014833726
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	1.114835684	4.98E-12	2.58E-10
ENSMMUG00000022348	surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]	1.115931091	0.000282114	0.002351147
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	1.115985986	5.26E-13	3.23E-11
ENSMMUG00000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	1.117598941	2.78E-08	7.35E-07
ENSMMUG00000061526	synaptopodin 2 like [Source:NCBI gene;Acc:714736]	1.119379979	4.01E-05	0.000446084
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	1.119543028	0.000226099	0.001969277
ENSMMUG00000055963		1.120046546	0.000913692	0.006231424
ENSMMUG00000014897	ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]	1.121569863	0.001423221	0.008881969
ENSMMUG00000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	1.12228952	1.16E-15	1.03E-13
ENSMMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]	1.123146354	2.58E-07	5.55E-06
ENSMMUG00000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	1.123432249	4.36E-12	2.31E-10
ENSMMUG00000055893		1.123751971	0.002382792	0.013403626
ENSMMUG00000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	1.12676886	9.16E-05	0.000914888
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	1.126900457	0.002797975	0.015233333
ENSMMUG00000040888	complement C3b/C4b receptor 1 like [Source:HGNC Symbol;Acc:HGNC:2335]	1.127507005	1.43E-06	2.42E-05
ENSMMUG00000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.128784832	1.91E-08	5.22E-07
ENSMMUG00000049866		1.131189497	4.16E-05	0.000459173
ENSMMUG00000003568	testis expressed 101 [Source:VGNC Symbol;Acc:VGNC:79869]	1.133125718	0.002488585	0.013887835
ENSMMUG00000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	1.133774195	4.79E-08	1.21E-06
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.133826124	4.82E-07	9.50E-06
ENSMMUG00000059897	myosin light chain 9 [Source:NCBI gene;Acc:709784]	1.134411541	0.008279858	0.036005658
ENSMMUG00000059608	fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]	1.134890585	0.006418795	0.029300238
ENSMMUG00000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]	1.13499264	0.000229125	0.001986964
ENSMMUG00000019835	CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]	1.13648081	0.000900243	0.006157232
ENSMMUG00000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]	1.141596919	1.57E-06	2.64E-05
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	1.141663007	0.000162265	0.00148911
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	1.142924535	7.70E-05	0.000788495
ENSMMUG00000061785		1.143577769	2.72E-11	1.25E-09
ENSMMUG00000049935		1.14450329	0.003044467	0.016269761
ENSMMUG00000060502		1.145171557	0.000416984	0.003236419
ENSMMUG00000000588	rhomboid 5 homolog 1 [Source:NCBI gene;Acc:693423]	1.151039499	0.004527344	0.022361952
ENSMMUG00000019607	patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]	1.152341503	8.02E-07	1.45E-05
ENSMMUG00000009788	tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]	1.154751379	0.001278779	0.008154769
ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	1.155840481	0.001318602	0.008377495
ENSMMUG00000010363	ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]	1.156197324	0.005731349	0.026822446
ENSMMUG00000006692	signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]	1.156544277	0.000281848	0.002350563
ENSMMUG00000016826	MAPK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:74531]	1.157046728	0.003449516	0.018109702
ENSMMUG00000060102	cytokine receptor like factor 1 [Source:NCBI gene;Acc:720247]	1.157626058	0.011658274	0.047216603
ENSMMUG00000002382	serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]	1.159314321	7.39E-05	0.000761756
ENSMMUG00000002810	TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]	1.15953649	4.99E-05	0.000538078
ENSMMUG00000061222	adipocyte plasma membrane associated protein [Source:NCBI gene;Acc:704948]	1.163025493	0.002553574	0.014164705
ENSMMUG00000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	1.165472827	0.000156799	0.001448943
ENSMMUG00000007197	BRCA2 DNA repair associated [Source:VGNC Symbol;Acc:VGNC:70279]	1.166032549	9.24E-05	0.000921237
ENSMMUG00000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]	1.167023835	6.71E-07	1.25E-05
ENSMMUG00000055121	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.169288403	0.001996066	0.011678011
ENSMMUG00000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	1.169898302	7.06E-07	1.29E-05
ENSMMUG00000058750	nuclear receptor interacting protein 1 [Source:NCBI gene;Acc:693866]	1.171427493	0.001217287	0.007837758

ENSMMUG0000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]	1.174698156	3.45E-08	8.96E-07
ENSMMUG00000058835		1.175001794	0.001257758	0.008049889
ENSMMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]	1.175413901	0.000302111	0.002481535
ENSMMUG00000016876	integrin subunit alpha L [Source:NCBI gene;Acc:711945]	1.175839587	0.000100424	0.0009866
ENSMMUG000000041729		1.180993473	0.006679426	0.030185965
ENSMMUG000000051408	myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]	1.182562394	1.08E-05	0.000145572
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	1.183710144	7.57E-05	0.000778536
ENSMMUG00000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]	1.184740609	0.000530955	0.003994171
ENSMMUG00000007799	LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]	1.186521732	0.009432739	0.040010077
ENSMMUG000000057703		1.187271897	0.005982822	0.027722364
ENSMMUG00000015926	2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]	1.188750088	0.0002107	0.001849961
ENSMMUG00000002483	citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]	1.189729163	0.0020223	0.011773699
ENSMMUG000000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	1.191320818	0.000557322	0.004155973
ENSMMUG00000015303	ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]	1.191399026	2.94E-11	1.33E-09
ENSMMUG000000058566		1.191822954	1.30E-05	0.000170443
ENSMMUG00000009495	carboxypeptidase A1 [Source:VGNC Symbol;Acc:VGNC:71455]	1.192085605	0.008148471	0.035602368
ENSMMUG000000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	1.192836876	0.002598411	0.014366839
ENSMMUG000000022109	CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]	1.193835835	0.001623113	0.009912491
ENSMMUG000000056906		1.197113255	7.62E-06	0.000105751
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]	1.197336243	5.81E-07	1.11E-05
ENSMMUG00000013877	otoancorin [Source:VGNC Symbol;Acc:VGNC:75624]	1.197689662	0.012088394	0.048548159
ENSMMUG000000055324	homeobox B7 [Source:NCBI gene;Acc:697089]	1.197827026	0.000115198	0.001104955
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	1.19825861	1.74E-10	7.12E-09
ENSMMUG00000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]	1.199938415	3.71E-05	0.000418034
ENSMMUG000000052073		1.200514239	5.53E-07	1.07E-05
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	1.201190577	1.34E-05	0.000173266
ENSMMUG00000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]	1.201832685	3.54E-05	0.000401491
ENSMMUG000000031794		1.202141205	0.001991612	0.011663345
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]	1.202265846	1.27E-07	2.94E-06
ENSMMUG000000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.202389387	1.88E-10	7.56E-09
ENSMMUG000000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]	1.203206163	8.22E-08	1.97E-06
ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]	1.203546413	2.38E-10	9.53E-09
ENSMMUG00000004816	membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]	1.204805676	4.25E-06	6.34E-05
ENSMMUG000000061816		1.204908621	0.001924146	0.011345926
ENSMMUG000000037890		1.205137235	0.011919796	0.048019133
ENSMMUG00000013447	adaptor related protein complex 4 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69974]	1.205285282	0.011489147	0.046657859
ENSMMUG00000014986	testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]	1.205949741	3.23E-05	0.000371128
ENSMMUG000000049297		1.20615854	5.57E-05	0.00059058
ENSMMUG000000054090		1.207337094	0.001170729	0.007578732
ENSMMUG000000023678	pleckstrin homology and RhoGEF domain containing G5 [Source:VGNC Symbol;Acc:VGNC:76130]	1.207533376	0.001123958	0.007343438
ENSMMUG00000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]	1.208971812	2.91E-07	6.15E-06
ENSMMUG000000065221		1.20922957	3.12E-10	1.21E-08
ENSMMUG00000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.209865005	0.003578584	0.018706729
ENSMMUG00000010201	atrophin 1 [Source:VGNC Symbol;Acc:VGNC:70157]	1.210567384	0.000173882	0.00157163
ENSMMUG000000064610	long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]	1.214416788	2.45E-05	0.000292744
ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	1.214957716	3.01E-13	1.94E-11
ENSMMUG000000051807		1.217262529	0.008246154	0.035924316
ENSMMUG000000008162	fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]	1.217609315	0.000108499	0.001052988
ENSMMUG00000010886	strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]	1.218333771	0.000293159	0.002427989
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	1.219698744	2.85E-07	6.05E-06
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	1.222533969	0.000370526	0.002954339

ENSMMUG00000044080	mitochondrial ribosomal protein L54 [Source:NCBI gene;Acc:713878]	1.223181104	0.001665781	0.010131741
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	1.223234234	1.61E-06	2.69E-05
ENSMMUG000000061951		1.22403015	0.011205002	0.045752168
ENSMMUG00000009346	ArfGAP with GTPase domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:84206]	1.224147899	0.001415014	0.008839962
ENSMMUG00000013193	matrix metalloproteinase 16 [Source:VGNC Symbol;Acc:VGNC:74894]	1.225670566	1.86E-10	7.50E-09
ENSMMUG00000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	1.226648397	3.43E-06	5.29E-05
ENSMMUG00000000590	NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]	1.227446278	0.010543553	0.043767624
ENSMMUG00000009622	glypican 3 [Source:VGNC Symbol;Acc:VGNC:73117]	1.228129632	0.004012352	0.020473766
ENSMMUG00000031785		1.228166989	1.33E-05	0.000172819
ENSMMUG00000060496	translocase of outer mitochondrial membrane 40 like [Source:NCBI gene;Acc:100426891]	1.228388366	0.010823637	0.044642562
ENSMMUG00000062316	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.229791565	1.61E-06	2.68E-05
ENSMMUG00000013099	pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]	1.230247192	0.005974636	0.027711947
ENSMMUG00000060063		1.230752273	0.000114617	0.00110253
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]	1.232151462	0.000199925	0.001773556
ENSMMUG00000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]	1.234282827	1.28E-07	2.95E-06
ENSMMUG00000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	1.238038206	1.80E-10	7.27E-09
ENSMMUG00000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	1.239792172	7.47E-07	1.36E-05
ENSMMUG00000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	1.24198914	0.000115238	0.001104955
ENSMMUG00000014291	SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]	1.244299874	6.73E-06	9.47E-05
ENSMMUG00000060596	BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]	1.244505425	1.63E-05	0.00020596
ENSMMUG00000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	1.245201775	0.00036359	0.002905382
ENSMMUG00000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	1.246676574	0.001125406	0.007348888
ENSMMUG00000007546	complement C1q like 4 [Source:VGNC Symbol;Acc:VGNC:70450]	1.246965574	0.011294888	0.046025033
ENSMMUG00000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]	1.250043771	2.50E-11	1.16E-09
ENSMMUG00000014589	inositol hexakisphosphate kinase 1 [Source:VGNC Symbol;Acc:VGNC:73621]	1.250391539	0.000403576	0.003151001
ENSMMUG00000052348		1.250678435	1.86E-05	0.000230609
ENSMMUG00000003611	low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:74248]	1.250973319	0.000237258	0.002045648
ENSMMUG00000002211	doublecortin like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71670]	1.251303909	0.001659165	0.010106897
ENSMMUG00000002124	beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]	1.25176463	0.003833803	0.019756295
ENSMMUG00000051072		1.251783885	9.92E-07	1.76E-05
ENSMMUG00000016255	telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]	1.25238243	0.000240707	0.00207091
ENSMMUG00000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	1.252888094	5.42E-07	1.05E-05
ENSMMUG00000023300	FERM domain containing 8 [Source:NCBI gene;Acc:716379]	1.252982253	0.006746828	0.030459314
ENSMMUG00000065212		1.253639192	0.000547289	0.004091343
ENSMMUG00000051677		1.254238016	0.000102772	0.00100391
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	1.254386377	6.22E-05	0.000652576
ENSMMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]	1.255910024	0.000297817	0.002456373
ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	1.257721614	2.10E-16	2.15E-14
ENSMMUG00000058881	bone morphogenetic protein 8b [Source:NCBI gene;Acc:100427030]	1.260534685	0.010144475	0.042390173
ENSMMUG00000045970	thiamine triphosphatase [Source:NCBI gene;Acc:714403]	1.261462215	1.88E-11	8.96E-10
ENSMMUG00000062518		1.262222265	0.002106757	0.012176893
ENSMMUG00000038076	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.262742604	0.012073984	0.048506553
ENSMMUG00000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	1.262889484	0.01137429	0.046269871
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	1.263999552	0.000340718	0.002754082
ENSMMUG00000006941	exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]	1.264206778	1.88E-06	3.07E-05
ENSMMUG00000056924	G protein-coupled receptor 149 [Source:NCBI gene;Acc:106997054]	1.265439155	0.009966063	0.041790466
ENSMMUG00000062485	ESF1 nucleolar pre-rRNA processing protein homolog [Source:NCBI gene;Acc:694159]	1.266589052	0.000831983	0.005779483
ENSMMUG00000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	1.267880592	1.37E-06	2.35E-05
ENSMMUG00000011440	neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]	1.269177628	0.002155987	0.012383741
ENSMMUG00000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	1.270350737	3.29E-06	5.09E-05
ENSMMUG00000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]	1.270955096	9.53E-05	0.000946118

ENSMMUG0000007548	DnaJ heat shock protein family (Hsp40) member C22 [Source:NCBI gene;Acc:710205]	1.273735977	0.006802501	0.030684275
ENSMMUG00000019126	purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]	1.275803284	0.008872475	0.038056286
ENSMMUG00000055352		1.276061974	1.01E-17	1.28E-15
ENSMMUG00000014131	microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]	1.276171832	0.000328771	0.002673022
ENSMMUG00000022406	ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]	1.276994217	4.76E-08	1.21E-06
ENSMMUG00000023048	cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]	1.277913813	0.003613331	0.018839028
ENSMMUG00000053329		1.278145045	0.003806817	0.019642584
ENSMMUG00000062474	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.279948098	0.010830615	0.044649721
ENSMMUG00000008651	FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]	1.281686557	0.000143988	0.001342992
ENSMMUG00000054286		1.282558229	0.005352858	0.025398508
ENSMMUG00000042870	Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]	1.283075832	0.004195868	0.021122202
ENSMMUG00000010173	presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]	1.284590285	9.15E-05	0.000914888
ENSMMUG00000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	1.286448322	1.04E-07	2.44E-06
ENSMMUG00000044822	coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]	1.288018497	2.15E-09	7.19E-08
ENSMMUG00000008081	ATP binding cassette subfamily G member 8 [Source:VGNC Symbol;Acc:VGNC:69392]	1.290325343	0.000433982	0.003344513
ENSMMUG00000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]	1.292330923	0.000380904	0.003007058
ENSMMUG00000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	1.293910332	5.28E-09	1.63E-07
ENSMMUG00000009593	WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]	1.295353042	5.45E-06	7.86E-05
ENSMMUG00000009887	MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]	1.29674556	0.000213176	0.001866224
ENSMMUG00000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.299066001	5.99E-07	1.14E-05
ENSMMUG00000055897		1.301502534	3.58E-06	5.46E-05
ENSMMUG00000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.302101266	8.73E-08	2.08E-06
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	1.305634996	0.000159432	0.001468734
ENSMMUG00000046883	autophagy related 4D cysteine peptidase [Source:NCBI gene;Acc:713111]	1.306051565	0.009434574	0.040010077
ENSMMUG00000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	1.307023458	2.35E-09	7.77E-08
ENSMMUG00000002377	Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]	1.307334024	0.008438704	0.036537227
ENSMMUG00000011774	integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	1.307501953	9.83E-08	2.32E-06
ENSMMUG00000014766	neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]	1.308415551	5.00E-05	0.000538078
ENSMMUG00000050608		1.308579178	1.43E-05	0.000183339
ENSMMUG00000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	1.308657302	1.07E-05	0.000143937
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	1.309421357	6.10E-05	0.000641203
ENSMMUG00000065025		1.309764115	8.86E-05	0.000890723
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]	1.309767828	2.03E-06	3.28E-05
ENSMMUG00000062139		1.314958247	0.009842905	0.041419053
ENSMMUG00000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	1.319124181	6.60E-08	1.64E-06
ENSMMUG00000019527	DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]	1.319548297	0.004662362	0.022781086
ENSMMUG00000064920		1.319834684	6.30E-07	1.19E-05
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]	1.32168404	3.39E-07	7.04E-06
ENSMMUG00000006375	coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]	1.322656359	0.00463121	0.022721576
ENSMMUG00000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	1.32365674	4.31E-08	1.10E-06
ENSMMUG00000024170	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.324323025	5.23E-05	0.000558975
ENSMMUG00000054472		1.324693029	3.44E-09	1.10E-07
ENSMMUG00000020980	ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]	1.327135943	0.000199778	0.001773556
ENSMMUG00000005639	transmembrane protein 41B [Source:VGNC Symbol;Acc:VGNC:79754]	1.329336004	0.001550464	0.009547902
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	1.331817114	3.64E-06	5.54E-05
ENSMMUG00000003555	calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]	1.333395304	3.24E-06	5.01E-05
ENSMMUG00000058800		1.334565753	3.07E-06	4.78E-05
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	1.33462363	1.73E-05	0.000216708
ENSMMUG00000023717	MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]	1.336171953	9.69E-07	1.72E-05
ENSMMUG00000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	1.337752512	2.45E-05	0.000292744
ENSMMUG00000022914	RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]	1.33814797	1.44E-08	4.05E-07

ENSMMUG0000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	1.343486404	0.000186972	0.00167603
ENSMMUG0000008778	parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]	1.343919524	1.22E-05	0.000160618
ENSMMUG00000049494		1.345008261	0.001046836	0.006949504
ENSMMUG00000061342		1.348886838	0.000196177	0.001748075
ENSMMUG00000020040	phosphatase and actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:75841]	1.349202324	0.002225337	0.012683819
ENSMMUG00000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	1.353348857	8.77E-05	0.000884335
ENSMMUG00000029421	protein tyrosine phosphatase receptor type K [Source:VGNC Symbol;Acc:VGNC:83453]	1.353791765	0.005800797	0.027074861
ENSMMUG00000057702		1.354092121	1.49E-09	5.15E-08
ENSMMUG00000053498		1.354932993	0.00190713	0.01126778
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]	1.354938784	3.69E-09	1.17E-07
ENSMMUG00000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	1.355004468	2.30E-07	5.01E-06
ENSMMUG00000008758	zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]	1.355656338	0.006971029	0.03131472
ENSMMUG00000048204	ephrin B3 [Source:NCBI gene;Acc:716257]	1.356396792	3.90E-06	5.89E-05
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]	1.356930932	0.002725613	0.014945945
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	1.357491496	9.25E-10	3.35E-08
ENSMMUG00000055256	family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]	1.358082632	8.24E-07	1.48E-05
ENSMMUG00000044581	modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]	1.359053714	0.000313922	0.002571501
ENSMMUG00000017266	UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]	1.362287917	3.69E-08	9.55E-07
ENSMMUG00000016476	TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]	1.363190881	4.08E-07	8.28E-06
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	1.364665565	3.07E-09	9.88E-08
ENSMMUG00000010203	protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]	1.364685887	2.51E-05	0.000298443
ENSMMUG00000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	1.365222502	8.48E-06	0.000116706
ENSMMUG00000019925	DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]	1.365692701	3.13E-07	6.55E-06
ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]	1.367413925	1.90E-12	1.06E-10
ENSMMUG00000018664	collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]	1.367715165	0.000149022	0.001383479
ENSMMUG00000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	1.367911265	2.43E-10	9.67E-09
ENSMMUG00000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	1.368178248	6.02E-10	2.24E-08
ENSMMUG00000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	1.368385563	9.84E-10	3.53E-08
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	1.369588375	9.00E-10	3.29E-08
ENSMMUG00000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]	1.37296162	1.65E-06	2.73E-05
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]	1.374213063	3.47E-05	0.000394891
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	1.374569484	7.58E-12	3.82E-10
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	1.375331623	1.54E-09	5.30E-08
ENSMMUG00000056945		1.376033352	5.37E-09	1.65E-07
ENSMMUG00000060712		1.378224206	1.27E-07	2.94E-06
ENSMMUG00000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	1.378765241	7.35E-06	0.000102402
ENSMMUG00000058108	BMP and activin membrane bound inhibitor [Source:NCBI gene;Acc:710152]	1.379054223	0.008445476	0.036540107
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	1.379250548	7.36E-08	1.78E-06
ENSMMUG00000045544	neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]	1.380880042	9.72E-09	2.84E-07
ENSMMUG00000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	1.381033379	2.73E-08	7.23E-07
ENSMMUG00000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	1.384010668	1.40E-07	3.20E-06
ENSMMUG00000017370	signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]	1.385026257	0.00590557	0.027444742
ENSMMUG00000056840		1.385325459	0.000324524	0.002645674
ENSMMUG00000007970	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]	1.38600924	6.11E-07	1.15E-05
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	1.386041281	5.45E-16	4.95E-14
ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	1.386608229	3.92E-06	5.90E-05
ENSMMUG00000014138	forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]	1.386678728	0.009748719	0.041109385
ENSMMUG00000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	1.393369107	0.000911171	0.006221317
ENSMMUG00000058137	zinc finger protein 816 [Source:NCBI gene;Acc:720058]	1.394279556	0.00135524	0.008537796
ENSMMUG00000056009		1.394691852	3.19E-09	1.02E-07
ENSMMUG00000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	1.397194338	0.000824295	0.00573273

ENSMMUG00000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	1.397427598	2.53E-10	1.00E-08
ENSMMUG0000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	1.398053524	1.13E-05	0.0001497
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	1.399324828	3.22E-10	1.25E-08
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	1.399483218	0.000640747	0.00466763
ENSMMUG00000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]	1.40232175	6.34E-06	9.00E-05
ENSMMUG00000049770	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.402414127	0.002874179	0.015526011
ENSMMUG00000006689	nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]	1.40256647	0.000398186	0.003120861
ENSMMUG00000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	1.402637022	2.66E-06	4.19E-05
ENSMMUG00000053990		1.405968242	0.004049155	0.02058263
ENSMMUG00000001917	megakaryocyte-associated tyrosine kinase [Source:NCBI gene;Acc:100430078]	1.406106237	4.00E-07	8.14E-06
ENSMMUG000000063112		1.407854939	0.006209195	0.028512774
ENSMMUG00000004280	DDB1 and CUL4 associated factor 1 [Source:VGNC Symbol;Acc:VGNC:71819]	1.408118429	0.011451804	0.046521983
ENSMMUG000000061391	ankyrin repeat domain 49 [Source:NCBI gene;Acc:697693]	1.408350834	0.000999191	0.006696314
ENSMMUG00000004222	thromboxane A synthase 1 [Source:VGNC Symbol;Acc:VGNC:78278]	1.408664502	9.57E-08	2.26E-06
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	1.40941557	2.54E-08	6.78E-07
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	1.410128946	2.36E-13	1.55E-11
ENSMMUG00000023345	adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]	1.41552352	0.009875091	0.041496173
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	1.416428462	1.68E-06	2.78E-05
ENSMMUG00000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	1.416906824	5.32E-07	1.04E-05
ENSMMUG000000060667		1.422173654	0.011087632	0.04538123
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	1.423079092	6.18E-20	1.07E-17
ENSMMUG000000056186		1.427841138	0.001502949	0.00932124
ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	1.428333409	1.12E-05	0.000149264
ENSMMUG000000055820		1.428626192	0.002368063	0.013345843
ENSMMUG000000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	1.430877372	2.22E-07	4.90E-06
ENSMMUG00000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]	1.43182559	1.11E-09	3.93E-08
ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	1.432977913	2.87E-12	1.56E-10
ENSMMUG00000019933	TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]	1.434014351	0.002769064	0.01512189
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	1.438722897	1.41E-05	0.00018151
ENSMMUG00000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	1.440064983	7.28E-07	1.33E-05
ENSMMUG00000014277	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	1.440167605	1.90E-11	9.02E-10
ENSMMUG00000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	1.442878756	1.87E-09	6.32E-08
ENSMMUG000000063590		1.443376802	5.19E-05	0.000555435
ENSMMUG000000064463		1.444258987	0.00765912	0.033747469
ENSMMUG000000055914		1.445169755	4.23E-05	0.000465267
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]	1.445710587	1.83E-06	2.99E-05
ENSMMUG000000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	1.445889459	2.50E-05	0.000297666
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	1.451719439	3.79E-05	0.000425463
ENSMMUG000000061576		1.452524154	0.012176881	0.048838021
ENSMMUG000000038363	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]	1.453294166	5.32E-17	6.19E-15
ENSMMUG00000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]	1.453655084	1.31E-05	0.000170541
ENSMMUG00000009508	TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]	1.455020399	0.010819564	0.044642562
ENSMMUG000000062837		1.455740372	0.007259411	0.032343291
ENSMMUG00000007603	coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]	1.456663828	6.69E-06	9.43E-05
ENSMMUG00000019667	TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]	1.457289847	0.004835128	0.023481544
ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	1.457507374	1.40E-11	6.89E-10
ENSMMUG00000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	1.45888757	4.22E-06	6.31E-05
ENSMMUG00000023146	ASH1 like histone lysine methyltransferase [Source:NCBI gene;Acc:717778]	1.459118592	0.010691079	0.044261178
ENSMMUG000000060576		1.460330717	4.11E-07	8.32E-06
ENSMMUG000000059188		1.460688123	0.00256612	0.014221127
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]	1.461224699	0.00086109	0.005943755

ENSMMUG0000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	1.462073636	5.98E-08	1.49E-06
ENSMMUG00000054072		1.464606776	5.03E-11	2.20E-09
ENSMMUG00000048621	enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]	1.468195542	0.000480883	0.003649587
ENSMMUG00000065005	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.468511231	1.13E-05	0.000150217
ENSMMUG00000060901		1.468588567	2.98E-14	2.18E-12
ENSMMUG00000022207	phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]	1.469955066	0.000751268	0.00530182
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	1.470834031	1.88E-12	1.05E-10
ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	1.474067214	1.28E-07	2.95E-06
ENSMMUG00000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	1.478601423	1.73E-05	0.000216683
ENSMMUG00000003098	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]	1.481605772	3.99E-11	1.76E-09
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	1.481643284	1.73E-06	2.86E-05
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	1.482671753	0.000227112	0.001973731
ENSMMUG00000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	1.482989415	9.47E-09	2.78E-07
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	1.484816347	4.17E-06	6.26E-05
ENSMMUG00000054942		1.485326157	0.007425343	0.032947724
ENSMMUG00000042407		1.485532877	0.005207031	0.024884038
ENSMMUG00000062063	melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]	1.485742259	3.37E-07	7.02E-06
ENSMMUG00000008200	Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]	1.487528378	0.000788326	0.005530749
ENSMMUG00000059671		1.490276171	4.75E-15	3.92E-13
ENSMMUG00000023636	importin 7 [Source:NCBI gene;Acc:704213]	1.491395908	0.000167373	0.001527791
ENSMMUG00000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	1.496105874	0.001621357	0.009906824
ENSMMUG00000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	1.498463794	1.24E-09	4.35E-08
ENSMMUG00000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	1.499905879	1.82E-05	0.000225268
ENSMMUG00000017660		1.502952553	7.42E-09	2.23E-07
ENSMMUG00000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]	1.504170269	1.02E-21	2.26E-19
ENSMMUG00000048190	U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]	1.504472763	0.001048019	0.006950914
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	1.50651044	2.24E-11	1.05E-09
ENSMMUG00000050739		1.506895128	0.00765215	0.033729168
ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	1.509235982	0.003068188	0.016367913
ENSMMUG00000007401	arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]	1.509280019	4.50E-07	8.97E-06
ENSMMUG00000004512	Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]	1.509623647	6.15E-05	0.000645437
ENSMMUG00000005440	ELMO domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72109]	1.510446703	0.002147822	0.012354619
ENSMMUG00000021079	NME/NM23 family member 7 [Source:VGNC Symbol;Acc:VGNC:75221]	1.510554717	0.000272668	0.002293244
ENSMMUG00000056555		1.511941559	4.64E-10	1.77E-08
ENSMMUG00000000023	prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]	1.512915759	6.59E-07	1.23E-05
ENSMMUG00000049600		1.513595434	0.008887568	0.038089762
ENSMMUG00000049894		1.514500994	0.00548745	0.025862928
ENSMMUG00000061139		1.51644715	0.008031875	0.035182784
ENSMMUG00000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	1.516988338	1.70E-09	5.81E-08
ENSMMUG00000004520	NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]	1.52064889	1.49E-06	2.52E-05
ENSMMUG00000020597	acyl-CoA synthetase short chain family member 1 [Source:VGNC Symbol;Acc:VGNC:69416]	1.521720652	0.000601655	0.004431375
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]	1.522276775	3.21E-06	4.99E-05
ENSMMUG00000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	1.524359692	9.17E-12	4.56E-10
ENSMMUG00000008839	DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]	1.524531953	0.004213952	0.021204325
ENSMMUG00000005511	SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]	1.525298908	0.000241605	0.002075654
ENSMMUG00000001745	oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]	1.52530076	2.37E-07	5.11E-06
ENSMMUG00000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]	1.526249112	5.05E-09	1.56E-07
ENSMMUG00000058110		1.527932133	0.000996011	0.006682478
ENSMMUG00000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	1.529853972	8.02E-06	0.000110902
ENSMMUG00000004028	kelch repeat and BTB domain containing 13 [Source:VGNC Symbol;Acc:VGNC:73953]	1.531484612	0.004130393	0.020871347
ENSMMUG00000060437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.535303042	0.002986304	0.015994622

ENSMMUG00000010826	ral guanine nucleotide dissociation stimulator like 3 [Source:VGNC Symbol;Acc:VGNC:76869]	1.536352323	5.60E-05	0.000593111
ENSMMUG00000044545	apolipoprotein A1 [Source:NCBI gene;Acc:696969]	1.536569389	0.000362734	0.002903782
ENSMMUG00000023797	post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]	1.536913617	0.005357426	0.025410114
ENSMMUG00000003658	autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]	1.543811743	5.04E-05	0.000541927
ENSMMUG00000004255	YLP motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79092]	1.546061424	9.67E-05	0.000955906
ENSMMUG00000020185	voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]	1.546944412	0.001920405	0.011329444
ENSMMUG00000003827	albumin [Source:VGNC Symbol;Acc:VGNC:69782]	1.547442884	8.94E-08	2.12E-06
ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	1.549218942	1.04E-08	3.03E-07
ENSMMUG00000062702		1.550835237	0.007579565	0.033483167
ENSMMUG00000053013		1.551828353	0.000100047	0.000983716
ENSMMUG00000056266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.552355686	0.002052874	0.011915671
ENSMMUG00000005086	homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]	1.552691367	4.80E-05	0.000518981
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]	1.55310291	0.000918813	0.006255658
ENSMMUG00000052047		1.55666358	8.72E-07	1.56E-05
ENSMMUG00000010824	SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]	1.558916127	0.000406943	0.003170823
ENSMMUG00000022246	PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]	1.561720482	1.11E-06	1.94E-05
ENSMMUG00000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]	1.563834056	2.30E-14	1.70E-12
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	1.565405438	0.00032027	0.002616337
ENSMMUG00000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	1.565825345	1.68E-07	3.78E-06
ENSMMUG00000012538	ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]	1.567890959	6.14E-07	1.16E-05
ENSMMUG00000054449	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.567928245	0.008754845	0.037647406
ENSMMUG00000062522		1.569873385	1.82E-07	4.07E-06
ENSMMUG00000010526	calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]	1.571246718	2.12E-05	0.000258336
ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.573207181	1.55E-06	2.61E-05
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	1.573775109	7.66E-08	1.84E-06
ENSMMUG00000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.574297583	2.68E-08	7.13E-07
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	1.574801516	3.47E-07	7.18E-06
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]	1.574878428	4.37E-05	0.000479059
ENSMMUG00000012065	tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]	1.575631186	3.63E-09	1.15E-07
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	1.576737513	4.10E-10	1.58E-08
ENSMMUG00000030389		1.57722386	0.00041538	0.003228156
ENSMMUG00000060399	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.578588355	0.0027858	0.015192504
ENSMMUG00000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	1.579823119	0.009392585	0.039874371
ENSMMUG00000037243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.580077283	0.000182606	0.0016411
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	1.581500046	6.97E-17	7.73E-15
ENSMMUG00000021436	latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]	1.582845399	3.93E-07	8.01E-06
ENSMMUG00000052780		1.58373654	4.49E-09	1.40E-07
ENSMMUG00000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]	1.583899276	0.000153863	0.001424009
ENSMMUG00000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	1.584768789	0.002025576	0.011775872
ENSMMUG00000020580	RPGRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]	1.586514978	0.00023189	0.002005139
ENSMMUG00000052777		1.587482966	0.00618375	0.028439552
ENSMMUG00000008383	major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]	1.588230708	1.37E-06	2.35E-05
ENSMMUG00000003976	glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]	1.588771428	7.84E-09	2.35E-07
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	1.590289845	1.41E-06	2.39E-05
ENSMMUG00000061896		1.590729771	8.74E-05	0.000882859
ENSMMUG00000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	1.592114203	5.75E-07	1.10E-05
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	1.592904948	5.97E-10	2.23E-08
ENSMMUG00000010008	IK cytokine [Source:VGNC Symbol;Acc:VGNC:73703]	1.596829265	0.000193277	0.001723516
ENSMMUG00000016480	CaM kinase like vesicle associated [Source:VGNC Symbol;Acc:VGNC:70663]	1.597373339	3.58E-07	7.39E-06
ENSMMUG00000001761	myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]	1.597375644	7.27E-11	3.11E-09
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]	1.597480322	8.00E-05	0.000816538

ENSMMUG0000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	1.597563054	1.25E-06	2.17E-05
ENSMMUG00000053516		1.598601676	9.88E-05	0.00097435
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	1.601382004	5.24E-22	1.21E-19
ENSMMUG00000063988		1.603185034	0.003132413	0.016665382
ENSMMUG00000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.606467695	2.80E-07	5.99E-06
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	1.607053286	4.23E-07	8.53E-06
ENSMMUG00000065094		1.611318196	0.004657064	0.022773787
ENSMMUG00000003830	alpha fetoprotein [Source:VGNC Symbol;Acc:VGNC:69741]	1.614372307	0.003217468	0.017066543
ENSMMUG00000043134	coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]	1.617665658	4.47E-05	0.000488628
ENSMMUG00000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]	1.624113005	4.03E-16	3.77E-14
ENSMMUG00000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	1.624571861	7.26E-08	1.77E-06
ENSMMUG00000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]	1.626611968	2.78E-24	8.13E-22
ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]	1.627449538	0.000171175	0.00155538
ENSMMUG00000020979	inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]	1.627630276	4.92E-12	2.56E-10
ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]	1.627782269	4.33E-05	0.000475274
ENSMMUG00000003739	mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]	1.628614243	0.002359047	0.013307558
ENSMMUG00000053257	Y RNA [Source:RFAM;Acc:RF00019]	1.632808404	6.78E-09	2.06E-07
ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	1.634968839	2.52E-09	8.27E-08
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	1.636542332	2.02E-07	4.48E-06
ENSMMUG00000057454	transmembrane protein 160 [Source:NCBI gene;Acc:716996]	1.640663527	0.000249782	0.002129102
ENSMMUG00000017450	MOB kinase activator 2 [Source:NCBI gene;Acc:720951]	1.642844503	0.010973802	0.045115775
ENSMMUG00000064824	gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]	1.6475122	0.002122673	0.012239351
ENSMMUG00000060760		1.647782773	1.12E-05	0.000149264
ENSMMUG00000020177	membrane spanning 4-domains A4A [Source:NCBI gene;Acc:698027]	1.647811065	0.002228353	0.012683819
ENSMMUG00000062037	stannin [Source:NCBI gene;Acc:711909]	1.649771116	0.004323083	0.021617219
ENSMMUG00000022513	glutamate metabotropic receptor 3 [Source:VGNC Symbol;Acc:VGNC:73287]	1.650408118	2.58E-05	0.000305907
ENSMMUG00000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	1.65075502	2.14E-11	1.01E-09
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.650755525	1.34E-07	3.06E-06
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	1.652487232	7.33E-10	2.72E-08
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	1.653856636	6.75E-06	9.49E-05
ENSMMUG00000062254		1.654637095	0.004726979	0.023049794
ENSMMUG00000048744		1.662152341	0.011033465	0.045298863
ENSMMUG00000011965	coiled-coil domain containing 175 [Source:VGNC Symbol;Acc:VGNC:84317]	1.6645566	0.006617558	0.029962903
ENSMMUG00000060555		1.665764627	3.60E-05	0.00040861
ENSMMUG00000050405		1.666216276	6.69E-05	0.000696651
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	1.667650274	5.85E-10	2.20E-08
ENSMMUG00000057283		1.667675769	0.000397984	0.003120861
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	1.669612848	3.58E-06	5.46E-05
ENSMMUG00000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	1.672778644	6.75E-23	1.68E-20
ENSMMUG00000012787	acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]	1.673215833	0.00174308	0.010442787
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	1.674193485	9.53E-07	1.70E-05
ENSMMUG00000010309	septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]	1.678275051	0.000599733	0.004425387
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.679282532	2.75E-16	2.73E-14
ENSMMUG00000039266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.681284977	0.009192294	0.0391629
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	1.681939679	2.03E-06	3.28E-05
ENSMMUG00000042855	zinc finger SWIM-type containing 1 [Source:NCBI gene;Acc:717180]	1.683093135	0.000529967	0.003990486
ENSMMUG00000051975		1.683140831	0.000288459	0.002397356
ENSMMUG00000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	1.683748307	0.000234863	0.002027914
ENSMMUG00000009816	exosome component 9 [Source:VGNC Symbol;Acc:VGNC:72477]	1.684937856	0.004231242	0.021264524
ENSMMUG00000017906	DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]	1.685574998	0.001422	0.008878974
ENSMMUG00000019546	regucalcin [Source:VGNC Symbol;Acc:VGNC:76912]	1.686936453	0.001314319	0.008354717

ENSMMUG00000008197	netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]	1.689499074	0.004429489	0.022011436
ENSMMUG00000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.694006874	8.97E-17	9.60E-15
ENSMMUG00000059932	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.694277108	0.002949251	0.015852883
ENSMMUG00000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	1.695480673	3.93E-05	0.000439018
ENSMMUG00000010881	cytochrome P450, family 26, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:699519]	1.698813025	0.005197078	0.024856311
ENSMMUG00000050419	ADAM metalloproteinase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]	1.703046511	2.18E-05	0.000265328
ENSMMUG00000008964	D-glutamate cyclase [Source:VGNC Symbol;Acc:VGNC:71685]	1.707666705	0.000457029	0.003499603
ENSMMUG00000056158		1.7088224	0.000841993	0.005835481
ENSMMUG00000061606	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.708829424	0.008648798	0.037271681
ENSMMUG00000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]	1.711338137	1.47E-31	1.60E-28
ENSMMUG00000061833	transmembrane protein 251 [Source:NCBI gene;Acc:708131]	1.711946631	2.86E-05	0.000333766
ENSMMUG00000010137	microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]	1.712711308	0.000111514	0.001077014
ENSMMUG00000049551		1.713545017	0.000376508	0.002986538
ENSMMUG00000039292		1.713564722	1.98E-06	3.21E-05
ENSMMUG00000023622	BCR activator of RhoGEF and GTPase [Source:NCBI gene;Acc:709258]	1.713923466	5.14E-05	0.000551721
ENSMMUG00000053976	bile acid-CoA:amino acid N-acyltransferase [Source:NCBI gene;Acc:100429419]	1.717061502	1.38E-06	2.36E-05
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	1.717224444	9.57E-05	0.00094902
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	1.722070328	1.46E-08	4.11E-07
ENSMMUG00000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.722576392	6.66E-08	1.65E-06
ENSMMUG00000010007	CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]	1.724242217	0.001375548	0.008643001
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	1.725040485	1.58E-05	0.000200555
ENSMMUG00000056741	ovostatin-like [Source:NCBI gene;Acc:722294]	1.725756333	0.006589661	0.029870468
ENSMMUG00000014699		1.728891521	1.66E-20	3.21E-18
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]	1.729344204	0.0002913	0.002415937
ENSMMUG00000013160	DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]	1.729599856	0.001129356	0.007366651
ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]	1.732350258	7.73E-10	2.85E-08
ENSMMUG00000061194		1.735484644	6.74E-07	1.25E-05
ENSMMUG00000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.738327182	1.22E-05	0.000159795
ENSMMUG00000006766	RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]	1.74176354	1.77E-06	2.91E-05
ENSMMUG00000054225	taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]	1.742136663	0.005486735	0.025862928
ENSMMUG00000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	1.747615419	9.59E-05	0.000949495
ENSMMUG00000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]	1.748302517	2.56E-05	0.00030428
ENSMMUG00000007729	ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]	1.751067131	7.82E-06	0.000108311
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	1.751271767	8.45E-19	1.25E-16
ENSMMUG00000008518	phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]	1.751832203	6.23E-14	4.44E-12
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]	1.758326945	2.20E-09	7.30E-08
ENSMMUG00000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	1.762078919	3.18E-28	1.65E-25
ENSMMUG00000061151		1.762803219	5.06E-05	0.000543738
ENSMMUG00000009583	COP9 signalosome subunit 7A [Source:VGNC Symbol;Acc:VGNC:71185]	1.768153691	0.002125557	0.012250081
ENSMMUG00000061079	golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]	1.768835967	3.52E-20	6.38E-18
ENSMMUG00000013330	ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]	1.772744185	6.39E-07	1.20E-05
ENSMMUG00000061797	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.77452137	0.001583405	0.009704637
ENSMMUG00000060761		1.774959149	3.49E-08	9.04E-07
ENSMMUG00000003750	PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]	1.777044708	5.88E-05	0.000620024
ENSMMUG00000018011	sphingosine kinase 1 [Source:VGNC Symbol;Acc:VGNC:77858]	1.777371242	0.002861373	0.015484773
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	1.777565932	3.68E-05	0.000416604
ENSMMUG00000055126		1.778077322	1.59E-07	3.58E-06
ENSMMUG00000029034	defensin beta 136 [Source:VGNC Symbol;Acc:VGNC:71826]	1.781977436	0.002725164	0.014945945
ENSMMUG00000017627	B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	1.783074189	5.41E-16	4.95E-14
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	1.78313231	2.01E-09	6.73E-08
ENSMMUG00000064557		1.784540583	3.31E-14	2.40E-12

ENSMMUG0000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]	1.78558422	2.21E-07	4.87E-06
ENSMMUG00000064707		1.785918586	5.17E-05	0.000554719
ENSMMUG00000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	1.785934323	3.05E-09	9.85E-08
ENSMMUG00000003902	thrombospondin 3 [Source:VGNC Symbol;Acc:VGNC:78345]	1.789849692	3.78E-05	0.000425197
ENSMMUG00000017654	arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]	1.790100975	0.001877471	0.011119978
ENSMMUG00000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]	1.790489829	1.78E-13	1.17E-11
ENSMMUG00000009201	abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]	1.791945047	4.87E-06	7.13E-05
ENSMMUG00000053457	caspase 14 [Source:NCBI gene;Acc:718049]	1.797075538	0.002239493	0.012729077
ENSMMUG00000010314	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:VGNC Symbol;Acc:VGNC:73238]	1.799470424	3.83E-05	0.000429419
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]	1.801718532	5.17E-13	3.19E-11
ENSMMUG00000057687		1.802559554	1.56E-10	6.46E-09
ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	1.804913637	2.82E-11	1.28E-09
ENSMMUG00000006758	cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]	1.806642449	0.001014475	0.006779772
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	1.806851351	1.37E-15	1.20E-13
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]	1.815290897	2.47E-11	1.15E-09
ENSMMUG00000004516	apolipoprotein A2 [Source:NCBI gene;Acc:719946]	1.819165066	0.00363444	0.018932604
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	1.819663323	7.77E-18	9.90E-16
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	1.819907655	2.43E-15	2.09E-13
ENSMMUG00000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]	1.82383815	2.45E-19	3.86E-17
ENSMMUG00000063238		1.824576629	0.010648634	0.044142622
ENSMMUG00000054960		1.825176371	6.47E-05	0.000675998
ENSMMUG00000020020	Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]	1.825472619	4.31E-05	0.00047305
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]	1.826709337	7.67E-12	3.84E-10
ENSMMUG00000009884	hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]	1.827406446	8.79E-05	0.000885788
ENSMMUG00000064928		1.827764462	0.004133837	0.020871347
ENSMMUG00000006997	thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]	1.831459956	1.97E-14	1.48E-12
ENSMMUG00000055811		1.831469691	4.71E-06	6.93E-05
ENSMMUG00000012178	calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]	1.832057883	1.40E-11	6.89E-10
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]	1.833824998	8.50E-13	5.04E-11
ENSMMUG00000018600	myosin light chain 4 [Source:VGNC Symbol;Acc:VGNC:75105]	1.838221483	0.00812704	0.035521692
ENSMMUG00000054414		1.839635285	9.18E-07	1.64E-05
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	1.84000725	1.94E-09	6.51E-08
ENSMMUG00000013713	beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]	1.845385288	4.23E-05	0.000465267
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	1.848186758	4.06E-16	3.77E-14
ENSMMUG00000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	1.8489098	3.01E-08	7.90E-07
ENSMMUG00000012001	transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]	1.849866545	1.69E-12	9.58E-11
ENSMMUG00000005380	zinc finger protein 827 [Source:NCBI gene;Acc:706018]	1.853547786	7.11E-08	1.74E-06
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	1.854835739	1.75E-06	2.87E-05
ENSMMUG00000063639		1.856593126	9.13E-09	2.69E-07
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]	1.857062475	1.30E-09	4.56E-08
ENSMMUG00000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	1.868485104	6.85E-29	4.32E-26
ENSMMUG00000023045	zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]	1.870608833	0.000255607	0.002171026
ENSMMUG00000059778		1.875599278	0.004058656	0.020613428
ENSMMUG00000022116	PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]	1.875843484	0.00064355	0.004676674
ENSMMUG00000060795		1.878339107	0.002076842	0.012033025
ENSMMUG00000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	1.879319349	2.81E-06	4.41E-05
ENSMMUG00000052891		1.882667295	4.43E-13	2.78E-11
ENSMMUG00000058592		1.882742873	2.49E-06	3.96E-05
ENSMMUG00000055834		1.882904937	0.004870664	0.023596713
ENSMMUG00000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	1.884783565	6.30E-09	1.92E-07
ENSMMUG00000022785	solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]	1.886846577	0.006991371	0.031382555

ENSMMUG00000051852	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.889435337	0.000160261	0.001475239
ENSMMUG00000058557		1.891995245	1.17E-06	2.04E-05
ENSMMUG00000020190	valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]	1.892752115	5.63E-07	1.08E-05
ENSMMUG00000049542		1.896493235	2.73E-05	0.000321504
ENSMMUG00000014876	nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]	1.897610253	3.72E-07	7.64E-06
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	1.897611484	4.84E-05	0.000522856
ENSMMUG00000063121		1.904889847	7.32E-05	0.000755528
ENSMMUG00000055441		1.906485711	0.000438962	0.003376371
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	1.909042142	4.70E-06	6.92E-05
ENSMMUG00000020679	myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]	1.91002146	5.77E-11	2.50E-09
ENSMMUG00000009184	myelin protein zero like 1 [Source:NCBI gene;Acc:698437]	1.91156562	7.01E-08	1.72E-06
ENSMMUG00000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]	1.917022064	2.19E-05	0.000266237
ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	1.919528749	2.32E-09	7.66E-08
ENSMMUG00000018345	phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	1.922535035	6.78E-07	1.25E-05
ENSMMUG00000056939		1.924081255	0.010542151	0.043767624
ENSMMUG00000064321		1.933017287	5.31E-07	1.04E-05
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	1.933410609	4.48E-05	0.000489437
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	1.936871297	7.88E-15	6.25E-13
ENSMMUG00000062863		1.938440158	3.69E-06	5.60E-05
ENSMMUG00000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	1.941931262	7.78E-13	4.68E-11
ENSMMUG00000045513		1.943403176	9.47E-06	0.000128812
ENSMMUG00000051925		1.946789007	1.10E-05	0.000147856
ENSMMUG00000003591	pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]	1.947364025	0.000655061	0.00475167
ENSMMUG00000009199	glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]	1.957742913	5.71E-07	1.10E-05
ENSMMUG00000009684	kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]	1.963792304	2.90E-09	9.43E-08
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	1.963865948	2.43E-06	3.88E-05
ENSMMUG00000057231	T-box transcription factor 21 [Source:NCBI gene;Acc:694044]	1.969282544	1.07E-18	1.57E-16
ENSMMUG00000058013	melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]	1.973797928	7.17E-07	1.31E-05
ENSMMUG00000021877	protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]	1.97983436	0.000476643	0.003626607
ENSMMUG00000008536	mitogen-activated protein kinase 7 [Source:VGNC Symbol;Acc:VGNC:74648]	1.982019227	0.003583458	0.018719485
ENSMMUG00000061845		1.982586577	1.64E-05	0.000206643
ENSMMUG00000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	1.983885721	8.57E-14	5.97E-12
ENSMMUG00000011650	dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]	1.984760105	6.76E-07	1.25E-05
ENSMMUG00000014720	NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]	1.987340029	5.27E-06	7.63E-05
ENSMMUG00000004498	protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]	1.988026517	4.71E-05	0.000509443
ENSMMUG00000003629	phosphatidylinositol 4-kinase type 2 beta [Source:NCBI gene;Acc:693561]	1.989987549	0.00034525	0.002784319
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]	1.990123533	1.33E-08	3.77E-07
ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]	1.992114765	5.28E-07	1.03E-05
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]	1.993185383	3.99E-16	3.76E-14
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	1.993841642	7.83E-17	8.45E-15
ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]	1.994128056	0.000608994	0.004468938
ENSMMUG00000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	1.994218037	2.83E-05	0.000330899
ENSMMUG00000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	1.99553889	1.51E-23	3.92E-21
ENSMMUG00000056024		1.996862295	2.33E-21	4.90E-19
ENSMMUG00000006836	chloride channel accessory 1 [Source:NCBI gene;Acc:574295]	1.997667025	5.33E-06	7.71E-05
ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]	1.99857323	0.000269014	0.002272014
ENSMMUG00000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]	2.002835271	2.61E-11	1.20E-09
ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]	2.004575292	1.15E-08	3.30E-07
ENSMMUG00000019032	EMAP like 2 [Source:NCBI gene;Acc:715009]	2.005920481	1.39E-09	4.85E-08
ENSMMUG00000045654	tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]	2.007920515	0.001099642	0.007231915
ENSMMUG00000028906	Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]	2.008274248	0.000659272	0.004773542

ENSMMUG00000010180	PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	2.008601864	0.000134096	0.001265512
ENSMMUG00000060289		2.009927191	2.10E-24	6.27E-22
ENSMMUG00000059182		2.010034226	1.15E-06	2.01E-05
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	2.013143908	3.51E-12	1.88E-10
ENSMMUG00000013450	TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]	2.013579877	0.000539365	0.004044729
ENSMMUG00000052637	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.015910372	0.002187316	0.012515667
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	2.017555763	0.010276783	0.042838412
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]	2.023467287	2.61E-06	4.13E-05
ENSMMUG00000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]	2.024804478	2.35E-05	0.0002826
ENSMMUG00000061098		2.026834584	1.20E-38	3.60E-35
ENSMMUG00000007726	synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]	2.029178184	0.000115484	0.001105548
ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]	2.029669798	9.58E-09	2.80E-07
ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	2.03302428	1.73E-08	4.77E-07
ENSMMUG00000014076	AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]	2.035576167	1.66E-06	2.75E-05
ENSMMUG00000049265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.038260771	0.000706978	0.005048761
ENSMMUG00000004283	calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]	2.039923293	0.000674756	0.004861661
ENSMMUG00000060497		2.045164132	0.000894299	0.00613409
ENSMMUG00000039943	adenylate cyclase 9 [Source:NCBI gene;Acc:706789]	2.05139781	0.002103926	0.012166403
ENSMMUG00000009988	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	2.054639318	2.88E-16	2.80E-14
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	2.055213627	1.72E-12	9.72E-11
ENSMMUG00000006079	leucine rich repeat containing 19 [Source:VGNC Symbol;Acc:VGNC:74337]	2.056351207	0.00940134	0.039897397
ENSMMUG00000005482	lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]	2.056564284	0.000592353	0.004376326
ENSMMUG00000000566		2.056752433	0.003595928	0.018764631
ENSMMUG00000023477		2.057422508	1.88E-22	4.42E-20
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	2.05843829	1.35E-23	3.59E-21
ENSMMUG00000009953	ninein like [Source:VGNC Symbol;Acc:VGNC:75273]	2.059178261	5.96E-10	2.23E-08
ENSMMUG00000060517		2.063921368	8.34E-11	3.51E-09
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	2.066841648	1.52E-16	1.57E-14
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	2.067382461	4.19E-06	6.27E-05
ENSMMUG00000019690	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	2.067732374	1.77E-05	0.000219527
ENSMMUG00000062326		2.069200865	7.51E-08	1.81E-06
ENSMMUG00000050495		2.073238527	0.002407317	0.013522527
ENSMMUG00000061923		2.077065864	0.001828505	0.010886028
ENSMMUG00000010521	ADP ribosylation factor like GTPase 5A [Source:VGNC Symbol;Acc:VGNC:70017]	2.078385809	0.009129943	0.038917991
ENSMMUG00000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	2.080069631	8.47E-14	5.93E-12
ENSMMUG00000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.080368129	6.72E-06	9.46E-05
ENSMMUG00000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]	2.084511045	8.92E-13	5.26E-11
ENSMMUG00000007208	G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]	2.088292533	1.26E-06	2.18E-05
ENSMMUG00000048215		2.091460054	0.002618024	0.014468599
ENSMMUG00000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]	2.093731738	7.97E-11	3.37E-09
ENSMMUG00000037641	chondrosarcoma-associated gene 2/3 protein [Source:NCBI gene;Acc:106992305]	2.096745837	0.010745058	0.044434673
ENSMMUG00000019764	dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]	2.097328198	5.95E-12	3.03E-10
ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]	2.101422498	1.76E-10	7.14E-09
ENSMMUG00000029420		2.101877984	1.90E-05	0.000234228
ENSMMUG00000006659	aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]	2.109351262	3.13E-05	0.000360658
ENSMMUG00000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	2.111358931	2.20E-09	7.30E-08
ENSMMUG00000058536		2.111908987	5.30E-12	2.72E-10
ENSMMUG00000062454		2.112957362	6.51E-14	4.58E-12
ENSMMUG00000002397	GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]	2.114851357	1.86E-08	5.10E-07
ENSMMUG00000061474		2.116144757	0.000315564	0.002579655
ENSMMUG00000059299	membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]	2.117493036	0.003759503	0.019457132

ENSMMUG00000057570		2.118622417	3.74E-08	9.64E-07
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	2.119425229	7.92E-09	2.36E-07
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	2.120034143	1.79E-05	0.000221851
ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]	2.123019241	3.53E-11	1.58E-09
ENSMMUG00000032659	mml-mir-711 [Source:miRBase;Acc:MI0012553]	2.126941543	0.000889957	0.006107806
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	2.132582904	2.94E-18	4.00E-16
ENSMMUG00000016434	NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]	2.132776735	2.91E-05	0.000338157
ENSMMUG00000020743	centrin 2 [Source:NCBI gene;Acc:693376]	2.139833942	0.004604765	0.022638205
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	2.141052584	5.83E-11	2.52E-09
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	2.142819551	1.28E-08	3.65E-07
ENSMMUG00000058715		2.154093117	0.000589147	0.004355327
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	2.154261514	2.51E-07	5.40E-06
ENSMMUG00000002563	zinc finger DHHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]	2.155398618	0.000163516	0.00149829
ENSMMUG00000064799		2.156298963	0.004488179	0.022247698
ENSMMUG00000016069	cubilin [Source:VGNC Symbol;Acc:VGNC:82132]	2.156835701	3.69E-05	0.000417213
ENSMMUG00000059472	filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]	2.157497843	1.76E-08	4.84E-07
ENSMMUG00000001409	coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]	2.157702947	6.93E-17	7.73E-15
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	2.161558469	6.50E-15	5.26E-13
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	2.164350666	9.78E-20	1.62E-17
ENSMMUG00000016929	proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]	2.169511497	0.000800677	0.005607552
ENSMMUG00000060581		2.169905986	0.002892126	0.015594824
ENSMMUG00000001475	transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]	2.175148956	0.002870078	0.015510852
ENSMMUG00000025918	small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]	2.176815211	0.005839437	0.027190162
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	2.179404595	4.41E-29	3.11E-26
ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]	2.181689531	1.16E-05	0.000153923
ENSMMUG00000013452	canopy FGF signaling regulator 4 [Source:VGNC Symbol;Acc:VGNC:71364]	2.182829297	0.007897626	0.034683524
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	2.185895191	1.05E-11	5.20E-10
ENSMMUG00000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	2.1870948	7.31E-15	5.88E-13
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	2.188309794	1.02E-12	5.91E-11
ENSMMUG00000064229		2.190001141	0.000191217	0.001708968
ENSMMUG00000023598	sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]	2.193779093	0.002323335	0.013130847
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.19477951	1.13E-05	0.000150381
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]	2.195330747	1.29E-14	9.83E-13
ENSMMUG00000001324	tetraspanin 32 [Source:VGNC Symbol;Acc:VGNC:78920]	2.197646981	0.011357537	0.046233128
ENSMMUG00000054237	Y RNA [Source:RFAM;Acc:RF00019]	2.19965574	0.002025248	0.011775872
ENSMMUG00000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	2.202623043	2.75E-16	2.73E-14
ENSMMUG00000064915	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.204248815	0.002040158	0.011849143
ENSMMUG00000004042	Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]	2.208473372	0.001563221	0.009610439
ENSMMUG00000016593	adaptor related protein complex 1 subunit mu 2 [Source:NCBI gene;Acc:720531]	2.210434287	0.006493667	0.029567525
ENSMMUG00000058423		2.215665678	2.70E-05	0.00031866
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.219292869	1.47E-28	8.40E-26
ENSMMUG00000013740	minichromosome maintenance 8 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:74516]	2.231338833	9.43E-06	0.000128419
ENSMMUG00000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	2.232381438	1.62E-13	1.08E-11
ENSMMUG00000049678		2.237823223	2.90E-07	6.14E-06
ENSMMUG00000013251	xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]	2.240414525	0.000757739	0.005334912
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	2.244440617	3.35E-11	1.50E-09
ENSMMUG00000055710	taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]	2.244490143	5.27E-05	0.000562381
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	2.246455608	5.24E-23	1.34E-20
ENSMMUG00000037175	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.25054251	4.87E-06	7.13E-05
ENSMMUG00000064554	leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]	2.255285013	0.000365699	0.002917797
ENSMMUG00000011633	kallikrein B1 [Source:VGNC Symbol;Acc:VGNC:74195]	2.257277396	0.003353456	0.017637677

ENSMMUG00000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.257608163	3.29E-16	3.15E-14
ENSMMUG0000007010	coiled-coil domain-containing protein 162-like [Source:NCBI gene;Acc:700544]	2.260008342	0.00182447	0.010870571
ENSMMUG00000014237	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	2.264208721	1.04E-31	1.24E-28
ENSMMUG00000049391		2.264933315	0.000836416	0.005803548
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]	2.269800985	2.08E-17	2.54E-15
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	2.270020954	5.36E-28	2.67E-25
ENSMMUG00000053106		2.276631003	3.51E-06	5.38E-05
ENSMMUG00000009361	fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]	2.276900191	6.31E-06	8.97E-05
ENSMMUG00000000827	ubiquitin specific peptidase 38 [Source:VGNC Symbol;Acc:VGNC:79224]	2.278384024	0.000220765	0.001925623
ENSMMUG00000005504	nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]	2.28056828	1.36E-05	0.00017617
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	2.283360162	7.12E-05	0.0007359
ENSMMUG00000016827	UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]	2.288569972	0.000460357	0.003520585
ENSMMUG00000054111	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.290800953	0.0063383	0.028961267
ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	2.29429483	3.70E-05	0.000417213
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]	2.29649889	1.38E-09	4.81E-08
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.296884268	2.85E-12	1.56E-10
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	2.297605056	2.97E-12	1.60E-10
ENSMMUG00000058935	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.299765928	0.002539985	0.014107623
ENSMMUG00000065295		2.300704998	6.03E-07	1.14E-05
ENSMMUG00000014349	integrin subunit alpha X [Source:NCBI gene;Acc:100427850]	2.307565718	1.94E-06	3.15E-05
ENSMMUG00000017242	MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]	2.307829581	1.51E-07	3.43E-06
ENSMMUG00000004616	plasminogen activator, urokinase receptor [Source:VGNC Symbol;Acc:VGNC:76163]	2.312873186	0.010012492	0.041926434
ENSMMUG00000057063	solute carrier family 6 member 14 [Source:NCBI gene;Acc:709598]	2.314666932	0.008684584	0.037358683
ENSMMUG00000000452	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]	2.315248731	0.00508581	0.024411889
ENSMMUG00000023192	choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]	2.317047448	1.15E-08	3.30E-07
ENSMMUG00000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]	2.319501132	1.72E-11	8.29E-10
ENSMMUG00000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	2.320053415	7.37E-18	9.60E-16
ENSMMUG00000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	2.320925969	1.68E-11	8.10E-10
ENSMMUG00000017971	nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]	2.321887439	0.000267001	0.002258193
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	2.323541124	1.02E-20	2.00E-18
ENSMMUG00000059374		2.334517414	1.52E-08	4.26E-07
ENSMMUG00000050844	BTB domain containing 18 [Source:NCBI gene;Acc:703264]	2.338238368	4.83E-06	7.08E-05
ENSMMUG00000001273	clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]	2.342502369	2.24E-07	4.91E-06
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	2.342733475	3.77E-16	3.59E-14
ENSMMUG00000018030	endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]	2.343650725	1.61E-09	5.51E-08
ENSMMUG00000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	2.34438586	0.00219388	0.012535264
ENSMMUG00000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	2.346976213	1.03E-05	0.000138442
ENSMMUG00000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	2.347825979	4.69E-08	1.19E-06
ENSMMUG000000049130		2.352739848	4.90E-21	9.95E-19
ENSMMUG00000059504		2.356217724	8.59E-06	0.000118021
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	2.357905299	4.39E-12	2.31E-10
ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]	2.358391458	5.68E-19	8.61E-17
ENSMMUG00000063525		2.358711555	8.79E-06	0.000120596
ENSMMUG00000017209	C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]	2.360766281	2.22E-05	0.000269138
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	2.365330921	4.42E-08	1.13E-06
ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	2.36870692	7.70E-29	4.61E-26
ENSMMUG00000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]	2.371422433	2.63E-20	4.93E-18
ENSMMUG00000008529	chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]	2.372173795	9.24E-08	2.19E-06
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.372782709	1.18E-08	3.38E-07
ENSMMUG00000028907	insulin receptor [Source:NCBI gene;Acc:706009]	2.377719979	0.000102986	0.001004148
ENSMMUG00000055906	angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]	2.378967978	0.000130168	0.0012333

ENSMMUG00000058326	neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]	2.380935234	0.00803108	0.035182784
ENSMMUG00000054211		2.382559208	0.000775187	0.005448145
ENSMMUG00000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	2.386677535	1.33E-16	1.38E-14
ENSMMUG00000019513	U2AF homology motif kinase 1 [Source:VGNC Symbol;Acc:VGNC:79198]	2.390366338	0.010862701	0.044751189
ENSMMUG00000040741	thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]	2.415876145	6.89E-17	7.73E-15
ENSMMUG00000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.42573812	2.50E-07	5.40E-06
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	2.425772849	5.01E-08	1.26E-06
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	2.428938587	0.002634097	0.014518993
ENSMMUG00000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	2.431760593	1.65E-14	1.24E-12
ENSMMUG00000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]	2.432455771	0.004772697	0.023225445
ENSMMUG00000009437	zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]	2.434242423	0.002350827	0.013267438
ENSMMUG00000003548	tectorin beta [Source:VGNC Symbol;Acc:VGNC:78306]	2.434891584	0.000103048	0.001004148
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	2.436482195	4.33E-10	1.66E-08
ENSMMUG00000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	2.437174134	9.54E-05	0.000946118
ENSMMUG00000002566	selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]	2.439871752	0.005635124	0.026444451
ENSMMUG000000053691	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.440432208	0.0109994	0.045174491
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	2.440644558	5.47E-20	9.63E-18
ENSMMUG00000017983	tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]	2.441067672	0.000433836	0.003344513
ENSMMUG00000015952	katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]	2.444405991	0.000144956	0.001350966
ENSMMUG00000005294	casein kinase 2 beta [Source:NCBI gene;Acc:715807]	2.445670539	5.27E-06	7.63E-05
ENSMMUG00000009667	zinc finger protein 385D [Source:VGNC Symbol;Acc:VGNC:79587]	2.450940937	0.006258221	0.028670491
ENSMMUG00000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	2.451275768	9.19E-10	3.35E-08
ENSMMUG000000057219	tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]	2.45171473	0.001361798	0.008570096
ENSMMUG000000051537		2.461958103	0.000364796	0.002912532
ENSMMUG00000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]	2.463283305	9.69E-06	0.000131221
ENSMMUG00000023060	A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]	2.463676498	1.36E-05	0.000175776
ENSMMUG00000044048	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.464222045	2.07E-08	5.65E-07
ENSMMUG00000017501	N-acyl ethanolamine acid amidase [Source:VGNC Symbol;Acc:VGNC:75068]	2.46938603	1.64E-05	0.000206643
ENSMMUG00000012349	thiosulfate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:78664]	2.474145153	0.004161871	0.020970891
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]	2.474550532	9.99E-10	3.56E-08
ENSMMUG00000012697	AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]	2.476141704	4.53E-13	2.82E-11
ENSMMUG000000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]	2.477436282	6.42E-09	1.96E-07
ENSMMUG00000009441	abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]	2.477930673	0.00041084	0.003197023
ENSMMUG00000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	2.482790608	2.30E-07	5.01E-06
ENSMMUG00000015716	protein phosphatase with EF-hand domain 2 [Source:VGNC Symbol;Acc:VGNC:76233]	2.483509695	0.0002724	0.002293244
ENSMMUG000000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.486026415	7.90E-07	1.43E-05
ENSMMUG00000012856	nuclear FMR1 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75422]	2.491771577	0.004255064	0.021366309
ENSMMUG000000052734		2.492765783	0.009832341	0.041389144
ENSMMUG00000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	2.493333969	6.60E-13	4.01E-11
ENSMMUG000000056063		2.496336393	0.001255782	0.008046679
ENSMMUG00000005303	apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]	2.502691945	0.000272323	0.002293244
ENSMMUG00000021019	E3 SUMO-protein ligase RanBP2 [Source:NCBI gene;Acc:694823]	2.505536847	0.003991237	0.020411242
ENSMMUG000000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.507508291	1.06E-07	2.47E-06
ENSMMUG000000053937		2.508346855	7.10E-17	7.73E-15
ENSMMUG00000007773	solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]	2.513301779	0.000751712	0.005301825
ENSMMUG00000014707	cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]	2.514998338	5.56E-06	8.01E-05
ENSMMUG000000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	2.516740958	4.97E-08	1.25E-06
ENSMMUG00000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	2.521519071	2.74E-12	1.50E-10
ENSMMUG00000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	2.52307558	9.51E-26	3.56E-23
ENSMMUG000000063914		2.523184571	2.94E-24	8.40E-22
ENSMMUG000000056605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.523371056	5.97E-05	0.000628859

ENSMMUG00000041519	zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]	2.52353227	0.000520978	0.003928989
ENSMMUG00000059432		2.5242475	0.003253476	0.017197297
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	2.527400306	1.05E-06	1.84E-05
ENSMMUG00000055038		2.530415021	5.77E-05	0.000610207
ENSMMUG00000043648		2.535268789	8.88E-06	0.000121628
ENSMMUG00000004774	maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]	2.540224332	1.90E-06	3.10E-05
ENSMMUG00000059332	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.545823222	0.000371554	0.002956632
ENSMMUG00000058472	late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]	2.547951764	5.56E-07	1.07E-05
ENSMMUG00000014032	proline rich 36 [Source:NCBI gene;Acc:710443]	2.54908616	0.002170365	0.012448413
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	2.550174372	3.48E-13	2.23E-11
ENSMMUG00000013176	NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]	2.551361604	4.84E-07	9.50E-06
ENSMMUG00000011634	coagulation factor XI [Source:VGNC Symbol;Acc:VGNC:72460]	2.554782998	0.000573686	0.004254157
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	2.556732251	5.52E-08	1.38E-06
ENSMMUG00000053460		2.559059274	6.38E-14	4.52E-12
ENSMMUG00000000152	transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]	2.559976164	4.37E-06	6.49E-05
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]	2.560589984	7.74E-15	6.18E-13
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	2.563047146	4.19E-07	8.46E-06
ENSMMUG00000042618	involucrin [Source:NCBI gene;Acc:713728]	2.567288485	9.83E-07	1.74E-05
ENSMMUG00000056511		2.57120054	4.52E-06	6.69E-05
ENSMMUG00000011637	coiled-coil domain containing 148 [Source:VGNC Symbol;Acc:VGNC:70856]	2.572893818	0.00196322	0.011525255
ENSMMUG00000057157		2.573092151	8.62E-10	3.16E-08
ENSMMUG00000055379		2.575664782	2.60E-19	3.98E-17
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	2.577920617	1.17E-32	1.55E-29
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]	2.588841748	8.71E-16	7.78E-14
ENSMMUG00000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	2.589965448	1.14E-26	4.86E-24
ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	2.593469566	2.46E-29	2.10E-26
ENSMMUG00000005108	RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]	2.594011233	5.64E-08	1.41E-06
ENSMMUG00000006980	septin 7 [Source:VGNC Symbol;Acc:VGNC:81759]	2.599820758	0.001673587	0.010151416
ENSMMUG00000006723	solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]	2.605474398	6.02E-18	7.92E-16
ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	2.608219884	1.54E-22	3.70E-20
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	2.609309763	2.81E-18	3.87E-16
ENSMMUG00000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	2.61289963	4.28E-13	2.70E-11
ENSMMUG00000063351	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.615238087	7.50E-06	0.000104214
ENSMMUG00000005293	G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]	2.617594939	2.26E-05	0.000272938
ENSMMUG00000056058	C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]	2.630151345	0.011924591	0.048019133
ENSMMUG00000025050	Y RNA [Source:RFAM;Acc:RF00019]	2.632263483	0.000395272	0.003106151
ENSMMUG00000064730		2.635939214	2.36E-15	2.05E-13
ENSMMUG00000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	2.638049339	2.78E-15	2.36E-13
ENSMMUG00000020080	GDNF family receptor alpha 1 [Source:VGNC Symbol;Acc:VGNC:72917]	2.638881521	0.004615666	0.022659735
ENSMMUG00000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	2.63959869	1.96E-21	4.20E-19
ENSMMUG00000040696	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.646938221	0.006172075	0.028396763
ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	2.649970522	2.30E-20	4.37E-18
ENSMMUG00000054621		2.652366119	0.005230809	0.024954737
ENSMMUG00000058534		2.65450581	4.14E-05	0.000457313
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	2.656919844	2.10E-06	3.39E-05
ENSMMUG00000062419		2.659113829	0.00431919	0.021615804
ENSMMUG00000014875	C2CD2 like [Source:VGNC Symbol;Acc:VGNC:70435]	2.662144157	0.000801682	0.005611307
ENSMMUG00000000826	storkhead box 1 [Source:VGNC Symbol;Acc:VGNC:78197]	2.667961406	0.00468641	0.022870599
ENSMMUG00000017927	protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]	2.669107659	6.56E-11	2.83E-09
ENSMMUG00000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	2.669592616	1.25E-26	5.15E-24
ENSMMUG00000052474		2.671253165	2.12E-14	1.57E-12

ENSMMUG00000003797	ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]	2.671760468	1.92E-07	4.27E-06
ENSMMUG00000009040	cornulin [Source:VGNC Symbol;Acc:VGNC:71397]	2.67616915	0.000308357	0.002529371
ENSMMUG00000016404	chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]	2.677239425	0.004528034	0.022361952
ENSMMUG00000017740	sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]	2.683325851	2.27E-06	3.63E-05
ENSMMUG00000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	2.684796919	2.94E-10	1.15E-08
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	2.690602934	2.84E-16	2.78E-14
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	2.697240389	0.000611412	0.004481194
ENSMMUG00000002330	ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]	2.700383265	2.62E-09	8.55E-08
ENSMMUG00000001545	aquaporin 7 [Source:NCBI gene;Acc:702836]	2.709398867	7.12E-08	1.74E-06
ENSMMUG00000053722		2.712241739	0.002561611	0.014202711
ENSMMUG00000049021	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.71339692	0.002634416	0.014518993
ENSMMUG00000058916		2.715302119	3.88E-11	1.72E-09
ENSMMUG00000023139	small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]	2.719450538	2.61E-13	1.70E-11
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	2.721587895	7.46E-11	3.18E-09
ENSMMUG00000019526	BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]	2.725655422	2.10E-11	9.92E-10
ENSMMUG00000000803	signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]	2.726557833	1.03E-14	8.03E-13
ENSMMUG00000060767		2.729277707	1.61E-07	3.62E-06
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]	2.737515292	0.008438708	0.036537227
ENSMMUG00000053601		2.744153132	0.001341851	0.008481826
ENSMMUG00000015555	ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]	2.746882453	8.23E-13	4.91E-11
ENSMMUG00000055571		2.746894065	0.005220691	0.024926891
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	2.748434019	3.66E-05	0.000414381
ENSMMUG00000022381	prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]	2.753076948	0.001100351	0.007232602
ENSMMUG00000017767	integrin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73784]	2.755575986	0.00513888	0.024607449
ENSMMUG00000015258	glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]	2.760352162	0.001598335	0.009786127
ENSMMUG00000043738		2.767412491	0.000171749	0.001558232
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	2.770974067	9.16E-13	5.38E-11
ENSMMUG00000016237	taxilin gamma [Source:NCBI gene;Acc:713769]	2.77616038	0.005958036	0.027645659
ENSMMUG00000064860	phosphoglycerate mutase 2 [Source:NCBI gene;Acc:720615]	2.776488811	0.004636077	0.022726837
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	2.781603357	1.91E-18	2.72E-16
ENSMMUG00000053781	Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]	2.782988195	1.80E-07	4.02E-06
ENSMMUG00000016737	contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]	2.784997453	0.007094933	0.031728496
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	2.786566362	1.50E-11	7.32E-10
ENSMMUG00000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]	2.795899595	3.84E-14	2.77E-12
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	2.800418772	2.24E-19	3.57E-17
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	2.808349715	1.02E-21	2.26E-19
ENSMMUG00000058095	visual system homeobox 1 [Source:NCBI gene;Acc:715973]	2.811123208	0.000208941	0.001838556
ENSMMUG00000021477	ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]	2.823015026	0.000149001	0.001383479
ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	2.829028452	2.29E-05	0.000276075
ENSMMUG00000058229	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.842681718	0.000669507	0.004830132
ENSMMUG00000038944		2.846054856	8.40E-20	1.42E-17
ENSMMUG00000034978	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.848323708	0.002735031	0.014980881
ENSMMUG00000018151	membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]	2.848831954	0.000614874	0.00449831
ENSMMUG00000064174		2.852438405	8.21E-07	1.48E-05
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]	2.867659315	2.69E-14	1.98E-12
ENSMMUG00000011095	BTB domain and CNC homolog 1 [Source:VGNC Symbol;Acc:VGNC:70217]	2.871402268	0.002428955	0.013634132
ENSMMUG00000008251	cilia and flagella associated protein 126 [Source:VGNC Symbol;Acc:VGNC:71150]	2.872640335	0.000897233	0.00614015
ENSMMUG00000055199	cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]	2.876284086	1.60E-08	4.45E-07
ENSMMUG00000014397	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	2.876433758	1.54E-11	7.46E-10
ENSMMUG00000061533		2.87796728	1.23E-24	3.87E-22
ENSMMUG00000061031		2.878133928	1.58E-12	9.03E-11

ENSMMUG00000056940	late cornified envelope protein 1C [Source:NCBI gene;Acc:713408]	2.885501878	0.00087154	0.006002049
ENSMMUG00000021357	zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]	2.893250026	9.07E-05	0.000908649
ENSMMUG00000051503	nuclear pore associated protein 1 [Source:NCBI gene;Acc:719891]	2.899269175	1.21E-05	0.000159491
ENSMMUG00000017503	SDA1 domain containing 1 [Source:NCBI gene;Acc:700863]	2.900995642	0.000166032	0.001519019
ENSMMUG00000056376		2.909332744	5.13E-18	6.90E-16
ENSMMUG00000038997	zygote arrest 1 like [Source:NCBI gene;Acc:100427970]	2.909582802	0.000678767	0.004879298
ENSMMUG00000023286	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	2.919049286	1.47E-19	2.38E-17
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]	2.928873146	4.82E-11	2.11E-09
ENSMMUG00000013283	cadherin related family member 2 [Source:NCBI gene;Acc:697249]	2.930177624	5.42E-10	2.04E-08
ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	2.93112977	7.06E-17	7.73E-15
ENSMMUG00000004435	two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]	2.941994703	3.54E-12	1.89E-10
ENSMMUG00000011914	prospero homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76427]	2.943879687	0.001535001	0.009485643
ENSMMUG00000047247	matrix Gla protein [Source:NCBI gene;Acc:574116]	2.945907041	0.001741864	0.010442787
ENSMMUG00000009308	histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]	2.94985125	0.000133392	0.001259855
ENSMMUG00000010837	VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]	2.964690842	0.000416114	0.003231765
ENSMMUG00000006853	crystallin beta B2 [Source:NCBI gene;Acc:100144420]	2.96919321	2.26E-07	4.93E-06
ENSMMUG00000053083	C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]	2.969845408	6.85E-07	1.26E-05
ENSMMUG00000057934		2.970440903	6.17E-06	8.79E-05
ENSMMUG00000057539		2.975791879	1.32E-07	3.03E-06
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	2.979300723	1.17E-14	8.99E-13
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	2.984044695	5.54E-29	3.68E-26
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	2.995078418	1.90E-65	2.28E-61
ENSMMUG00000051816	keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]	2.998483749	1.64E-14	1.24E-12
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	2.999701188	9.51E-10	3.42E-08
ENSMMUG00000050529	phosphodiesterase 6H [Source:NCBI gene;Acc:700447]	3.018785474	0.000118547	0.001131246
ENSMMUG00000056980		3.023459072	0.004008784	0.02046958
ENSMMUG00000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]	3.028559444	1.50E-06	2.54E-05
ENSMMUG00000010466	solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]	3.028720951	5.96E-14	4.27E-12
ENSMMUG00000017380	neuregulin 3 [Source:NCBI gene;Acc:699268]	3.032213523	0.004017598	0.020491803
ENSMMUG00000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	3.036396043	2.39E-25	7.95E-23
ENSMMUG00000060808		3.037745732	0.004288614	0.021489723
ENSMMUG00000050585		3.044462411	6.22E-12	3.16E-10
ENSMMUG00000054811		3.045392459	0.001014454	0.006779772
ENSMMUG00000005997	cell division cycle 14B [Source:NCBI gene;Acc:710300]	3.051055538	0.000131659	0.001246437
ENSMMUG00000003833	Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]	3.053955706	7.01E-13	4.24E-11
ENSMMUG00000051645		3.057033191	0.000149512	0.001386952
ENSMMUG00000054686		3.060850744	5.33E-12	2.73E-10
ENSMMUG00000031391	RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]	3.063623845	1.74E-09	5.91E-08
ENSMMUG00000062996		3.069028254	8.16E-06	0.00011275
ENSMMUG00000064401		3.073180126	0.00138282	0.008670496
ENSMMUG00000005625	fibrosin [Source:NCBI gene;Acc:712741]	3.079938129	0.000425549	0.003294363
ENSMMUG00000004749	PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]	3.087544875	0.002227363	0.012683819
ENSMMUG00000007534	protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]	3.091546942	9.97E-10	3.56E-08
ENSMMUG00000000376	bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]	3.095402213	4.69E-05	0.000508224
ENSMMUG00000015693	lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]	3.114498615	2.82E-08	7.44E-07
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	3.115672089	1.62E-08	4.49E-07
ENSMMUG00000053611	stromal cell derived factor 2 [Source:NCBI gene;Acc:716189]	3.116688468	0.001044448	0.006937498
ENSMMUG00000059175		3.135096878	3.47E-15	2.91E-13
ENSMMUG00000054746		3.146573219	0.000227269	0.001973731
ENSMMUG00000040071		3.150893053	1.50E-06	2.54E-05
ENSMMUG00000046918		3.151238439	4.84E-07	9.50E-06

ENSMMUG00000062794		3.151420506	1.68E-13	1.12E-11
ENSMMUG00000054634	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]	3.155698262	0.00451248	0.022321959
ENSMMUG00000005106	unc-45 myosin chaperone A [Source:VGNC Symbol;Acc:VGNC:79858]	3.156359201	0.002784203	0.015190711
ENSMMUG00000021476	BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]	3.156620477	1.93E-06	3.15E-05
ENSMMUG00000059700		3.172178728	0.003600383	0.018779697
ENSMMUG00000055266	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]	3.173205338	5.16E-07	1.01E-05
ENSMMUG00000053376		3.178164426	1.16E-15	1.03E-13
ENSMMUG00000057499		3.190964742	2.95E-09	9.54E-08
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	3.192924567	2.37E-57	1.42E-53
ENSMMUG00000019961	protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]	3.200492122	0.003388399	0.017798011
ENSMMUG00000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	3.202956719	1.68E-27	8.07E-25
ENSMMUG00000062092		3.206291302	0.005821697	0.027128655
ENSMMUG00000052453	serpin family A member 11 [Source:NCBI gene;Acc:701483]	3.207520433	0.00015943	0.001468734
ENSMMUG00000056184		3.210721956	9.04E-06	0.000123567
ENSMMUG00000002963	Rho GTPase activating protein 32 [Source:VGNC Symbol;Acc:VGNC:69855]	3.221015948	7.72E-10	2.85E-08
ENSMMUG00000013284	G protein regulated inducer of neurite outgrowth 1 [Source:VGNC Symbol;Acc:VGNC:72998]	3.233714525	0.003969802	0.020334622
ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.234404819	1.03E-09	3.65E-08
ENSMMUG00000057719		3.24485037	0.006070428	0.028014931
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]	3.259077295	7.92E-19	1.19E-16
ENSMMUG00000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	3.260462294	1.01E-13	6.93E-12
ENSMMUG00000060750	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.26812525	0.001672754	0.010151416
ENSMMUG00000065227		3.273785823	0.011966399	0.048138929
ENSMMUG00000057813		3.287168014	2.31E-08	6.26E-07
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	3.287743422	7.90E-52	3.15E-48
ENSMMUG00000005554	mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]	3.298517547	6.80E-12	3.44E-10
ENSMMUG00000056797		3.298961707	0.006672509	0.030182209
ENSMMUG00000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	3.303538197	0.002684711	0.014768993
ENSMMUG00000015468	checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]	3.311109012	1.27E-06	2.19E-05
ENSMMUG00000053627		3.311761301	0.000401751	0.003142634
ENSMMUG00000018549	zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]	3.316234142	1.44E-09	4.99E-08
ENSMMUG00000019306	indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]	3.331629035	0.002879463	0.015540538
ENSMMUG00000015329	MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]	3.334162263	1.37E-13	9.25E-12
ENSMMUG00000031100	membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]	3.345448829	2.51E-06	3.99E-05
ENSMMUG00000065319		3.345684073	0.00102299	0.006820916
ENSMMUG00000049755	leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]	3.346998954	1.20E-06	2.08E-05
ENSMMUG00000063913	endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]	3.347844983	0.000953627	0.006444377
ENSMMUG00000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	3.359920312	2.91E-11	1.32E-09
ENSMMUG00000021157	TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]	3.367112737	0.000419961	0.003257418
ENSMMUG00000064729	small proline rich protein 3 [Source:NCBI gene;Acc:713857]	3.394478772	0.010683657	0.044257171
ENSMMUG00000050543		3.402541222	3.17E-30	2.92E-27
ENSMMUG00000063346		3.404460633	0.001071833	0.007076227
ENSMMUG00000036060	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.426156008	0.00170348	0.010267173
ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]	3.429861636	3.91E-09	1.23E-07
ENSMMUG00000055918		3.448498186	0.000725726	0.0051611
ENSMMUG00000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	3.450637721	3.36E-20	6.20E-18
ENSMMUG00000001338	antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]	3.452131957	0.000372194	0.002959759
ENSMMUG00000033200	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	3.460984247	0.006338167	0.028961267
ENSMMUG00000003269	polyhomeotic homolog 2 [Source:VGNC Symbol;Acc:VGNC:75903]	3.469017151	0.00594828	0.027611084
ENSMMUG00000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	3.469106101	4.31E-26	1.66E-23
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	3.490203134	3.09E-27	1.42E-24
ENSMMUG00000053790		3.498657968	1.20E-21	2.62E-19

ENSMMUG0000002562	mediator complex subunit 19 [Source:VGNC Symbol;Acc:VGNC:74615]	3.502806217	2.96E-07	6.22E-06
ENSMMUG0000000276	NACC family member 2 [Source:VGNC Symbol;Acc:VGNC:75013]	3.520266198	0.002919585	0.015714583
ENSMMUG00000058085	coiled-coil domain containing 195 [Source:HGNC Symbol;Acc:HGNC:53441]	3.524330732	0.001379682	0.008659892
ENSMMUG00000046169		3.527577837	9.87E-20	1.62E-17
ENSMMUG00000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	3.530677718	1.74E-25	6.13E-23
ENSMMUG00000061603		3.5363073	0.010608485	0.044021904
ENSMMUG00000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	3.545503368	2.08E-06	3.36E-05
ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	3.54646533	7.46E-18	9.60E-16
ENSMMUG0000003007	caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]	3.554584962	0.000166927	0.001526042
ENSMMUG00000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	3.563544065	8.99E-14	6.22E-12
ENSMMUG00000012147	collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]	3.595566561	1.73E-28	9.43E-26
ENSMMUG00000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	3.597132437	1.43E-11	6.99E-10
ENSMMUG00000005415	olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]	3.606396767	0.006318595	0.028893275
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	3.619156025	0.000102556	0.001003407
ENSMMUG00000008506	metaxin-1 [Source:NCBI gene;Acc:717595]	3.620211094	0.005895307	0.027418327
ENSMMUG00000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	3.627448372	4.37E-20	7.81E-18
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	3.635151096	4.01E-27	1.78E-24
ENSMMUG00000061935		3.635162893	2.84E-17	3.43E-15
ENSMMUG00000053984		3.658904193	1.58E-08	4.41E-07
ENSMMUG00000057983		3.680865712	0.003111754	0.016570195
ENSMMUG00000051719	late cornified envelope 1C [Source:HGNC Symbol;Acc:HGNC:29464]	3.691678478	1.18E-05	0.000155907
ENSMMUG00000010316	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]	3.69818583	2.66E-18	3.70E-16
ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	3.711029751	9.81E-15	7.68E-13
ENSMMUG00000014534	phosphatidylinositol transfer protein beta [Source:VGNC Symbol;Acc:VGNC:76006]	3.733683909	0.004532729	0.022375914
ENSMMUG00000057179	cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]	3.75540914	2.91E-10	1.15E-08
ENSMMUG00000008784	lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]	3.769698941	0.00321779	0.017066543
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	3.796330792	2.53E-19	3.93E-17
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	3.799908254	5.24E-15	4.27E-13
ENSMMUG00000005737	SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]	3.813368545	1.74E-05	0.00021736
ENSMMUG00000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]	3.81830646	2.26E-25	7.75E-23
ENSMMUG00000038707	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	3.83945782	0.004009823	0.02046958
ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	3.854568881	4.74E-17	5.62E-15
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	3.855477035	2.49E-26	9.95E-24
ENSMMUG00000062091		3.856465864	2.44E-08	6.53E-07
ENSMMUG00000002741	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]	3.880531399	0.000115006	0.0011045
ENSMMUG00000000544	collagen type VI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:82084]	3.881046242	0.000264965	0.002245735
ENSMMUG00000024537		3.882042917	1.71E-06	2.82E-05
ENSMMUG00000060184	SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]	3.886281431	2.66E-05	0.000314047
ENSMMUG00000049843	late cornified envelope protein 2D [Source:NCBI gene;Acc:100424118]	3.88802307	0.003558359	0.018609131
ENSMMUG00000051349		3.892328082	0.001337997	0.008469264
ENSMMUG00000055022	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.895170299	0.000226948	0.001973731
ENSMMUG00000053249		3.901323671	0.008889519	0.038089762
ENSMMUG00000062296	potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]	3.9016123	0.002817669	0.015303583
ENSMMUG00000017822	periplakin [Source:VGNC Symbol;Acc:VGNC:76240]	3.915405984	1.28E-16	1.34E-14
ENSMMUG00000018767	cell division cycle associated 5 [Source:NCBI gene;Acc:721998]	3.925879122	0.000904347	0.006181769
ENSMMUG00000031684	KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]	3.929909239	0.001012927	0.006776989
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	3.964042515	6.37E-38	1.53E-34
ENSMMUG00000007068	tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]	3.983230176	0.000135651	0.001278357
ENSMMUG00000004982	activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]	3.995616769	0.004841291	0.023492422
ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	3.995726555	1.10E-14	8.47E-13
ENSMMUG00000052168		4.005426924	5.48E-34	8.20E-31

ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]	4.035702565	1.15E-23	3.13E-21
ENSMMUG00000052785	extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]	4.045334035	0.003311597	0.017471226
ENSMMUG00000018743	ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]	4.068769678	3.78E-05	0.000425197
ENSMMUG00000011344	solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]	4.101123756	2.77E-06	4.36E-05
ENSMMUG00000011682	ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]	4.131518073	2.25E-05	0.000272206
ENSMMUG00000029186	exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]	4.133829767	0.001706534	0.01028041
ENSMMUG00000058817		4.139017055	5.63E-21	1.12E-18
ENSMMUG00000021447	TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]	4.140172829	0.002512352	0.013981379
ENSMMUG00000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	4.153294771	4.66E-16	4.30E-14
ENSMMUG00000023403	GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]	4.16180089	8.59E-11	3.60E-09
ENSMMUG00000063198		4.202272829	2.72E-07	5.81E-06
ENSMMUG00000010318	phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]	4.210645273	1.48E-17	1.85E-15
ENSMMUG0000004330	peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]	4.220081843	1.32E-06	2.28E-05
ENSMMUG00000022818	inhibitor of growth family member 1 [Source:VGNC Symbol;Acc:VGNC:73742]	4.222013191	0.004139807	0.020892678
ENSMMUG00000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	4.241471826	2.51E-21	5.19E-19
ENSMMUG00000017930	striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]	4.244460879	1.35E-24	4.13E-22
ENSMMUG00000006655	myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]	4.24826332	1.62E-08	4.49E-07
ENSMMUG0000004868	dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]	4.256349654	0.007296501	0.032472278
ENSMMUG00000009388	F-box and leucine rich repeat protein 5 [Source:VGNC Symbol;Acc:VGNC:81408]	4.256361122	0.0058111	0.027089815
ENSMMUG00000004470	CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]	4.279224568	1.69E-06	2.79E-05
ENSMMUG00000010444	ring finger protein 150 [Source:VGNC Symbol;Acc:VGNC:76805]	4.324098251	0.006253956	0.028663366
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	4.334263054	1.05E-35	1.80E-32
ENSMMUG00000005920	N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]	4.335190981	4.07E-05	0.000450752
ENSMMUG00000057632		4.335978225	3.87E-24	1.08E-21
ENSMMUG00000054736		4.340760619	9.27E-10	3.35E-08
ENSMMUG00000022282	collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]	4.417258626	2.74E-05	0.00032153
ENSMMUG00000064095		4.438267239	2.32E-05	0.000279634
ENSMMUG00000023570	interleukin 19 [Source:NCBI gene;Acc:694806]	4.439351546	0.004131968	0.020871347
ENSMMUG00000056248		4.507783789	1.41E-25	5.10E-23
ENSMMUG00000013648	potassium two pore domain channel subfamily K member 16 [Source:VGNC Symbol;Acc:VGNC:73827]	4.535051763	0.003916645	0.020122581
ENSMMUG00000050799		4.535051763	0.003916645	0.020122581
ENSMMUG00000014738	bromodomain containing 9 [Source:VGNC Symbol;Acc:VGNC:70386]	4.554296154	0.004516471	0.022331785
ENSMMUG00000064931		4.579853554	2.34E-08	6.31E-07
ENSMMUG00000019443	syntaxin 11 [Source:VGNC Symbol;Acc:VGNC:78041]	4.589465405	0.001911075	0.011285522
ENSMMUG00000018298	killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]	4.590637057	4.66E-09	1.45E-07
ENSMMUG00000051037		4.600664897	5.11E-10	1.93E-08
ENSMMUG00000058370	taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]	4.604517747	1.64E-06	2.72E-05
ENSMMUG00000007688	angiominin [Source:VGNC Symbol;Acc:VGNC:69627]	4.612987763	0.001994314	0.01167346
ENSMMUG00000051976		4.620284606	0.00697817	0.031335046
ENSMMUG00000063779		4.717202744	9.22E-31	9.20E-28
ENSMMUG00000062294		4.73139864	0.000441287	0.003392077
ENSMMUG00000058029	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.736506634	0.000813433	0.005682059
ENSMMUG00000006389	zinc finger and SCAN domain containing 20 [Source:VGNC Symbol;Acc:VGNC:78895]	4.79197956	0.000161462	0.00148401
ENSMMUG00000057076	claudin 19 [Source:NCBI gene;Acc:697807]	4.808172267	0.001221295	0.007855224
ENSMMUG00000021062	CD177 molecule [Source:VGNC Symbol;Acc:VGNC:70912]	4.817568267	5.84E-16	5.26E-14
ENSMMUG00000001820	regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]	4.825415917	0.00263111	0.014518993
ENSMMUG00000017053	death associated protein kinase 1 [Source:VGNC Symbol;Acc:VGNC:71732]	4.87448887	0.002192696	0.012534479
ENSMMUG00000052569		4.883165839	2.34E-16	2.37E-14
ENSMMUG00000003005	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]	4.920297851	0.001221311	0.007855224
ENSMMUG00000063140	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.945921086	0.004064126	0.020632461
ENSMMUG00000043396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.9496883	2.50E-06	3.98E-05

ENSMMUG00000064520		4.961400743	2.08E-05	0.000254493
ENSMMUG00000004274	myotubularin related protein 8 [Source:VGNC Symbol;Acc:VGNC:74974]	4.965937308	0.001688693	0.010208879
ENSMMUG00000003353	macrophage stimulating 1 receptor [Source:VGNC Symbol;Acc:VGNC:74941]	4.968236015	0.002117931	0.012229673
ENSMMUG000000059782		4.973802373	3.78E-25	1.22E-22
ENSMMUG000000061282	hyaluronan and proteoglycan link protein 1 [Source:NCBI gene;Acc:712501]	4.975412345	0.002810282	0.015270391
ENSMMUG00000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]	4.975555984	1.80E-09	6.10E-08
ENSMMUG000000062949		4.993696932	0.003552649	0.018587388
ENSMMUG000000042039		5.005586783	0.012132145	0.04869121
ENSMMUG000000023823	Y RNA [Source:RFAM;Acc:RF00019]	5.006519554	0.00448767	0.022247698
ENSMMUG000000064014		5.006916682	0.001531006	0.009465836
ENSMMUG000000049267		5.011196007	3.83E-15	3.19E-13
ENSMMUG000000061940		5.04676445	0.000642777	0.004673892
ENSMMUG000000025150	Y RNA [Source:RFAM;Acc:RF00019]	5.054695252	0.005328273	0.025301902
ENSMMUG000000021269	Josephin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73919]	5.079869431	0.002866942	0.015500904
ENSMMUG000000032284	leucine rich repeat containing 47 [Source:VGNC Symbol;Acc:VGNC:74388]	5.18150719	0.00090488	0.006181882
ENSMMUG000000065109	ankyrin repeat and SOCS box containing 12 [Source:NCBI gene;Acc:707931]	5.184888018	0.001701117	0.010263262
ENSMMUG000000064358		5.18896303	0.010010836	0.041926434
ENSMMUG000000001116	SUZ12 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:78144]	5.27456684	0.000814163	0.005682059
ENSMMUG000000063744		5.296126451	0.001186401	0.007655355
ENSMMUG000000011564	transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]	5.451432981	0.000123288	0.001174616
ENSMMUG000000065134	Fas ligand [Source:NCBI gene;Acc:574159]	5.455337672	0.00012583	0.001197888
ENSMMUG000000048462	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.475155143	0.000380598	0.003006627
ENSMMUG000000060218	chemokine (C motif) ligand 1 [Source:NCBI gene;Acc:574367]	5.608750784	8.68E-05	0.000879722
ENSMMUG000000053561		5.700740585	0.000117487	0.00112203
ENSMMUG000000056168		5.862936276	3.10E-05	0.000358134
ENSMMUG000000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	5.949683833	3.81E-37	7.61E-34
ENSMMUG000000059335		5.95308511	3.95E-05	0.000439948
ENSMMUG000000013540	RAN guanine nucleotide release factor [Source:VGNC Symbol;Acc:VGNC:76503]	6.022446693	0.001019824	0.006806405
ENSMMUG000000026975	mml-mir-206 [Source:miRBase;Acc:MI0007667]	6.073534731	1.01E-05	0.00013713
ENSMMUG000000031540	purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]	6.198656538	3.06E-05	0.000354261
ENSMMUG000000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	6.339105492	2.00E-06	3.23E-05
ENSMMUG000000062496		6.385434242	0.000115688	0.001106612
ENSMMUG000000057785		6.510682263	1.75E-05	0.000218188
ENSMMUG000000004309	APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]	7.033038695	0.003345337	0.017618185
ENSMMUG000000049232	AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]	8.706993793	2.12E-05	0.000258336
ENSMMUG000000001989	RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]	8.793397736	1.26E-07	2.93E-06
ENSMMUG000000027543	Y RNA [Source:RFAM;Acc:RF00019]	9.061245781	2.22E-11	1.04E-09

SD 3 vs. Baseline

Ensembl Gene ID	Description	Log2(FC)	p-value	FDR
ENSMMUG00000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	6.195648702	7.05E-07	1.26E-05
ENSMMUG00000055207		6.151350598	3.11E-07	5.98E-06
ENSMMUG00000015702	divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]	6.055064417	5.24E-06	7.51E-05
ENSMMUG00000012056	structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]	5.968981836	2.49E-08	6.04E-07
ENSMMUG00000051155	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]	5.832804892	9.89E-06	0.000130902
ENSMMUG00000001245	zinc finger protein 532 [Source:NCBI gene;Acc:701146]	5.581682482	9.88E-06	0.000130902
ENSMMUG00000051522	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.538528614	3.97E-05	0.000444212
ENSMMUG00000043682	mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]	5.417992189	1.03E-05	0.000135474
ENSMMUG00000056056		5.400652998	0.00182006	0.011082637
ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]	5.383543872	1.36E-10	5.14E-09
ENSMMUG00000004566	zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]	5.363688501	4.02E-05	0.000449573
ENSMMUG00000007001	protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]	5.289857809	3.18E-05	0.000362875
ENSMMUG00000049117	CLUU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]	5.262198979	0.000447797	0.003432138
ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]	5.048336555	3.42E-11	1.44E-09
ENSMMUG00000008942	carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]	4.999530552	1.01E-09	3.25E-08
ENSMMUG00000003693	DIS3 like exosome 3'-5' exoribonuclease [Source:VGNC Symbol;Acc:VGNC:71796]	4.898266609	0.001318231	0.008497449
ENSMMUG00000059241		4.880585139	8.32E-09	2.25E-07
ENSMMUG00000011282	DnaJ heat shock protein family (Hsp40) member C9 [Source:NCBI gene;Acc:707599]	4.877232887	0.003865743	0.020283815
ENSMMUG00000004821	membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]	4.839718448	2.76E-06	4.24E-05
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]	4.818441802	4.26E-06	6.19E-05
ENSMMUG00000050445	ribonuclease A family member 8 [Source:NCBI gene;Acc:716333]	4.810574969	0.001765233	0.010819868
ENSMMUG00000019639	paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]	4.785575447	3.86E-10	1.35E-08
ENSMMUG00000010871	crystallin gamma B [Source:VGNC Symbol;Acc:VGNC:71507]	4.761047727	0.002300075	0.013395769
ENSMMUG00000052176		4.704533769	0.004662552	0.023721635
ENSMMUG00000049842		4.675622108	0.000440307	0.003386737
ENSMMUG00000055529	sulfotransferase family 1C member 4 [Source:NCBI gene;Acc:693903]	4.674557079	0.002281997	0.013308403
ENSMMUG00000000352	family with sequence similarity 229 member A [Source:NCBI gene;Acc:708770]	4.663754438	0.00323535	0.017644315

ENSMMUG00000010049	NOP9 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75216]	-	4.618133804	0.000605799	0.004441156
ENSMMUG00000021242	natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]	-	4.616473939	1.32E-05	0.000167771
ENSMMUG00000000496	zinc finger and BTB domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79047]	-	4.556746574	0.000762243	0.005384247
ENSMMUG00000010621	heart and neural crest derivatives expressed 1 [Source:VGNC Symbol;Acc:VGNC:73345]	-	4.520339361	0.006352182	0.030596108
ENSMMUG000000051162		-	4.492073151	0.000305014	0.002530537
ENSMMUG00000024125	small nucleolar RNA, H/ACA box 58 [Source:HGNC Symbol;Acc:HGNC:32652]	-	4.491371626	0.001018537	0.006857828
ENSMMUG00000049682	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	4.459113493	1.05E-05	0.000137114
ENSMMUG00000038389		-	4.409912958	0.009488113	0.04208339
ENSMMUG00000052169	potassium two pore domain channel subfamily K member 12 [Source:NCBI gene;Acc:715556]	-	4.347329208	0.00283332	0.015895013
ENSMMUG00000009951	MARCKS like 1 [Source:VGNC Symbol;Acc:VGNC:74723]	-	4.310762284	0.009951734	0.043685284
ENSMMUG00000011811	anoctamin 6 [Source:VGNC Symbol;Acc:VGNC:69902]	-	4.310762284	0.009951734	0.043685284
ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]	-	4.289760587	2.45E-08	5.96E-07
ENSMMUG00000025616		-	4.285909238	0.002237672	0.013079294
ENSMMUG00000021095	desmoglein 2 [Source:VGNC Symbol;Acc:VGNC:72002]	-	-4.28067519	9.22E-05	0.000906962
ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]	-	4.254273244	0.000333912	0.002723343
ENSMMUG00000001040	nuclear GTPase, germinal center associated [Source:VGNC Symbol;Acc:VGNC:75497]	-	4.245825742	0.002721076	0.015378346
ENSMMUG00000018739	sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]	-	4.206098535	0.000235265	0.002023064
ENSMMUG000000059464		-	-4.15531132	0.005864371	0.028629072
ENSMMUG00000022975	sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]	-	4.123845912	1.64E-06	2.69E-05
ENSMMUG00000056369	SAP30 like [Source:NCBI gene;Acc:714400]	-	4.102546332	0.004177422	0.02169117
ENSMMUG00000063345		-	4.101132057	2.90E-07	5.63E-06
ENSMMUG00000062461	chromosome 15 C9orf43 homolog [Source:NCBI gene;Acc:704968]	-	4.081749854	0.009580928	0.04243076
ENSMMUG00000021656	golgin subfamily A member 8S [Source:NCBI gene;Acc:722977]	-	4.077593105	0.005735254	0.028178967
ENSMMUG00000050407		-	4.065020404	0.005895703	0.028738786
ENSMMUG00000060158		-	-4.05962694	0.007673212	0.035636218
ENSMMUG00000061774	taste 2 receptor member 10 [Source:NCBI gene;Acc:717960]	-	4.054149736	0.006991091	0.033060276
ENSMMUG00000022676	ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]	-	4.052065822	0.001086787	0.007220761
ENSMMUG00000022553	pyruvate dehydrogenase kinase 1 [Source:VGNC Symbol;Acc:VGNC:75932]	-	4.048465011	0.008844112	0.039847639
ENSMMUG00000026432	small nucleolar RNA, C/D box 7 [Source:HGNC Symbol;Acc:HGNC:32704]	-	4.029400509	0.006139243	0.029769362

ENSMMUG00000057793	dual specificity phosphatase 5 [Source:NCBI gene;Acc:698178]	-	0.000118099	0.001116947
ENSMMUG00000058754		4.019853275	-	-
ENSMMUG00000037551	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.012727242	0.007032904	0.033233416
ENSMMUG00000021094	desmoglein 3 [Source:VGNC Symbol;Acc:VGNC:72003]	-	4.90E-21	7.95E-19
ENSMMUG00000013799	ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]	3.999091486	7.93E-05	0.000802301
ENSMMUG00000006827	von Willebrand factor A domain containing 7 [Source:VGNC Symbol;Acc:VGNC:78941]	3.959297197	4.59E-06	6.62E-05
ENSMMUG00000065131		-3.94650984	-	-
ENSMMUG00000048493	neuroblastoma breakpoint family member 6-like protein [Source:NCBI gene;Acc:711999]	3.945017269	0.000364837	0.002927722
ENSMMUG00000011367	BUD23 rRNA methyltransferase and ribosome maturation factor [Source:VGNC Symbol;Acc:VGNC:70325]	-	0.0024406	0.014056424
ENSMMUG00000056790		3.924957978	0.0099861	0.043776904
ENSMMUG00000017206	SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]	3.871609551	0.010440815	0.045356551
ENSMMUG00000022865	junctophilin 2 [Source:NCBI gene;Acc:694158]	-	0.010329502	0.045008602
ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]	3.868959642	1.82E-06	2.93E-05
ENSMMUG00000062793		3.863447339	-	-
ENSMMUG00000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]	3.860473361	0.000741262	0.005258949
ENSMMUG0000005295	parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]	-	0.000598876	0.00440534
ENSMMUG0000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]	3.842486327	0.00010704	0.001030376
ENSMMUG00000058864		-3.82179195	9.33E-12	4.27E-10
ENSMMUG00000009785	C-C motif chemokine ligand 13 [Source:VGNC Symbol;Acc:VGNC:70696]	3.819822668	9.60E-07	1.67E-05
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]	-	1.40E-21	2.43E-19
ENSMMUG00000052535		3.760696388	-	-
ENSMMUG00000060011	hyaluronan and proteoglycan link protein 2 [Source:NCBI gene;Acc:718500]	3.74647833	0.005391523	0.026743274
ENSMMUG00000020370	SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]	-	-	-
ENSMMUG00000029164	glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]	3.736907545	0.000347173	0.002820862
ENSMMUG00000053323		3.721613179	2.07E-23	5.07E-21
ENSMMUG00000021331	EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]	-3.70477557	0.000270115	0.00228191
ENSMMUG0000006828	valyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:78755]	3.686430227	0.004471574	0.022952193
ENSMMUG00000010508	carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]	-	0.000149995	0.001376477
ENSMMUG00000051115		3.664337616	4.73E-11	1.94E-09
ENSMMUG0000006548	KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]	3.639532232	0.007788306	0.036054607
ENSMMUG00000013345	folliculin [Source:NCBI gene;Acc:698082]	-	8.94E-06	0.00011977
		3.603203163	0.000992556	0.006722028
		-	8.99E-05	0.000887602
		3.563272972	0.001467444	0.009293093
		3.557628335	4.82E-06	6.94E-05
		-3.55652339	-	-
		3.553554981	3.17E-05	0.00036259

ENSMMUG00000019423	zinc finger protein 2 [Source:NCBI gene;Acc:703864]	-	3.544839639	0.007138469	0.033658713
ENSMMUG00000020926	syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]	-	3.543990855	8.23E-05	0.000826893
ENSMMUG00000052682		-	3.539918439	4.62E-08	1.06E-06
ENSMMUG00000016331	glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]	-	3.537085536	0.003824481	0.020091684
ENSMMUG00000059824		-	3.535983419	0.010435319	0.045347857
ENSMMUG00000016845	zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]	-	3.534882092	9.00E-07	1.57E-05
ENSMMUG00000010661	BICD cargo adaptor 2 [Source:VGNC Symbol;Acc:VGNC:70333]	-	-3.5290809	0.007550323	0.03517881
ENSMMUG00000007187	haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]	-	3.520486771	0.001296833	0.008384504
ENSMMUG00000008525	minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]	-	3.493878172	0.000173186	0.001549832
ENSMMUG00000061953		-	3.490413908	0.007561234	0.035217006
ENSMMUG00000021243	zinc finger and BTB domain containing 47 [Source:VGNC Symbol;Acc:VGNC:79645]	-	3.473505583	0.005254553	0.026160027
ENSMMUG00000060359		-	3.461825609	0.004658252	0.023713408
ENSMMUG00000026876	mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]	-	3.458837575	0.000742516	0.005264963
ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]	-	3.451676667	1.04E-24	2.93E-22
ENSMMUG00000024598	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	3.447234358	0.001076689	0.007179403
ENSMMUG00000061408		-	3.442209459	2.81E-05	0.000325642
ENSMMUG00000004412	arginine and serine rich coiled-coil 2 [Source:VGNC Symbol;Acc:VGNC:77139]	-	3.430444379	1.16E-06	1.98E-05
ENSMMUG00000002166	tousled like kinase 2 [Source:VGNC Symbol;Acc:VGNC:78368]	-	3.417121288	0.002316809	0.013475087
ENSMMUG00000020905	chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]	-	3.406446142	7.28E-05	0.00074611
ENSMMUG00000039300		-	3.405999181	1.34E-06	2.24E-05
ENSMMUG00000002649	unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]	-	3.403907135	0.000233913	0.00201277
ENSMMUG00000031000	Rho GTPase activating protein 8 [Source:NCBI gene;Acc:716745]	-	-3.39702996	0.000208881	0.001833853
ENSMMUG00000008346	structural maintenance of chromosomes 5 [Source:NCBI gene;Acc:702219]	-	3.372122394	0.001061676	0.007097531
ENSMMUG00000021091	COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]	-	3.358998246	1.25E-07	2.63E-06
ENSMMUG00000051271		-	3.350346163	2.51E-18	2.86E-16
ENSMMUG00000060836		-	3.321180957	0.001548291	0.009696247
ENSMMUG00000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]	-	3.319179306	9.43E-13	4.88E-11
ENSMMUG00000016018	establishment of sister chromatid cohesion N-acetyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:72374]	-	3.312585458	0.002543266	0.01455731
ENSMMUG00000065099		-	3.304062689	8.92E-15	6.15E-13

ENSMMUG0000007003	polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]	-	3.278542468	0.000229943	0.001982549
ENSMMUG00000018827	multiple EGF like domains 10 [Source:VGNC Symbol;Acc:VGNC:74617]	-	3.274778742	0.006348007	0.030596108
ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]	-	3.253236815	2.14E-14	1.37E-12
ENSMMUG00000002755	kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]	-	3.252908722	0.000495554	0.003729878
ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]	-	3.251118224	0.000428642	0.00332063
ENSMMUG00000005851	B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]	-	3.244233212	2.70E-06	4.16E-05
ENSMMUG00000038587	prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]	-	3.242080103	0.008302091	0.037865704
ENSMMUG00000016314	family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]	-	3.227768184	1.15E-19	1.58E-17
ENSMMUG000000058603		-	3.226977126	1.95E-05	0.00023829
ENSMMUG00000031965	aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]	-	3.224641251	5.86E-06	8.24E-05
ENSMMUG00000053344	spla/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]	-	-3.22030504	4.66E-08	1.07E-06
ENSMMUG00000014809	heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]	-	3.218272747	0.003370106	0.018182009
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]	-	-3.21550831	5.68E-11	2.29E-09
ENSMMUG000000059922	family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]	-	3.197474097	1.19E-05	0.000153069
ENSMMUG000000045775	macrophage expressed 1 [Source:NCBI gene;Acc:700274]	-	3.193851424	0.00665798	0.031809258
ENSMMUG000000053577		-	3.185159986	1.73E-08	4.37E-07
ENSMMUG000000055610	homeobox C4 [Source:NCBI gene;Acc:100430434]	-	3.137564482	3.57E-24	9.45E-22
ENSMMUG00000006866	CUGBP Elav-like family member 4 [Source:VGNC Symbol;Acc:VGNC:70945]	-	-3.12562303	0.006860115	0.03254661
ENSMMUG000000060830		-	3.121762013	0.010677474	0.046137495
ENSMMUG000000052277	transthyretin [Source:NCBI gene;Acc:705943]	-	3.119544987	2.27E-06	3.59E-05
ENSMMUG00000016077	isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]	-	3.116560865	5.83E-06	8.21E-05
ENSMMUG000000065232		-	3.104017438	0.006374291	0.030668447
ENSMMUG00000026103	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]	-	-3.10094191	0.000359925	0.002899062
ENSMMUG00000000229	transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]	-	3.073821203	5.02E-05	0.000545539
ENSMMUG000000052605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-3.05622504	0.00518213	0.025883755
ENSMMUG000000037485		-	-3.05464437	0.000961617	0.006553542
ENSMMUG00000021244	kelch like family member 40 [Source:VGNC Symbol;Acc:VGNC:74165]	-	3.051673635	0.000783734	0.005506081
ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]	-	3.040077686	2.79E-08	6.68E-07
ENSMMUG000000059019		-	3.038852991	5.01E-15	3.59E-13
ENSMMUG00000005137	ATPase secretory pathway Ca ²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]	-	3.034605254	3.37E-11	1.42E-09
ENSMMUG000000060892		-	3.019053557	6.60E-07	1.19E-05

ENSMMUG00000012058	GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]	-	3.011205687	1.09E-05	0.000142659
ENSMMUG00000064721		-	-3.00171431	0.003113318	0.017117972
ENSMMUG00000054821		-	2.997903967	0.000875005	0.006045825
ENSMMUG00000063718	Kruppel like factor 9 [Source:NCBI gene;Acc:700585]	-	2.983714848	0.000686072	0.004929386
ENSMMUG00000051482		-	2.974678039	3.18E-11	1.35E-09
ENSMMUG00000010959	kelch like family member 9 [Source:VGNC Symbol;Acc:VGNC:74080]	-	2.970776646	0.002386276	0.013811024
ENSMMUG00000055809		-	2.956884624	4.98E-07	9.20E-06
ENSMMUG00000019831	neurobeachin [Source:NCBI gene;Acc:714386]	-	2.952379693	2.94E-08	7.02E-07
ENSMMUG00000013666	copine 8 [Source:NCBI gene;Acc:114669741]	-	2.944587237	0.003670933	0.019402861
ENSMMUG00000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]	-	-2.92996215	6.45E-10	2.15E-08
ENSMMUG00000021246	hedgehog acyltransferase like [Source:NCBI gene;Acc:717333]	-	-2.92455996	1.70E-05	0.000209167
ENSMMUG00000017703	collagen type XXV alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81374]	-	2.897209143	0.0022153	0.01297776
ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]	-	2.895430105	0.005533267	0.027352256
ENSMMUG00000060455		-	2.846317811	0.000174089	0.001555775
ENSMMUG00000057031		-	2.840732988	0.001649656	0.010222512
ENSMMUG00000007821	ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]	-	2.834994821	2.32E-12	1.15E-10
ENSMMUG00000004205	phospholipase B domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76122]	-	2.822552276	0.000401112	0.003154443
ENSMMUG00000006457	Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]	-	2.816350377	0.000166373	0.001500244
ENSMMUG00000016791	doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]	-	2.813878527	2.66E-24	7.20E-22
ENSMMUG00000004492	absent in melanoma 2 [Source:NCBI gene;Acc:719260]	-	2.807484977	0.000279867	0.002347479
ENSMMUG00000028925	HDGF like 2 [Source:NCBI gene;Acc:693476]	-	2.803281493	0.000226927	0.001961758
ENSMMUG00000023289	phospholipase D1 [Source:VGNC Symbol;Acc:VGNC:76171]	-	2.799057042	0.000638181	0.004644439
ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]	-	2.797115677	1.46E-17	1.48E-15
ENSMMUG00000018163	caspase 9 [Source:NCBI gene;Acc:694544]	-	-2.77957873	0.005139596	0.025729707
ENSMMUG00000044537	DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]	-	2.778210999	0.000322218	0.002641618
ENSMMUG00000015634	centromere protein F [Source:VGNC Symbol;Acc:VGNC:71009]	-	2.773737084	7.24E-05	0.000742908
ENSMMUG00000022879	EARP complex and GARP complex interacting protein 1 [Source:NCBI gene;Acc:707650]	-	-2.75807856	0.006199421	0.030005104
ENSMMUG00000008974	Fc receptor like 5 [Source:NCBI gene;Acc:718771]	-	2.740229195	5.28E-06	7.56E-05
ENSMMUG00000031736		-	2.736467628	0.000836979	0.005826524
ENSMMUG00000002742	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]	-	2.734374353	1.82E-16	1.65E-14

ENSMMUG0000004598	bisphosphoglycerate mutase [Source:VGNC Symbol;Acc:VGNC:70275]	-	2.733313246	0.006310509	0.030429271
ENSMMUG00000013302	family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]	-	2.732979329	0.000385294	0.00306567
ENSMMUG00000022191	laeverin [Source:VGNC Symbol;Acc:VGNC:74372]	-	2.732543319	0.011597239	0.049146234
ENSMMUG00000029475	zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]	-	2.731557063	1.73E-07	3.52E-06
ENSMMUG00000017374	G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]	-	2.706859435	0.001855416	0.011252472
ENSMMUG00000042299	DENN domain containing 2A [Source:VGNC Symbol;Acc:VGNC:81302]	-	2.699511568	0.004429377	0.022789688
ENSMMUG00000053657		-	2.668889831	0.003942371	0.020627504
ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]	-	2.662961777	1.50E-05	0.00018713
ENSMMUG00000009694	solute carrier family 9 member A9 [Source:VGNC Symbol;Acc:VGNC:77747]	-	2.650757027	0.005178022	0.025883755
ENSMMUG00000051001		-	2.646542645	0.00375299	0.019772146
ENSMMUG00000012690	myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]	-	2.632756605	0.003732836	0.019689952
ENSMMUG00000002182	phosphatidylserine decarboxylase [Source:VGNC Symbol;Acc:VGNC:76005]	-	2.631888873	0.00010315	0.00099737
ENSMMUG00000010820	chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]	-	2.631508125	1.34E-10	5.09E-09
ENSMMUG00000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]	-	2.625991877	5.15E-13	2.75E-11
ENSMMUG00000003049	testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]	-	2.623066647	2.15E-05	0.000259809
ENSMMUG00000023803	myosin heavy chain 10 [Source:NCBI gene;Acc:721979]	-	2.622922588	0.001268837	0.008232215
ENSMMUG00000054315		-	2.617299198	0.000136159	0.001258403
ENSMMUG00000049194		-	2.612717988	0.000790627	0.005551502
ENSMMUG00000064793	C-C motif chemokine ligand 11 [Source:NCBI gene;Acc:574218]	-	2.599339805	0.002285994	0.01331974
ENSMMUG00000022250	beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]	-	2.595520535	0.000499418	0.003754602
ENSMMUG00000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]	-	2.589918613	1.10E-10	4.24E-09
ENSMMUG00000018342	required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]	-	2.584387088	1.15E-10	4.41E-09
ENSMMUG00000011401	amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]	-	-2.58226581	1.54E-05	0.000191675
ENSMMUG00000001172	spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]	-	2.568360245	1.74E-05	0.000214685
ENSMMUG00000060940	acidic residue methyltransferase 1 [Source:NCBI gene;Acc:704570]	-	2.557419801	0.001615901	0.010056561
ENSMMUG00000064216		-	2.556964035	0.000973382	0.006616344
ENSMMUG00000057859		-	-2.5243344	6.12E-05	0.000644897
ENSMMUG00000022762	OMA1 zinc metalloproteinase [Source:VGNC Symbol;Acc:VGNC:75485]	-	2.512620454	1.20E-11	5.38E-10
ENSMMUG00000055229		-	2.507340872	3.07E-10	1.10E-08

ENSMMUG00000055585		-	2.505365077	1.38E-08	3.59E-07
ENSMMUG0000007504	myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]	-	2.488549699	0.000890445	0.006126498
ENSMMUG0000009038	titin [Source:NCBI gene;Acc:703527]	-	2.487572577	0.000145991	0.001343529
ENSMMUG00000014424	ADP ribosylation factor guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:69834]	-	2.484585827	0.005058253	0.025391059
ENSMMUG00000009948	histone deacetylase 1 [Source:NCBI gene;Acc:708441]	-	2.482488575	1.91E-12	9.69E-11
ENSMMUG00000059406	RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]	-	2.468376282	0.00083041	0.005790116
ENSMMUG00000020348	BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]	-	2.467963062	7.70E-05	0.000783758
ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]	-	2.465006529	1.61E-11	7.05E-10
ENSMMUG00000007628	cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]	-	2.453613167	0.000590769	0.004363019
ENSMMUG000000051936		-	2.447272024	0.000207793	0.001826776
ENSMMUG000000052830		-	2.438134368	1.94E-08	4.86E-07
ENSMMUG00000012479	lysine demethylase 4A [Source:NCBI gene;Acc:701272]	-	2.420718478	0.008265879	0.037744295
ENSMMUG00000009782	C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]	-	2.404093606	5.11E-05	0.000553687
ENSMMUG00000008113	pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]	-	2.394049093	1.68E-05	0.000207432
ENSMMUG00000016871	alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]	-	2.392989997	0.000807524	0.005660647
ENSMMUG00000004215	LRAT domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74321]	-	2.366593506	0.009259683	0.041332524
ENSMMUG00000017628	pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]	-	2.362574893	0.008057331	0.036983351
ENSMMUG00000021034	complement C6 [Source:VGNC Symbol;Acc:VGNC:70477]	-	2.361506188	0.000245895	0.00210055
ENSMMUG00000049908	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.355990163	0.004448209	0.022859392
ENSMMUG000000056303		-	2.353154787	0.000126233	0.001181814
ENSMMUG00000023791	SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]	-	2.348367936	0.002589155	0.014780853
ENSMMUG00000022484	ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]	-	2.347980967	0.01070506	0.046225912
ENSMMUG000000037806	chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]	-	2.343922538	0.002581352	0.014749284
ENSMMUG00000017932	acyl-CoA synthetase short chain family member 2 [Source:VGNC Symbol;Acc:VGNC:69410]	-	2.340732766	0.005570998	0.027486417
ENSMMUG00000060278	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	2.320133844	0.001880039	0.011346689
ENSMMUG00000023265	A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]	-	2.299110291	1.51E-09	4.72E-08
ENSMMUG00000060536		-	2.298093336	0.000303342	0.00252318
ENSMMUG00000010543	PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]	-	2.297456219	0.000904476	0.006213063

ENSMMUG00000057302		-	2.295017286	0.000405891	0.003184304
ENSMMUG00000059575		-	2.294195945	1.63E-24	4.50E-22
ENSMMUG00000060579		-	2.283692122	0.000813483	0.005693507
ENSMMUG00000052609	ribosomal protein L34 [Source:NCBI gene;Acc:696636]	-	2.281370958	2.78E-06	4.27E-05
ENSMMUG00000063177	StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]	-	2.277181329	3.96E-14	2.46E-12
ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]	-	2.274548488	4.11E-09	1.20E-07
ENSMMUG00000010050	small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]	-	2.272913445	0.001150575	0.007574763
ENSMMUG00000051999		-	2.260746685	1.07E-05	0.000139627
ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]	-	2.258220318	1.11E-07	2.37E-06
ENSMMUG00000022153	solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]	-	2.248935069	2.16E-15	1.62E-13
ENSMMUG00000022199	polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]	-	2.240665407	4.50E-10	1.56E-08
ENSMMUG00000021534	solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]	-	2.239394313	0.000753322	0.00532994
ENSMMUG00000056113		-	-2.2214908	0.002881957	0.016091341
ENSMMUG00000061973		-	2.211012032	4.09E-20	5.96E-18
ENSMMUG00000037662	selenoprotein M [Source:NCBI gene;Acc:718290]	-	2.207628688	0.009755422	0.04302413
ENSMMUG00000040694	LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]	-	2.203441664	6.29E-27	2.27E-24
ENSMMUG00000009965	chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]	-	2.185911081	1.51E-10	5.63E-09
ENSMMUG00000004885	quiescin sulfhydryl oxidase 2 [Source:VGNC Symbol;Acc:VGNC:76568]	-	2.185553927	0.007238301	0.034042838
ENSMMUG00000024966	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	-	2.181495385	0.010116569	0.044226539
ENSMMUG00000013940	kinesin family member 4A [Source:NCBI gene;Acc:695574]	-	2.171118504	2.93E-05	0.000337486
ENSMMUG00000052287		-	2.170784158	0.003653917	0.019336552
ENSMMUG00000013643	zinc finger CCHC-type containing 8 [Source:VGNC Symbol;Acc:VGNC:79487]	-	2.168302989	0.00569965	0.028046515
ENSMMUG00000019883	RNA binding motif protein 20 [Source:NCBI gene;Acc:698677]	-	2.165454245	0.000150386	0.001379089
ENSMMUG00000013476	PHD finger protein 11 [Source:VGNC Symbol;Acc:VGNC:75814]	-	2.162287264	0.010575528	0.045788474
ENSMMUG00000038661		-	-2.15923582	1.05E-10	4.06E-09
ENSMMUG00000013047	S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]	-	2.149275832	2.35E-14	1.50E-12
ENSMMUG00000019105	RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]	-	2.144911391	8.58E-05	0.00085427
ENSMMUG00000064798		-	2.144675886	0.004987247	0.025102607
ENSMMUG00000016993	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]	-	2.141074264	1.15E-07	2.45E-06

ENSMMUG0000006731	CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]	2.140739865	1.28E-08	3.36E-07
ENSMMUG00000040771		2.131872817	0.000219346	0.001907667
ENSMMUG00000022726	dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]	2.130738686	0.000264082	0.002238229
ENSMMUG00000059852		2.127843073	0.008887096	0.039986764
ENSMMUG00000065257		2.124207557	0.002714817	0.015349659
ENSMMUG00000051169		2.118675231	0.003315266	0.01795446
ENSMMUG00000056664	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.111404556	0.002262934	0.013209102
ENSMMUG00000044628		2.111173022	0.000168371	0.001514051
ENSMMUG00000020731	terminal nucleotidyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:79637]	-2.11015799	0.007823455	0.036178599
ENSMMUG00000052031		2.104241065	1.54E-09	4.78E-08
ENSMMUG00000007816	SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]	2.103570686	3.66E-07	6.92E-06
ENSMMUG00000017931	gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]	2.089504871	9.09E-06	0.000121411
ENSMMUG00000013501	CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]	-2.08334235	0.000331985	0.002709332
ENSMMUG00000011974	calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]	2.076160136	4.45E-11	1.83E-09
ENSMMUG00000009831	TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]	2.072016163	7.21E-08	1.60E-06
ENSMMUG00000008643	general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]	2.062763054	9.61E-11	3.72E-09
ENSMMUG00000015000	SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]	2.058848738	1.24E-06	2.09E-05
ENSMMUG00000009702	mutS homolog 5 [Source:NCBI gene;Acc:715494]	2.042357167	0.005822923	0.028469574
ENSMMUG00000021078	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70176]	2.037120933	0.000316949	0.002604644
ENSMMUG00000061766		2.036944303	0.00730735	0.034293009
ENSMMUG00000017143	LDL receptor related protein 2 [Source:VGNC Symbol;Acc:VGNC:81430]	2.027716825	0.011183951	0.047901343
ENSMMUG00000041775	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.024765559	0.002483402	0.014277634
ENSMMUG00000039317	cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]	2.024216516	0.003621017	0.019225169
ENSMMUG00000049786		2.023744738	0.000430032	0.00332743
ENSMMUG00000008228	unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]	2.023053631	0.000971292	0.006606025
ENSMMUG00000012151	glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]	2.014515212	0.00182318	0.011096429
ENSMMUG00000050630		2.013068991	0.002995302	0.016602753
ENSMMUG00000057763		2.010502009	8.36E-05	0.000835235
ENSMMUG00000056363		2.003030714	0.000847632	0.005878607

ENSMMUG00000059525		-	1.988861495	1.68E-06	2.73E-05
ENSMMUG00000013943	glycerophosphodiester phosphodiesterase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72787]	-	1.987357918	0.000460291	0.003515441
ENSMMUG00000007325	Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]	-	-1.9853867	1.37E-05	0.000173483
ENSMMUG00000006252	argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]	-	1.977692289	3.65E-12	1.76E-10
ENSMMUG00000006309	unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]	-	1.974518208	0.004819861	0.024354563
ENSMMUG00000018346	coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]	-	1.973827254	0.000386311	0.003071547
ENSMMUG00000064158		-	1.973559018	0.000108892	0.001045364
ENSMMUG00000015002	chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]	-	1.966760397	0.000136436	0.00126007
ENSMMUG00000010858	prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]	-	1.962072396	2.19E-08	5.38E-07
ENSMMUG00000060062		-	1.955442066	0.011684638	0.049387578
ENSMMUG00000039944	Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]	-	1.952478774	3.00E-06	4.55E-05
ENSMMUG00000010127	chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]	-	1.946920843	4.48E-05	0.000492646
ENSMMUG00000055759	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.943448406	1.95E-06	3.13E-05
ENSMMUG00000011902	oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]	-	1.942073247	3.38E-09	1.00E-07
ENSMMUG00000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]	-	1.937222707	0.009628237	0.042611186
ENSMMUG00000014672	mitogen-activated protein kinase kinase kinase 20 [Source:NCBI gene;Acc:698274]	-	1.933076607	0.002254873	0.013173897
ENSMMUG00000003221	DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]	-	1.931570888	1.25E-06	2.10E-05
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]	-	1.930257151	3.57E-05	0.000403832
ENSMMUG00000015661	protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]	-	1.924536092	0.000405143	0.00318036
ENSMMUG00000051523	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.922195703	0.001067764	0.007134556
ENSMMUG00000053721		-	1.908475674	3.93E-05	0.000440328
ENSMMUG00000020812	A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]	-	1.907773255	0.001248524	0.008119445
ENSMMUG00000010695	adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]	-	1.905386961	1.02E-05	0.000134372
ENSMMUG00000000982	protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]	-	1.902671849	6.44E-09	1.79E-07
ENSMMUG00000059115		-	1.902605265	2.70E-05	0.00031558
ENSMMUG00000018974	LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]	-	1.902555823	2.53E-16	2.26E-14
ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]	-	1.900409299	0.000280933	0.002353383
ENSMMUG00000051032	serine protease 2 [Source:NCBI gene;Acc:698352]	-	1.898919779	5.32E-07	9.78E-06
ENSMMUG00000007330	nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]	-	1.898406935	5.13E-13	2.75E-11

ENSMMUG0000005067	elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]	1.893683764	3.00E-05	0.000344801
ENSMMUG00000010113	steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]	1.888969066	2.15E-08	5.31E-07
ENSMMUG00000052642	protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]	1.885719192	0.003256124	0.017704856
ENSMMUG00000057747		1.883611492	0.010776442	0.04649892
ENSMMUG00000064529		1.883499102	5.95E-08	1.33E-06
ENSMMUG00000020125	SUMO specific peptidase 1 [Source:NCBI gene;Acc:707603]	1.882114648	0.006416005	0.030846267
ENSMMUG00000020211	cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]	1.878820985	8.47E-11	3.32E-09
ENSMMUG00000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]	1.874967799	0.000393196	0.003111044
ENSMMUG00000003946	ADP-ribosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:69890]	1.868400103	0.001767294	0.010827385
ENSMMUG00000043727	zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]	1.867332814	0.003394503	0.018284377
ENSMMUG00000061594		1.863156317	0.001551054	0.009708866
ENSMMUG00000030099	phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]	1.858704525	3.23E-05	0.00036886
ENSMMUG00000056910		1.855651302	2.30E-06	3.63E-05
ENSMMUG00000022656	perilipin 4 [Source:NCBI gene;Acc:693610]	1.851394532	0.001409361	0.008995897
ENSMMUG00000007255	microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]	1.845518412	0.001303641	0.008420132
ENSMMUG00000060346		1.832899908	0.000127774	0.001193657
ENSMMUG00000022305	Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]	1.831505033	9.47E-08	2.06E-06
ENSMMUG00000011555	interleukin 16 [Source:VGNC Symbol;Acc:VGNC:84355]	1.831440315	0.003783098	0.01990652
ENSMMUG00000016683	phosphorylated adaptor for RNA export [Source:NCBI gene;Acc:702980]	1.826063165	0.001240961	0.008087748
ENSMMUG00000056687		1.824628954	3.77E-06	5.57E-05
ENSMMUG00000058942		1.824443372	2.01E-08	5.01E-07
ENSMMUG00000061590		1.821667008	0.008042872	0.036969291
ENSMMUG00000000288	C-C motif chemokine ligand 2 [Source:VGNC Symbol;Acc:VGNC:70698]	1.818362144	2.02E-05	0.000245891
ENSMMUG00000056824		1.815318425	0.010836598	0.046715408
ENSMMUG00000012615	pecanex 2 [Source:NCBI gene;Acc:712828]	1.812442251	4.83E-05	0.000527119
ENSMMUG00000061761	interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]	-1.80840894	3.80E-11	1.58E-09
ENSMMUG00000064748	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.806219494	0.001803969	0.011015674
ENSMMUG00000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]	1.805130553	1.32E-07	2.78E-06
ENSMMUG00000012473	proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]	1.804417963	0.009372291	0.041706051

ENSMMUG00000022982	IQ motif containing GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:73756]	-	1.803811829	0.001241845	0.008089449
ENSMMUG00000054793		-	1.802728898	0.002230606	0.013043869
ENSMMUG00000017252	spermatogenesis associated 20 [Source:VGNC Symbol;Acc:VGNC:77993]	-	1.793852052	1.36E-08	3.56E-07
ENSMMUG00000056165		-	1.788746382	0.00042221	0.003284533
ENSMMUG00000052518	SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]	-	1.784039623	0.010870891	0.046817351
ENSMMUG00000017246	lipoygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]	-	1.780538217	7.72E-13	4.04E-11
ENSMMUG00000012474	ring finger protein 31 [Source:NCBI gene;Acc:715239]	-	1.780193246	0.006025219	0.02929754
ENSMMUG00000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]	-	1.776816113	1.13E-06	1.93E-05
ENSMMUG00000014997	spalt like transcription factor 2 [Source:NCBI gene;Acc:708367]	-	1.776443446	2.31E-08	5.64E-07
ENSMMUG00000063268		-	1.776267765	0.000316052	0.002602216
ENSMMUG00000055271		-	1.773833056	2.72E-05	0.000316727
ENSMMUG00000054064		-	1.773680604	1.44E-08	3.71E-07
ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]	-	1.768802063	0.001909107	0.011479412
ENSMMUG00000056103	growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]	-	1.759048939	2.18E-13	1.23E-11
ENSMMUG00000015590	siah E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77215]	-	1.757403312	0.003465931	0.018568916
ENSMMUG00000022183	spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]	-	1.756377812	2.17E-12	1.09E-10
ENSMMUG00000014685	pyruvate dehydrogenase kinase 2 [Source:VGNC Symbol;Acc:VGNC:75933]	-	1.756150259	9.42E-05	0.000924518
ENSMMUG00000004386	sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]	-	-1.75497943	0.001810867	0.01103702
ENSMMUG00000004157	nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]	-	1.750619183	5.23E-07	9.63E-06
ENSMMUG00000022724		-	1.748288524	0.001008657	0.006806207
ENSMMUG00000015577	RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]	-	1.747594164	3.09E-05	0.000354692
ENSMMUG00000042707	angiopoietin like 6 [Source:NCBI gene;Acc:106994633]	-	1.746289023	1.51E-06	2.49E-05
ENSMMUG00000062527		-	1.744654429	2.53E-18	2.86E-16
ENSMMUG00000041905	protein phosphatase 2 regulatory subunit Balpha [Source:VGNC Symbol;Acc:VGNC:84103]	-	1.740672487	0.004690425	0.023839778
ENSMMUG00000051190	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.739770643	0.006548308	0.031400902
ENSMMUG00000021507	chromosome 2 C3orf38 homolog [Source:VGNC Symbol;Acc:VGNC:70654]	-	1.731997208	0.005886995	0.028716027
ENSMMUG00000009520	gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]	-	1.729298433	5.22E-05	0.0005626
ENSMMUG00000052377		-	1.728669447	2.93E-06	4.46E-05
ENSMMUG00000056544		-	1.728408052	0.000389485	0.003091102

ENSMMUG00000055117		-	1.728046691	0.001900278	0.011447541
ENSMMUG00000010453	folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]	-	1.725579667	8.01E-08	1.77E-06
ENSMMUG00000016262	tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]	-	1.724670019	4.01E-06	5.89E-05
ENSMMUG00000002093	testis expressed 261 [Source:NCBI gene;Acc:703863]	-	1.723822814	5.78E-13	3.06E-11
ENSMMUG00000021393	calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]	-	1.718292264	5.46E-07	9.99E-06
ENSMMUG00000016526	solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]	-	1.712893302	0.002827494	0.01586919
ENSMMUG00000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]	-	1.712031837	0.000471271	0.003574061
ENSMMUG00000018972	RNA polymerase III subunit G [Source:VGNC Symbol;Acc:VGNC:84480]	-	1.711839922	5.57E-05	0.000596989
ENSMMUG000000059938		-	-1.71120038	0.002309452	0.013444346
ENSMMUG00000014002	cyclin dependent kinase 16 [Source:VGNC Symbol;Acc:VGNC:71160]	-	1.711054382	0.003077883	0.016973483
ENSMMUG000000059850	immunoglobulin kappa variable 1-9 [Source:NCBI gene;Acc:106993071]	-	1.709775678	0.004773008	0.024174299
ENSMMUG000000050245		-	1.705274498	0.001356365	0.008704346
ENSMMUG00000021145	family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]	-	1.703923668	2.88E-12	1.40E-10
ENSMMUG000000051381	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.697997979	0.00037336	0.002984539
ENSMMUG00000008632	myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]	-	1.696311583	0.000943461	0.00645013
ENSMMUG000000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	-1.69239098	2.13E-07	4.25E-06
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]	-	-1.69137649	3.39E-14	2.12E-12
ENSMMUG00000006857	epididymal sperm binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72046]	-	1.684681742	4.30E-05	0.000475639
ENSMMUG00000048322	eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]	-	1.678194671	7.02E-05	0.000724209
ENSMMUG00000005913	activating transcription factor 7 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70103]	-	1.677723216	0.000102836	0.000995083
ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]	-	-1.67498478	9.99E-12	4.55E-10
ENSMMUG00000009222	pleckstrin homology domain containing A4 [Source:VGNC Symbol;Acc:VGNC:76027]	-	1.674893903	0.006603877	0.031597312
ENSMMUG000000058698		-	1.674148526	0.009843781	0.043358078
ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]	-	1.673122315	0.000111791	0.001066619
ENSMMUG00000014687	sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]	-	1.670877197	1.06E-05	0.000138664
ENSMMUG00000005181	RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]	-	1.667789922	0.001451823	0.009216662
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]	-	1.666628487	4.41E-05	0.00048613
ENSMMUG00000004052	phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]	-	1.664780181	0.00040059	0.003153576
ENSMMUG000000050239		-	1.660166518	7.08E-06	9.79E-05
ENSMMUG00000023141	CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]	-	1.659058291	0.000165292	0.00149295

ENSMMUG00000014027	nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]	-	1.658773324	0.000166538	0.001500696
ENSMMUG00000021280	leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]	-	1.658720821	1.02E-05	0.000134329
ENSMMUG00000003260		-	1.658267223	1.86E-09	5.66E-08
ENSMMUG00000001481	nicotinamide nucleotide adenyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]	-	1.646741741	0.008052835	0.036975791
ENSMMUG000000058933		-	1.645811121	0.010400621	0.045242526
ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]	-	1.639566803	1.97E-06	3.16E-05
ENSMMUG00000018415	Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]	-	1.631407541	4.26E-05	0.000472078
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]	-	1.631239809	7.22E-13	3.79E-11
ENSMMUG00000011183	olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]	-	1.628401012	0.001876944	0.011335447
ENSMMUG00000019850	arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]	-	1.626227863	2.29E-13	1.28E-11
ENSMMUG00000017186	pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]	-	1.623832639	0.000682389	0.004905641
ENSMMUG00000003282	phosphodiesterase 6B [Source:VGNC Symbol;Acc:VGNC:75920]	-	1.621462306	0.000277835	0.002333451
ENSMMUG00000004387	ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]	-	1.616579803	2.58E-06	4.00E-05
ENSMMUG000000057606	GPRIN family member 3 [Source:NCBI gene;Acc:703567]	-	1.614477961	3.41E-10	1.22E-08
ENSMMUG00000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]	-	1.612616373	4.00E-09	1.17E-07
ENSMMUG00000017549	ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]	-	1.609303051	6.66E-06	9.26E-05
ENSMMUG00000020819	protein phosphatase 2 catalytic subunit beta [Source:VGNC Symbol;Acc:VGNC:76373]	-	1.608392911	0.004544462	0.02324357
ENSMMUG00000060080	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.606214848	0.001988054	0.01185229
ENSMMUG00000005751	adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]	-	1.604160822	0.006991168	0.033060276
ENSMMUG00000018474	signal regulatory protein alpha [Source:NCBI gene;Acc:717811]	-	1.602460642	1.62E-05	0.000200352
ENSMMUG00000013907	ribosomal protein S27a [Source:NCBI gene;Acc:718909]	-	-1.60154513	0.004006909	0.020931422
ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]	-	1.593758112	8.36E-05	0.000835235
ENSMMUG000000061536		-	1.591425686	7.10E-05	0.000731187
ENSMMUG000000046428		-	1.587846264	0.000160268	0.001454291
ENSMMUG00000020184	carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]	-	-1.58668571	0.001535167	0.009641976
ENSMMUG00000020114	cadherin 13 [Source:VGNC Symbol;Acc:VGNC:70807]	-	-1.58317628	0.005085685	0.02548932
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]	-	1.581827996	1.13E-11	5.09E-10
ENSMMUG000000051661		-	1.578711098	0.000426419	0.003310566
ENSMMUG00000009493	family with sequence similarity 120A [Source:NCBI gene;Acc:717459]	-	1.578685856	5.81E-06	8.19E-05

ENSMMUG00000051042		-	1.577984422	4.06E-13	2.21E-11
ENSMMUG00000055447	MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]	-	1.572413035	2.43E-09	7.36E-08
ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]	-1.57076277	0.003657116	0.019341967	
ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]	-	1.570244674	1.14E-11	5.14E-10
ENSMMUG00000049788		-	1.566562744	0.005182328	0.025883755
ENSMMUG00000061268	PLAG1 zinc finger [Source:NCBI gene;Acc:696149]	-	1.566121485	0.000959176	0.006543778
ENSMMUG00000043229	carbohydrate sulfotransferase 14 [Source:NCBI gene;Acc:703115]	-	1.564528825	0.006868493	0.032563234
ENSMMUG00000012120	zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]	-	1.562213634	6.40E-06	8.97E-05
ENSMMUG00000021282	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]	-	1.557358165	7.23E-05	0.000742908
ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]	-	1.555459071	1.44E-08	3.71E-07
ENSMMUG00000062791		-1.54962991	0.002310519	0.013444525	
ENSMMUG00000007313	histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]	-	1.548907078	0.001328249	0.008540815
ENSMMUG00000015619	ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]	-	1.548817339	4.59E-10	1.58E-08
ENSMMUG00000007115	RALY RNA binding protein like [Source:VGNC Symbol;Acc:VGNC:82217]	-	1.545571549	0.007482727	0.034951717
ENSMMUG00000001940	NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]	-	1.544722732	3.44E-06	5.13E-05
ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]	-	1.542945799	2.13E-08	5.27E-07
ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]	-	1.540850785	0.000323343	0.002647127
ENSMMUG000000056737		-	1.539907499	7.64E-05	0.000779469
ENSMMUG00000020821	testis expressed 15, meiosis and synapsis associated [Source:VGNC Symbol;Acc:VGNC:78318]	-	1.539139515	5.65E-09	1.60E-07
ENSMMUG00000022625	periaxin [Source:VGNC Symbol;Acc:VGNC:76248]	-	1.538335463	0.000364473	0.002926609
ENSMMUG00000058332	testis expressed 46 [Source:NCBI gene;Acc:709002]	-	1.534778012	0.005032005	0.02527886
ENSMMUG00000052817	Sp7 transcription factor [Source:NCBI gene;Acc:702575]	-	1.534756405	0.001932219	0.01159153
ENSMMUG00000014049	collagen type VI alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:71303]	-	1.534512671	0.002870124	0.016045985
ENSMMUG00000005442	5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]	-	1.534066479	7.01E-05	0.000724027
ENSMMUG00000013008	cleavage stimulation factor subunit 2 [Source:VGNC Symbol;Acc:VGNC:71536]	-	1.532723112	0.000775579	0.005466548
ENSMMUG00000053008		-	1.531047981	0.000269364	0.002278531
ENSMMUG00000050177		-	1.530694014	1.17E-05	0.000150302
ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]	-	1.527634244	0.000851555	0.00590266
ENSMMUG00000058281	ITPRIP like 2 [Source:NCBI gene;Acc:694060]	-	1.526536053	1.15E-08	3.02E-07

ENSMMUG00000057143	transmembrane protein 127 [Source:NCBI gene;Acc:705069]	-	1.526311429	5.81E-06	8.19E-05
ENSMMUG00000032892	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	-1.52499835	0.001718059	0.010570665
ENSMMUG00000023083	A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]	-	1.524380481	0.00016831	0.001514051
ENSMMUG00000013503	mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]	-	1.519718326	0.007270896	0.034158995
ENSMMUG00000014955	nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]	-	1.518223366	0.000843735	0.00585471
ENSMMUG00000052526	RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]	-	-1.51749334	1.24E-13	7.19E-12
ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]	-	-1.51706458	5.11E-05	0.000553687
ENSMMUG00000012481	importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]	-	1.512333675	9.71E-05	0.000946876
ENSMMUG00000043411	zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]	-	1.508961171	0.000149605	0.001374202
ENSMMUG00000052460		-	1.508431865	0.000754264	0.005331752
ENSMMUG00000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]	-	1.508092346	2.29E-05	0.000273409
ENSMMUG00000002113	NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]	-	1.507280644	1.29E-08	3.37E-07
ENSMMUG00000002678	integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]	-	1.506196391	9.76E-05	0.000949598
ENSMMUG00000012486	retinoic acid receptor alpha [Source:VGNC Symbol;Acc:VGNC:76662]	-	1.500129925	5.98E-05	0.000632568
ENSMMUG00000020993	cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]	-	1.498179109	0.002971409	0.016517165
ENSMMUG00000054615		-	1.494348075	0.000468056	0.003559803
ENSMMUG00000017173	heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]	-	1.493252571	0.008649862	0.039108227
ENSMMUG00000050269	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]	-	1.493108989	3.65E-06	5.40E-05
ENSMMUG00000049563		-	1.492349967	5.98E-08	1.34E-06
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]	-	1.490366317	0.002026548	0.012023999
ENSMMUG00000021197	TBC1 domain family member 4 [Source:VGNC Symbol;Acc:VGNC:78166]	-	1.485788739	0.005796903	0.028385136
ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]	-	1.483944525	2.41E-05	0.00028627
ENSMMUG00000009319	transmembrane protein 161B [Source:VGNC Symbol;Acc:VGNC:84508]	-	1.482952421	0.003277715	0.017773349
ENSMMUG00000002090	ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]	-	1.481379453	1.98E-08	4.94E-07
ENSMMUG00000060798		-	-1.4807873	9.67E-06	0.000128578
ENSMMUG00000003394	cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]	-	1.480501299	1.30E-10	4.95E-09
ENSMMUG00000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]	-	1.478630865	0.000128663	0.001198511
ENSMMUG00000043001	milk fat globule EGF and factor V/VIII domain containing [Source:NCBI gene;Acc:703501]	-	1.477019517	0.011360622	0.048396397
ENSMMUG00000050300		-	1.474553682	0.004405694	0.02268583
ENSMMUG00000005856	glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]	-	1.471991953	4.21E-06	6.13E-05

ENSMMUG00000016093	adenosine deaminase RNA specific [Source:VGNC Symbol;Acc:VGNC:69502]	-	1.470033604	1.13E-06	1.93E-05
ENSMMUG00000019978	HERV-H LTR-associating 2 [Source:VGNC Symbol;Acc:VGNC:73377]	-	1.468920643	0.008349159	0.038013577
ENSMMUG00000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]	-	1.465716208	8.42E-08	1.85E-06
ENSMMUG00000020792	Rap guanine nucleotide exchange factor 4 [Source:VGNC Symbol;Acc:VGNC:76490]	-	1.465168834	0.000482963	0.003658453
ENSMMUG00000041450	zinc finger protein 432 [Source:NCBI gene;Acc:100424341]	-	1.463270225	4.99E-08	1.13E-06
ENSMMUG00000020706	ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]	-	1.459215428	2.81E-15	2.08E-13
ENSMMUG00000003771	ubiquitin like 3 [Source:VGNC Symbol;Acc:VGNC:78701]	-	1.457486362	0.00237746	0.013766142
ENSMMUG00000020289	CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]	-	1.457387325	4.33E-07	8.09E-06
ENSMMUG00000039781	sosondowah ankyrin repeat domain family member A [Source:VGNC Symbol;Acc:VGNC:84498]	-	1.457293383	0.001986444	0.01185229
ENSMMUG00000005204	VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]	-	1.455502436	0.001996577	0.011878766
ENSMMUG00000020847	CKLF like MARVEL transmembrane domain containing 3 [Source:VGNC Symbol;Acc:VGNC:71215]	-	1.452493505	0.001099294	0.007288931
ENSMMUG00000015550	PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]	-	1.448545091	0.001120904	0.007405725
ENSMMUG00000007326	ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]	-	1.448523233	1.98E-05	0.000241748
ENSMMUG00000001209	arylsulfatase family member K [Source:VGNC Symbol;Acc:VGNC:84280]	-	1.446946379	0.001484092	0.009371086
ENSMMUG00000019371	major histocompatibility complex, class II, DP alpha [Source:NCBI gene;Acc:717992]	-	1.446340446	0.009136123	0.040893525
ENSMMUG00000002809	unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]	-	1.445100068	6.00E-05	0.000632941
ENSMMUG00000007424	nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]	-	1.442877556	8.55E-08	1.87E-06
ENSMMUG00000005895	nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]	-	1.441851656	0.00070119	0.005024095
ENSMMUG00000012449	synaptotagmin like 2 [Source:VGNC Symbol;Acc:VGNC:78123]	-	1.441646379	0.005012759	0.025211458
ENSMMUG00000021459	MYC binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75011]	-	1.441322748	4.08E-08	9.40E-07
ENSMMUG00000049661	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.440682863	3.15E-05	0.00036091
ENSMMUG00000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]	-	1.439604718	0.001417342	0.009024257
ENSMMUG00000012480	REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]	-	1.438302045	0.001472699	0.009317283
ENSMMUG00000002032	exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]	-	1.436670809	0.000163609	0.001482208
ENSMMUG00000015143	F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]	-	1.433848055	0.000585503	0.004331522
ENSMMUG00000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]	-	1.433076531	7.86E-07	1.39E-05
ENSMMUG000000053384		-	1.430574006	1.39E-08	3.62E-07
ENSMMUG00000006251	argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]	-	1.427830572	1.04E-06	1.79E-05

ENSMMUG0000003302	dystrobrevin alpha [Source:VGNC Symbol;Acc:VGNC:72007]	-	1.427593829	0.003597436	0.01910779
ENSMMUG00000057338		-	1.427552171	9.06E-08	1.98E-06
ENSMMUG00000010312	shroom family member 1 [Source:VGNC Symbol;Acc:VGNC:77299]	-	1.427361545	4.21E-08	9.69E-07
ENSMMUG00000057494	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]	-	1.426903459	0.000222994	0.001935495
ENSMMUG00000059101		-	1.424934918	0.005545436	0.027382937
ENSMMUG00000022963	solute carrier family 25 member 38 [Source:VGNC Symbol;Acc:VGNC:77571]	-	1.423934042	0.001555449	0.009726989
ENSMMUG00000007159	tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]	-	1.422611971	0.000414658	0.003237425
ENSMMUG00000010405	family with sequence similarity 171 member B [Source:VGNC Symbol;Acc:VGNC:72404]	-	1.419864305	0.000388312	0.003083679
ENSMMUG00000004178	NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]	-	-1.41963533	8.10E-06	0.000109923
ENSMMUG00000007411	integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]	-	1.419137309	8.19E-07	1.44E-05
ENSMMUG00000061372		-	1.418617988	0.006174588	0.029918394
ENSMMUG00000022430	splicing factor 3b subunit 1 [Source:VGNC Symbol;Acc:VGNC:77179]	-	1.415327799	0.003411048	0.018344722
ENSMMUG00000011573	cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]	-	-1.4116923	4.92E-07	9.11E-06
ENSMMUG00000063354		-	1.409906857	0.002591581	0.014788197
ENSMMUG00000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]	-	1.406677456	1.38E-06	2.29E-05
ENSMMUG00000033290	mml-mir-643 [Source:miRBase;Acc:MI0007886]	-	1.403277374	2.97E-05	0.000341806
ENSMMUG00000056045		-	-1.40237243	0.000114233	0.00108672
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]	-	1.402270105	8.68E-05	0.000861981
ENSMMUG00000018901	FYVE, RhoGEF and PH domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72548]	-	1.401575673	4.21E-06	6.13E-05
ENSMMUG00000016581	methyltransferase like 18 [Source:VGNC Symbol;Acc:VGNC:74606]	-	1.401362007	0.008151065	0.037334353
ENSMMUG00000011810	FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]	-	1.401099609	0.000499772	0.003755093
ENSMMUG00000005727	protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]	-	1.396986207	4.59E-06	6.62E-05
ENSMMUG00000022602	methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]	-	1.394606302	7.66E-05	0.000780326
ENSMMUG00000044958	adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]	-	1.389525645	1.45E-06	2.41E-05
ENSMMUG00000000983	aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]	-	1.388993556	1.82E-05	0.00022347
ENSMMUG00000057544		-	1.385671633	0.000118705	0.001121044
ENSMMUG00000009114	maestro heat like repeat family member 7 [Source:NCBI gene;Acc:715310]	-	1.384560798	0.001491579	0.0094092
ENSMMUG00000057199		-	1.382732739	0.010956348	0.047060435
ENSMMUG00000014314	ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]	-	-1.37935435	1.33E-06	2.22E-05
ENSMMUG00000022185	odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]	-	1.375060613	3.01E-08	7.17E-07

ENSMMUG00000016316	testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]	-	1.374993323	0.002131024	0.012540664
ENSMMUG00000021499	sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]	-	1.374787076	0.000160868	0.001458719
ENSMMUG00000022624	putative speedy protein E16 [Source:NCBI gene;Acc:718058]	-	-1.37275451	5.61E-05	0.000600194
ENSMMUG00000031296	caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]	-	1.372235761	2.22E-05	0.00026717
ENSMMUG00000047994	CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]	-	1.371627631	0.000485072	0.003670145
ENSMMUG00000038288	TMEM9 domain family member B [Source:NCBI gene;Acc:708447]	-	1.371449417	4.78E-08	1.09E-06
ENSMMUG00000060505		-	1.370652146	0.002748412	0.01549235
ENSMMUG00000000667	zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]	-	-1.37060314	0.000884029	0.00609844
ENSMMUG00000060744		-	1.364476691	0.000555626	0.004131695
ENSMMUG00000014394	DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]	-	1.364217581	3.55E-13	1.94E-11
ENSMMUG00000018976	adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]	-	1.364203922	0.003623311	0.019229484
ENSMMUG00000011049	leucine rich repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:81087]	-	1.363595904	0.001175111	0.007724536
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]	-	1.362550059	2.63E-13	1.46E-11
ENSMMUG00000049539		-	1.361986603	0.00032887	0.002687291
ENSMMUG00000002657	olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]	-	1.358425407	0.001477892	0.009336478
ENSMMUG00000015151	interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]	-	-1.3583811	0.004402954	0.022683587
ENSMMUG00000062140		-	1.357443575	0.002616859	0.014918401
ENSMMUG00000005301	ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]	-	1.355405163	3.85E-05	0.000432745
ENSMMUG00000020928	nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]	-	1.355184177	8.70E-05	0.000863683
ENSMMUG00000019836	myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]	-	-1.35494805	0.000359001	0.002893412
ENSMMUG00000020784	centrosomal protein 126 [Source:NCBI gene;Acc:701911]	-	-1.35448725	1.70E-07	3.48E-06
ENSMMUG00000055392		-	1.350257969	0.00060427	0.00443432
ENSMMUG00000002183	oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]	-	-1.34765318	0.000106411	0.001025081
ENSMMUG00000051020	zinc finger protein 467 [Source:NCBI gene;Acc:712106]	-	1.340173175	7.83E-05	0.000795175
ENSMMUG00000014334	dopamine receptor D2 [Source:VGNC Symbol;Acc:VGNC:71989]	-	1.338808743	0.005511808	0.027266956
ENSMMUG00000021496	potassium sodium-activated channel subfamily T member 1 [Source:VGNC Symbol;Acc:VGNC:73856]	-	1.336040854	3.83E-06	5.63E-05
ENSMMUG00000038667		-	1.333268533	0.008602441	0.038934522
ENSMMUG00000064804		-	1.332113686	0.000930632	0.0063725
ENSMMUG00000056662		-	1.325887687	0.000295611	0.002463617
ENSMMUG00000061239		-	1.325635182	4.26E-06	6.19E-05
ENSMMUG00000061261	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.324703764	0.009259564	0.041332524

ENSMMUG00000018356	flagellum associated containing coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:72508]	-	1.321736834	0.010543505	0.045680308
ENSMMUG00000056116		-	1.320633912	1.57E-05	0.000195596
ENSMMUG00000003261	BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]	-	1.319635668	5.77E-06	8.16E-05
ENSMMUG00000054116	T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]	-	1.318504595	0.000528457	0.003943216
ENSMMUG00000010060	serine rich single-pass membrane protein 1 [Source:VGNC Symbol;Acc:VGNC:78014]	-	1.318139037	0.007700988	0.035752421
ENSMMUG00000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]	-	1.317498798	1.15E-06	1.96E-05
ENSMMUG00000059659		-	1.313244193	0.001018935	0.006857828
ENSMMUG00000058974		-	1.308800449	0.002814906	0.015812216
ENSMMUG00000032427	neuroligin 3 [Source:NCBI gene;Acc:574216]	-	1.307655361	1.60E-09	4.96E-08
ENSMMUG00000015970	coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]	-	1.304165695	5.15E-09	1.48E-07
ENSMMUG00000003973	autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]	-	1.301831461	0.000217529	0.001896949
ENSMMUG00000037675	testis expressed 52 [Source:NCBI gene;Acc:107000723]	-	1.300227954	1.04E-07	2.25E-06
ENSMMUG00000030453	NLR family pyrin domain containing 1 [Source:NCBI gene;Acc:721648]	-	1.299799254	5.35E-09	1.53E-07
ENSMMUG00000014735	carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]	-	1.298461067	2.90E-05	0.000335225
ENSMMUG00000060221	growth differentiation factor 9 [Source:NCBI gene;Acc:712792]	-	1.296838776	7.06E-06	9.77E-05
ENSMMUG00000061344		-	-1.29168892	0.001988474	0.01185229
ENSMMUG00000021670	solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]	-	1.290050495	6.24E-05	0.000654665
ENSMMUG00000020175	mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]	-	1.289509637	0.00341136	0.018344722
ENSMMUG00000051468	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.288977023	7.54E-07	1.34E-05
ENSMMUG00000055481	regulator of G protein signaling 16 [Source:NCBI gene;Acc:715599]	-	1.288272851	0.000331487	0.002706969
ENSMMUG00000058580	tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]	-	-1.28635742	0.000128789	0.001198824
ENSMMUG00000015279	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]	-	1.284761682	4.35E-05	0.000481004
ENSMMUG00000040154	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]	-	1.283024017	0.002694597	0.015288626
ENSMMUG00000022324	formimidoyltransferase cyclodeaminase [Source:VGNC Symbol;Acc:VGNC:72825]	-	1.282923825	0.003368574	0.018182009
ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]	-	1.280275753	1.74E-06	2.82E-05
ENSMMUG00000043161	endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]	-	1.280020039	0.000520469	0.003894815
ENSMMUG00000012576	sorting nexin 6 [Source:NCBI gene;Acc:693626]	-	-1.2799515	0.002916059	0.016260759
ENSMMUG00000050975		-	1.278205479	0.001372261	0.008793311
ENSMMUG00000008199	leucine-rich repeat-containing protein 37A [Source:NCBI gene;Acc:714675]	-	-1.2776208	0.003793778	0.01994654
ENSMMUG00000055835	nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]	-	1.276864219	9.20E-05	0.000906208

ENSMMUG00000054590		-	1.273385946	3.39E-07	6.46E-06
ENSMMUG00000011214	solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]	-	1.271368558	0.001733884	0.010657924
ENSMMUG00000023676	espin [Source:NCBI gene;Acc:722532]	-	1.270592444	5.42E-07	9.93E-06
ENSMMUG00000001225	calneuron 1 [Source:VGNC Symbol;Acc:VGNC:82078]	-	1.268922059	0.000730758	0.00520956
ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]	-	1.267867519	9.89E-05	0.000961266
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]	-	1.266893569	7.43E-10	2.45E-08
ENSMMUG00000060024		-	1.264162601	0.00241431	0.013936293
ENSMMUG00000016717	polycystin 1 like 3, transient receptor potential channel interacting [Source:VGNC Symbol;Acc:VGNC:75846]	-	1.262339911	0.002081832	0.012306992
ENSMMUG00000021772	nephrocystin 3 [Source:NCBI gene;Acc:717622]	-	1.261332657	0.001707098	0.010518185
ENSMMUG00000007620	transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]	-	1.261212503	0.000708817	0.005070346
ENSMMUG00000001800	cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]	-	1.260722638	0.001867399	0.011307219
ENSMMUG00000054417		-	1.259501574	0.000226302	0.001957663
ENSMMUG00000001942	mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]	-	1.259051603	2.14E-07	4.26E-06
ENSMMUG00000046464	coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]	-	1.258914208	0.000290629	0.002428333
ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]	-	1.258638104	4.47E-09	1.29E-07
ENSMMUG00000020540	NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]	-	1.257803377	0.000193056	0.001706467
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]	-	1.256020894	0.000196844	0.001737585
ENSMMUG00000001995	chromosome 14 C11orf16 homolog [Source:NCBI gene;Acc:705319]	-	1.255362063	3.96E-06	5.81E-05
ENSMMUG00000049523	ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]	-	1.254321093	0.002868845	0.016045748
ENSMMUG00000060932	zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]	-	-1.25323158	0.001326831	0.00853673
ENSMMUG00000007626	intersectin 1 [Source:VGNC Symbol;Acc:VGNC:73806]	-	1.251181339	6.22E-05	0.00065364
ENSMMUG00000010601	solute carrier family 43 member 3 [Source:NCBI gene;Acc:706267]	-	1.249004227	0.000317646	0.002608718
ENSMMUG00000059707	MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]	-	1.247650214	0.006163678	0.029876683
ENSMMUG00000007917	carbonic anhydrase 4 [Source:NCBI gene;Acc:716919]	-	-1.24473027	6.43E-05	0.000673311
ENSMMUG00000053648	actin binding transcription modulator [Source:NCBI gene;Acc:710486]	-	1.244174971	0.00161089	0.010035001
ENSMMUG00000008214	nuclear export mediator factor [Source:VGNC Symbol;Acc:VGNC:84407]	-	1.244122936	0.003195551	0.017476049
ENSMMUG00000051966		-	1.241946389	0.000227106	0.001962005
ENSMMUG00000019262	calcium voltage-gated channel subunit alpha1 D [Source:VGNC Symbol;Acc:VGNC:70501]	-	1.241801432	0.01087968	0.046824123
ENSMMUG00000012290	GLIPR1 like 2 [Source:VGNC Symbol;Acc:VGNC:81413]	-	1.238971668	0.009471494	0.042075354

ENSMMUG0000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]	1.235898552	0.000766464	0.005411117
ENSMMUG00000010495	MAPK activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74654]	-1.23476581	0.00832019	0.037934922
ENSMMUG00000019325	mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]	1.233669723	2.45E-06	3.84E-05
ENSMMUG00000022680	alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]	1.232758578	0.004203019	0.021806628
ENSMMUG00000055477		1.231587778	0.000118034	0.001116947
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]	1.228670947	1.58E-07	3.25E-06
ENSMMUG00000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]	1.228269583	0.001096932	0.007277625
ENSMMUG00000050544		1.227983375	0.001350235	0.008669296
ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]	1.227222185	1.99E-08	4.97E-07
ENSMMUG00000060894	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.225911064	0.000780718	0.005493813
ENSMMUG00000023778	F-box protein 32 [Source:VGNC Symbol;Acc:VGNC:72517]	1.225852902	0.005418646	0.02684702
ENSMMUG00000059038	5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]	1.223820297	0.001885948	0.011377061
ENSMMUG00000011986	chibby family member 2 [Source:VGNC Symbol;Acc:VGNC:78029]	1.222790131	0.002668547	0.015167353
ENSMMUG00000032252	UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]	1.221883322	2.45E-08	5.96E-07
ENSMMUG00000050952		1.215325029	0.008253747	0.037724771
ENSMMUG00000042668	cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]	1.212948619	0.001798533	0.01098765
ENSMMUG00000021572	solute carrier family 39 member 9 [Source:VGNC Symbol;Acc:VGNC:77523]	1.211023778	2.75E-05	0.000320834
ENSMMUG00000018625	NIPA like domain containing 1 [Source:NCBI gene;Acc:704998]	1.210957685	1.79E-05	0.000219384
ENSMMUG00000004153	ATM serine/threonine kinase [Source:VGNC Symbol;Acc:VGNC:70173]	1.208844263	0.01084002	0.046715408
ENSMMUG00000019977	myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]	1.207961782	5.13E-05	0.000554583
ENSMMUG00000004287	death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]	1.207776894	0.000485813	0.003673604
ENSMMUG00000052574		1.207766492	3.82E-07	7.18E-06
ENSMMUG00000017396	3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]	1.206606284	0.004695604	0.023856757
ENSMMUG00000019892	myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]	1.205442737	1.22E-05	0.000156494
ENSMMUG00000020992	calcineurin binding protein 1 [Source:NCBI gene;Acc:700566]	-1.204406	7.26E-06	1.00E-04
ENSMMUG00000038070	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]	1.204332542	6.81E-05	0.000708335
ENSMMUG00000018746	FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]	1.204086952	0.00041038	0.003209823
ENSMMUG00000058240		1.203907135	0.005426642	0.026876376
ENSMMUG00000051112	p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]	1.202832345	0.002618732	0.014918401

ENSMMUG00000032973	mml-mir-550 [Source:miRBase;Acc:MI0007826]	-1.20218011	0.003260907	0.017711816
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]	1.202000709	6.14E-09	1.73E-07
ENSMMUG00000015004	TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]	-1.20199626	0.005060988	0.025394967
ENSMMUG00000011269	CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]	1.201249736	6.67E-06	9.27E-05
ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]	1.199736042	4.35E-07	8.11E-06
ENSMMUG00000000797	exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]	1.198913678	4.13E-05	0.000460575
ENSMMUG00000009087	HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]	1.198897792	5.99E-05	0.000632941
ENSMMUG000000054711		1.197489972	1.49E-05	0.000186548
ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]	1.197071621	0.000782895	0.005503166
ENSMMUG00000008795	polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]	1.195525969	3.28E-05	0.000373538
ENSMMUG000000050458		1.194960122	3.45E-06	5.14E-05
ENSMMUG000000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]	1.194949581	0.000305294	0.002530537
ENSMMUG00000015380	proline and serine rich coiled-coil 1 [Source:VGNC Symbol;Acc:VGNC:76307]	1.194071448	2.16E-06	3.43E-05
ENSMMUG00000008710	protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]	1.192396898	0.003273947	0.017763724
ENSMMUG00000000413	solute carrier family 7 member 7 [Source:VGNC Symbol;Acc:VGNC:77631]	1.191724997	4.62E-05	0.000506361
ENSMMUG000000061796		1.191051292	0.003450318	0.018515851
ENSMMUG000000057697		1.190001581	0.002631672	0.014977446
ENSMMUG000000055845	ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]	1.187865858	0.000296961	0.002473275
ENSMMUG00000013848	fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]	1.187477864	0.001119261	0.007398642
ENSMMUG00000006128	peptidase D [Source:VGNC Symbol;Acc:VGNC:82205]	-1.18591087	0.000873542	0.006038938
ENSMMUG00000023752	SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]	-1.18479049	0.001787628	0.010934028
ENSMMUG000000050923		1.184693325	8.19E-05	0.000823518
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]	1.183355298	1.38E-07	2.89E-06
ENSMMUG00000016857	prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]	1.181315938	2.48E-05	0.000294286
ENSMMUG00000015522	GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]	1.181111205	0.000121843	0.001144023
ENSMMUG000000037625		1.180708791	0.003069697	0.016949954
ENSMMUG000000063463		1.179147057	0.003548013	0.018907195
ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]	1.175799247	2.27E-05	0.000271685
ENSMMUG00000008941	DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]	1.173029787	2.96E-07	5.74E-06
ENSMMUG00000013053	sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]	-1.17251932	0.000233862	0.00201277

ENSMMUG00000060319	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.170947468	0.002497956	0.014354949
ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]	-	1.167839852	0.004504443	0.023101207
ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]	-	1.166587797	1.69E-06	2.75E-05
ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]	-	1.165806191	6.96E-05	0.000721859
ENSMMUG00000006217	general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]	-	1.165711634	0.010478269	0.045488797
ENSMMUG00000006775	proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]	-	1.164597324	5.06E-05	0.000549691
ENSMMUG00000044214		-	1.163809384	1.33E-05	0.000169415
ENSMMUG000000051641		-	1.163423903	0.000157404	0.001431894
ENSMMUG00000016286	protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]	-	1.163274192	8.25E-06	0.000111456
ENSMMUG000000056306		-	1.160500832	2.94E-05	0.000338522
ENSMMUG000000063703		-	1.159817269	0.00390849	0.02049154
ENSMMUG000000052676		-	1.159315123	3.56E-05	0.000403658
ENSMMUG00000000717	CD3e molecule associated protein [Source:NCBI gene;Acc:714440]	-	1.158786346	0.000504486	0.003788317
ENSMMUG00000008009	family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]	-	1.158638486	0.002077412	0.012287283
ENSMMUG00000022442	single stranded DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:77886]	-	1.158065036	9.31E-06	0.000124128
ENSMMUG00000009001	transmembrane 131 like [Source:VGNC Symbol;Acc:VGNC:79781]	-	1.157557073	0.01135071	0.048385943
ENSMMUG000000053845		-	1.156393934	0.000735009	0.00523175
ENSMMUG00000022636	GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]	-	1.156036819	0.00086377	0.005977746
ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]	-	1.155570879	0.000172679	0.001546363
ENSMMUG00000022589	prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]	-	1.153556375	0.000204887	0.001804901
ENSMMUG00000010682	fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]	-	1.151493291	2.52E-06	3.93E-05
ENSMMUG00000017243	ring finger protein 165 [Source:VGNC Symbol;Acc:VGNC:76877]	-	1.151217808	0.007228544	0.034009276
ENSMMUG00000020061	protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]	-	1.149166581	2.25E-05	0.000270128
ENSMMUG000000051261		-	1.148438468	0.009532315	0.042244304
ENSMMUG00000003621	AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]	-	-1.1461429	1.41E-07	2.93E-06
ENSMMUG000000056054	zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]	-	1.143367026	1.62E-07	3.32E-06
ENSMMUG00000009303	coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]	-	1.143139121	0.001526828	0.009596746
ENSMMUG000000053889	olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]	-	1.142798149	0.010000829	0.043815524
ENSMMUG00000018332	family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]	-	1.140971048	1.59E-05	0.00019693

ENSMMUG00000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]	1.140781966	0.000687487	0.004936816
ENSMMUG000000062866		1.139372893	0.001574144	0.009829686
ENSMMUG00000003877	KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]	1.138452844	0.006801112	0.032326458
ENSMMUG000000011593	regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]	1.133214828	9.63E-06	0.000128179
ENSMMUG000000061779		1.132833793	0.000209613	0.00183887
ENSMMUG000000064089		1.132284454	1.81E-08	4.57E-07
ENSMMUG000000014307	myostatin [Source:VGNC Symbol;Acc:VGNC:74870]	1.131775383	1.23E-06	2.07E-05
ENSMMUG000000050773		1.130993248	0.001968975	0.01178479
ENSMMUG00000001640	SIX homeobox 4 [Source:NCBI gene;Acc:703798]	1.129405713	0.001269723	0.008233844
ENSMMUG00000008212	tenomodulin [Source:VGNC Symbol;Acc:VGNC:79087]	1.127383112	0.000452508	0.003464155
ENSMMUG000000064202		1.127297416	0.00720367	0.033941474
ENSMMUG000000060503	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.127111667	0.006351599	0.030596108
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]	1.127016647	0.000309268	0.00255935
ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]	1.126252035	2.54E-06	3.95E-05
ENSMMUG00000007524	RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]	1.124130926	9.57E-05	0.000936078
ENSMMUG000000038560	eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]	1.123927437	1.09E-07	2.33E-06
ENSMMUG000000018685	chromodomain helicase DNA binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71029]	1.123767429	4.51E-06	6.52E-05
ENSMMUG000000015640	AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]	1.123032905	0.000170948	0.001534038
ENSMMUG000000013552	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	1.121294142	1.10E-06	1.87E-05
ENSMMUG000000044782		1.120621158	2.45E-06	3.84E-05
ENSMMUG00000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]	1.120593189	3.08E-06	4.66E-05
ENSMMUG000000010689	fermitin family member 2 [Source:VGNC Symbol;Acc:VGNC:82144]	1.119871618	5.78E-05	0.000613306
ENSMMUG000000012203	aryl hydrocarbon receptor [Source:NCBI gene;Acc:714254]	1.119212645	0.000168812	0.001516967
ENSMMUG000000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]	1.118513021	4.68E-10	1.60E-08
ENSMMUG00000003288	glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]	1.116676589	0.00013411	0.001243006
ENSMMUG00000002337	aquarius intron-binding spliceosomal factor [Source:VGNC Symbol;Acc:VGNC:69925]	1.115578649	0.006293478	0.030369716
ENSMMUG000000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.115254634	0.000841032	0.005845327
ENSMMUG000000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]	1.114035509	1.68E-06	2.73E-05

ENSMMUG00000012156	zinc finger CCHC-type containing 17 [Source:VGNC Symbol;Acc:VGNC:79840]	-	1.113843873	1.05E-07	2.26E-06
ENSMMUG00000048302	ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]	-	1.111710403	3.82E-07	7.18E-06
ENSMMUG00000013920	triggering receptor expressed on myeloid cells 2 [Source:VGNC Symbol;Acc:VGNC:79089]	-	1.111457658	0.000600723	0.004416422
ENSMMUG00000012029	sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]	-	1.108739505	0.000207348	0.001824104
ENSMMUG00000009519	WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]	-	-1.10846667	0.001108468	0.007342255
ENSMMUG00000006187	angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]	-	1.107756137	0.000218185	0.001900111
ENSMMUG00000017414	calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]	-	1.107577126	0.000467664	0.003559187
ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]	-	1.106265967	3.23E-08	7.67E-07
ENSMMUG00000010879	NAD kinase [Source:VGNC Symbol;Acc:VGNC:75047]	-	1.104532501	0.009350321	0.0416581
ENSMMUG00000040854	aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]	-	1.104206928	0.001222414	0.007978895
ENSMMUG00000020435	amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]	-	1.103044166	0.000456586	0.003491257
ENSMMUG00000017259	DnaJ heat shock protein family (Hsp40) member C6 [Source:NCBI gene;Acc:698682]	-	1.101476472	0.001987312	0.01185229
ENSMMUG00000015311	leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]	-	1.101256291	3.69E-08	8.59E-07
ENSMMUG00000013862	ArfGAP with coiled-coil, ankyrin repeat and PH domains 3 [Source:VGNC Symbol;Acc:VGNC:69434]	-	1.100314502	0.000160193	0.001454291
ENSMMUG00000054302	antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]	-	-1.09185396	0.001379624	0.008836128
ENSMMUG00000028701		-	1.091850509	0.009855521	0.043383165
ENSMMUG00000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]	-	1.091068293	1.36E-05	0.000171687
ENSMMUG00000052889	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.087693807	0.000352594	0.002854185
ENSMMUG00000054817	immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]	-	1.087157418	0.009889305	0.043484793
ENSMMUG00000017939	FA core complex associated protein 24 [Source:VGNC Symbol;Acc:VGNC:72388]	-	1.086946747	0.004317116	0.022291642
ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]	-	1.086353292	2.19E-05	0.000264257
ENSMMUG00000049196	dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]	-	1.082145967	4.05E-06	5.94E-05
ENSMMUG00000023137	zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]	-	1.081848802	0.001202977	0.007871823
ENSMMUG00000004974	tripartite motif containing 21 [Source:VGNC Symbol;Acc:VGNC:78556]	-	1.081047075	0.000567884	0.004210778
ENSMMUG00000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]	-	1.080303837	5.87E-07	1.07E-05
ENSMMUG00000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]	-	1.079481415	0.000396103	0.003126421
ENSMMUG00000048823		-	1.078187496	0.000174487	0.001558258
ENSMMUG00000007868	AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]	-	1.076519479	0.000363147	0.002919579
ENSMMUG00000011845	hexokinase 2 [Source:VGNC Symbol;Acc:VGNC:73475]	-	1.076100751	0.002792293	0.015712399

ENSMMUG00000022163	solute carrier family 1 member 5 [Source:VGNC Symbol;Acc:VGNC:77413]	-1.07589907	0.009347508	0.0416581
ENSMMUG00000028736	hydroxysteroid 17-beta dehydrogenase 14 [Source:NCBI gene;Acc:106994816]	1.074513408	0.00252445	0.014475148
ENSMMUG00000054462		-		
ENSMMUG00000013093	uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]	1.074065982	8.13E-05	0.000817354
ENSMMUG00000006197	plasminogen receptor with a C-terminal lysine [Source:VGNC Symbol;Acc:VGNC:76098]	-		
ENSMMUG00000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]	1.073686647	5.80E-07	1.05E-05
ENSMMUG00000017615	zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]	-		
ENSMMUG00000031202	RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]	1.073580017	0.000431891	0.003339371
ENSMMUG00000047741	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-		
ENSMMUG00000017351	stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]	1.072736575	0.00377758	0.019885547
ENSMMUG00000058016	bMERB domain containing 1 [Source:NCBI gene;Acc:713757]	-		
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]	1.072159341	1.61E-08	4.08E-07
ENSMMUG00000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]	-		
ENSMMUG00000018057	uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]	1.072146344	0.000808216	0.005660647
ENSMMUG00000013707	heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]	-1.07137656	0.000791529	0.005554827
ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]	-		
ENSMMUG00000040506	H2B clustered histone 18 [Source:HGNC Symbol;Acc:HGNC:24700]	1.070959813	0.000411118	0.003213655
ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]	-		
ENSMMUG00000063668	cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]	1.070653355	0.00108455	0.007213288
ENSMMUG00000013812	ubiquitin specific peptidase 44 [Source:VGNC Symbol;Acc:VGNC:79221]	-		
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]	1.070478262	0.00073277	0.005218672
ENSMMUG000000011702	tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]	-		
ENSMMUG00000044759		1.070172827	0.004029361	0.021014868
ENSMMUG00000062443		-		
ENSMMUG00000015375	cadherin EGF LAG seven-pass G-type receptor 2 [Source:VGNC Symbol;Acc:VGNC:71149]	1.069200522	0.003970639	0.020767036
ENSMMUG00000055272	putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]	-		
ENSMMUG00000000117	HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]	1.069147306	8.13E-06	0.000110117
ENSMMUG00000002775	U2 snRNP associated SURP domain containing [Source:VGNC Symbol;Acc:VGNC:79889]	-1.06860685	5.89E-05	0.000624119
ENSMMUG00000015309	F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]	-1.0685303	0.006191273	0.029976849
ENSMMUG00000059080		-		
ENSMMUG00000061186		1.067083939	0.000351826	0.002849748
		-		
		1.066901445	0.0066699	0.031819346
		-		
		1.066261783	0.004422675	0.022764235
		-1.06516281	5.73E-05	0.000608928
		-		
		1.064134951	0.0085002	0.03852553
		-		
		1.059376501	4.83E-05	0.000527119
		-		
		1.058431162	0.000981251	0.006662854
		-		
		1.057132101	3.10E-06	4.68E-05
		-		
		1.057040979	0.002978752	0.0165322
		-		
		1.056084315	0.003639932	0.019301906
		-		
		1.055190648	0.01078994	0.046530496
		-1.05486763	5.68E-06	8.05E-05
		-		
		1.054590084	0.011678056	0.049375839
		-		
		1.053442665	0.001658656	0.010263574

ENSMMUG00000059353	phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]	-	1.053397103	3.92E-05	0.000439658
ENSMMUG00000023679	tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]	-	1.051458224	0.000428943	0.00332098
ENSMMUG00000008539	uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]	-	1.051148558	3.83E-06	5.63E-05
ENSMMUG00000019265	zinc finger protein 575 [Source:VGNC Symbol;Acc:VGNC:79667]	-	1.050302601	0.003102847	0.017074871
ENSMMUG00000003712	zinc finger protein 615 [Source:VGNC Symbol;Acc:VGNC:79454]	-	1.044624518	0.008359622	0.038034521
ENSMMUG00000022202	basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]	-	1.042786312	8.36E-05	0.000835235
ENSMMUG00000064237		-	-1.04241093	0.000219871	0.001910952
ENSMMUG00000001008	spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]	-	1.041856138	7.30E-05	0.000748049
ENSMMUG000000051552		-	1.041419163	0.006028393	0.02929754
ENSMMUG00000061260	Spi-C transcription factor [Source:NCBI gene;Acc:695809]	-	1.040448342	0.000439823	0.003385021
ENSMMUG00000000388	plectin [Source:VGNC Symbol;Acc:VGNC:76173]	-	1.038800904	0.000357375	0.002885683
ENSMMUG00000018058	ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]	-	1.037739181	0.008853549	0.03987631
ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]	-	1.037513234	0.002810605	0.015801738
ENSMMUG00000013094	lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]	-	1.034366731	1.76E-05	0.000216117
ENSMMUG00000007256	splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]	-	1.033807375	0.000394336	0.00311626
ENSMMUG00000005801	glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]	-	1.030938795	0.000814642	0.005698539
ENSMMUG00000021837	seryl-tRNA synthetase 1 [Source:NCBI gene;Acc:695046]	-	1.030768053	2.28E-05	0.000272293
ENSMMUG00000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]	-	-1.0299646	2.36E-06	3.71E-05
ENSMMUG00000013510	FMR1 autosomal homolog 2 [Source:NCBI gene;Acc:721889]	-	1.028588133	0.002405011	0.013907049
ENSMMUG00000023810	methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]	-	1.028505436	2.53E-05	0.000298239
ENSMMUG00000014350	MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]	-	1.028236556	0.000735906	0.005235258
ENSMMUG00000007570	veal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]	-	1.028117628	3.79E-06	5.59E-05
ENSMMUG00000008459	pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]	-	-1.02704187	0.004755692	0.024114834
ENSMMUG00000043458	transmembrane protein 178A [Source:NCBI gene;Acc:714010]	-	-1.02677672	0.001490764	0.009408632
ENSMMUG00000007692	apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]	-	1.026136184	3.57E-06	5.29E-05
ENSMMUG00000016543	CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]	-	-1.02503381	0.008345912	0.038012129
ENSMMUG00000006713	cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]	-	1.022839998	0.000121509	0.00114171
ENSMMUG00000022631	ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]	-	1.022487135	0.007509634	0.035039556
ENSMMUG00000017678	kelch like family member 28 [Source:VGNC Symbol;Acc:VGNC:74085]	-	1.021666307	0.010520187	0.045609738
ENSMMUG00000062538	adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]	-	-1.02148235	0.002839355	0.015915107
ENSMMUG00000049997		-	1.021344593	0.000277796	0.002333451

ENSMMUG00000049948		-	1.020890622	0.000656617	0.004749311
ENSMMUG00000017892	RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]	-	1.020154289	0.003865601	0.020283815
ENSMMUG00000007724	aprataxin [Source:VGNC Symbol;Acc:VGNC:69838]	-	1.017886866	1.10E-05	0.000143195
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]	-	-1.01732091	2.13E-05	0.000258309
ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]	-	1.016661082	2.63E-06	4.07E-05
ENSMMUG00000001121	zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]	-	1.016660386	0.004891338	0.024658119
ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]	-	1.016386844	2.29E-05	0.000273195
ENSMMUG00000020036	Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]	-	1.015760134	0.003234811	0.017644315
ENSMMUG00000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	-	1.015126817	0.000121433	0.00114171
ENSMMUG00000009695	BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]	-	1.014666688	0.00190715	0.011472961
ENSMMUG00000060665		-	1.013153303	0.006058881	0.029434684
ENSMMUG00000023446	tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]	-	1.011471172	0.001414114	0.009012544
ENSMMUG00000010252	FERM and PDZ domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72802]	-	1.010725381	0.010937329	0.047025441
ENSMMUG00000054660	R-spondin 2 [Source:NCBI gene;Acc:697376]	-	1.009753703	0.000938483	0.006419482
ENSMMUG00000015168	transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]	-	1.008923532	0.006459079	0.031018878
ENSMMUG00000047974	aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]	-	1.008256571	5.71E-06	8.09E-05
ENSMMUG00000049437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	1.007872597	0.004642497	0.023670761
ENSMMUG00000050271		-	1.007695304	0.009856163	0.043383165
ENSMMUG00000000718	ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]	-	-1.00660546	0.000407304	0.003191809
ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]	-	1.006444774	1.90E-07	3.81E-06
ENSMMUG00000053624		-	1.005662978	0.004750905	0.024099977
ENSMMUG00000004362	Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]	-	1.003968515	0.000961611	0.006553542
ENSMMUG00000012124	ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]	-	1.003349304	0.010902548	0.046891438
ENSMMUG00000018814	diacylglycerol kinase alpha [Source:VGNC Symbol;Acc:VGNC:71780]	-	0.998753959	0.005743725	0.028188567
ENSMMUG00000063262		-	0.997916134	5.33E-05	0.000574147
ENSMMUG00000012129	tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]	-	0.997387167	6.48E-05	0.000677634
ENSMMUG00000003325	pyridoxamine 5'-phosphate oxidase [Source:VGNC Symbol;Acc:VGNC:76141]	-	0.997137107	0.000491614	0.003710987
ENSMMUG00000020510	kelch like family member 41 [Source:VGNC Symbol;Acc:VGNC:74062]	-	0.993468276	0.000229907	0.001982549
ENSMMUG00000023811	boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]	-	0.992760093	0.00082404	0.005755529

ENSMMUG0000002244	early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]	-	0.992389003	7.40E-05	0.00075621
ENSMMUG00000011359	eukaryotic translation initiation factor 3 subunit E [Source:VGNC Symbol;Acc:VGNC:83997]	-	-0.99142225	0.009489519	0.04208339
ENSMMUG00000009425	actin, cytoplasmic 2-like [Source:NCBI gene;Acc:705671]	-	0.991334455	0.000153625	0.001403101
ENSMMUG00000012110	smoothened, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]	-	0.989620267	0.001412884	0.009009135
ENSMMUG00000057021	CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]	-	-0.98954637	0.008430077	0.038301359
ENSMMUG00000043504		-	0.989240506	0.000166669	0.001500833
ENSMMUG00000007244	OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]	-	0.987995725	0.000315666	0.002600691
ENSMMUG00000007310	solute carrier family 25 member 12 [Source:VGNC Symbol;Acc:VGNC:77430]	-	0.987496327	0.000408989	0.00320087
ENSMMUG00000018657	dedicator of cytokinesis 9 [Source:VGNC Symbol;Acc:VGNC:71835]	-	-0.98727396	0.003195951	0.017476049
ENSMMUG00000003029	protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]	-	0.986874018	5.30E-06	7.58E-05
ENSMMUG00000065031		-	0.986331241	1.51E-05	0.000188868
ENSMMUG00000061834		-	0.985115086	0.002875731	0.01606587
ENSMMUG00000061433		-	0.984673558	0.002188859	0.012851873
ENSMMUG00000022697	STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]	-	0.984593488	1.95E-05	0.000238207
ENSMMUG00000002121	armadillo like helical domain containing 4 [Source:VGNC Symbol;Acc:VGNC:82106]	-	0.984279273	0.002267459	0.01322956
ENSMMUG00000008713	myosin binding protein H like [Source:NCBI gene;Acc:698183]	-	0.982785164	0.000153653	0.001403101
ENSMMUG00000009775	caveolae associated protein 4 [Source:NCBI gene;Acc:714379]	-	0.982639498	2.27E-05	0.000271685
ENSMMUG00000057627		-	0.982173224	0.001395131	0.008926635
ENSMMUG00000008396	methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]	-	0.981200615	2.57E-06	3.99E-05
ENSMMUG00000007561	zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]	-	0.981134562	0.003755561	0.019777664
ENSMMUG00000062006	methionyl aminopeptidase 2 [Source:NCBI gene;Acc:712400]	-	0.980022373	0.000490183	0.00370234
ENSMMUG00000051670		-	0.979809438	0.004765185	0.024151266
ENSMMUG00000052791		-	0.979425423	0.003258148	0.017704856
ENSMMUG00000005923	failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]	-	0.976279321	0.006761866	0.03216348
ENSMMUG00000021806	vestigial like family member 4 [Source:VGNC Symbol;Acc:VGNC:79755]	-	0.974404572	0.001796169	0.010978372
ENSMMUG00000007968	hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]	-	0.973526928	0.00251715	0.014439674
ENSMMUG00000064458		-	0.973420804	0.005226669	0.026055038
ENSMMUG00000021620	ELKS/RAB6-interacting/CAST family member 2 [Source:VGNC Symbol;Acc:VGNC:72164]	-	0.973211459	5.52E-06	7.85E-05
ENSMMUG00000044344	vasorin [Source:NCBI gene;Acc:100426861]	-	0.973122238	0.00591998	0.028835458

ENSMMUG00000019146	DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]	-	0.971476509	0.001445363	0.009184638
ENSMMUG00000047027	zinc finger protein 100-like [Source:NCBI gene;Acc:693860]	-	0.971301707	0.005015623	0.025216086
ENSMMUG00000030381	arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]	-	0.971242029	0.000575615	0.0042608
ENSMMUG00000063482		-	0.969950098	0.01129504	0.048227852
ENSMMUG00000022293	FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]	-	-0.96976891	2.48E-06	3.88E-05
ENSMMUG00000049575	T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]	-	0.969533682	0.00284138	0.015919581
ENSMMUG00000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]	-	0.969291129	8.82E-05	0.00087331
ENSMMUG00000020202	melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]	-	0.969193683	0.00732493	0.034348326
ENSMMUG00000047015	ral-GDS-related protein-like [Source:NCBI gene;Acc:106995524]	-	-0.96824274	0.006712489	0.031987239
ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]	-	0.966703253	7.44E-05	0.000760602
ENSMMUG00000022359	solute carrier family 38 member 2 [Source:VGNC Symbol;Acc:VGNC:77469]	-	0.966436841	0.000421265	0.003279376
ENSMMUG00000003120	HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]	-	0.966284767	0.003254512	0.017704856
ENSMMUG00000047276	GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]	-	-0.96577837	0.001287894	0.008330863
ENSMMUG00000065035	kallikrein-2 [Source:NCBI gene;Acc:719436]	-	0.965748188	0.007506859	0.03503921
ENSMMUG00000063655	sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]	-	0.965623632	0.001235722	0.008057654
ENSMMUG00000018285	cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]	-	0.965497895	3.09E-05	0.000354543
ENSMMUG00000061458	zinc finger protein 681 [Source:NCBI gene;Acc:698090]	-	0.964454953	0.005611015	0.027641813
ENSMMUG00000007923	phosphatidylinositol glycan anchor biosynthesis class W [Source:VGNC Symbol;Acc:VGNC:75850]	-	0.964183971	0.003550543	0.01891291
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]	-	0.964090941	1.06E-05	0.000138884
ENSMMUG00000021691	spastin [Source:VGNC Symbol;Acc:VGNC:77857]	-	0.963726745	0.002670616	0.015172464
ENSMMUG00000021168	unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]	-	0.963459118	5.12E-05	0.000553944
ENSMMUG00000055970		-	0.962682122	0.001671865	0.010325617
ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]	-	0.959319225	7.06E-05	0.000727489
ENSMMUG00000054683	dynein axonemal heavy chain 12 [Source:NCBI gene;Acc:703670]	-	0.956558609	0.003075487	0.016967484
ENSMMUG00000001482	coiled-coil domain containing 32 [Source:VGNC Symbol;Acc:VGNC:70891]	-	0.956371718	0.003060808	0.016908067
ENSMMUG00000002519	serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]	-	0.955944185	5.21E-09	1.49E-07
ENSMMUG00000044047	killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]	-	0.955675012	0.008570272	0.03880246
ENSMMUG00000018284	mutS homolog 3 [Source:VGNC Symbol;Acc:VGNC:74932]	-	-0.95525202	0.00059252	0.004367252
ENSMMUG00000021377	SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]	-	0.955032337	0.000994185	0.006729548
ENSMMUG00000065008		-	0.953705559	0.006969082	0.032984366

ENSMMUG0000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]	-0.95343205	0.000284161	0.002377355
ENSMMUG0000000353	putative methyltransferase-like protein 21E pseudogene [Source:NCBI gene;Acc:707949]	0.953309892	0.004396901	0.022667537
ENSMMUG00000058151	chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]	0.952616976	4.24E-05	0.000470695
ENSMMUG00000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]	0.952454696	0.000100705	0.000977375
ENSMMUG00000064131		0.951993997	0.004996504	0.025139446
ENSMMUG00000013032	phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]	0.949691136	0.005078602	0.025463656
ENSMMUG00000052581	upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]	0.949378695	5.62E-05	0.000600194
ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]	0.947950609	1.29E-05	0.000164006
ENSMMUG00000022678	Rh family C glycoprotein [Source:VGNC Symbol;Acc:VGNC:84427]	0.946622847	0.003702258	0.019552503
ENSMMUG00000016135	neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]	0.944572489	0.008648716	0.039108227
ENSMMUG00000018282	interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]	0.944338144	0.002146759	0.012621816
ENSMMUG00000006454	kelch like family member 18 [Source:VGNC Symbol;Acc:VGNC:74154]	0.943582763	0.007223358	0.033997203
ENSMMUG00000008918	SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]	0.943180014	0.003570388	0.018987442
ENSMMUG00000050082		0.942986496	0.010426109	0.04532474
ENSMMUG00000016753	dynein axonemal heavy chain 3 [Source:VGNC Symbol;Acc:VGNC:71941]	0.941924546	7.01E-05	0.000724027
ENSMMUG00000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]	0.941922682	4.36E-05	0.000481004
ENSMMUG00000010944	GATA binding protein 6 [Source:VGNC Symbol;Acc:VGNC:72891]	0.941777026	0.001828383	0.011122878
ENSMMUG00000060439	schlafen family member 12 like [Source:NCBI gene;Acc:106992394]	0.941090079	0.003566911	0.018977594
ENSMMUG00000004754	intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]	0.940462634	0.003091047	0.017033706
ENSMMUG00000046901	protein tyrosine phosphatase 4A2 [Source:NCBI gene;Acc:706489]	0.939357714	0.002730705	0.015412626
ENSMMUG00000058836	transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]	0.939086926	0.001311073	0.008459713
ENSMMUG00000023450	tyrosylprotein sulfotransferase 2 [Source:VGNC Symbol;Acc:VGNC:78639]	0.937956384	0.011433931	0.048628873
ENSMMUG00000003876	zinc finger and BTB domain containing 22 [Source:VGNC Symbol;Acc:VGNC:78893]	0.935922561	0.000863402	0.005977746
ENSMMUG00000015371	microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]	0.935294354	0.0060824	0.029526834
ENSMMUG00000009688	IST1 factor associated with ESCRT-III [Source:VGNC Symbol;Acc:VGNC:73675]	0.934660944	0.004356546	0.022486292
ENSMMUG00000052030	developing brain homeobox 2 [Source:NCBI gene;Acc:701170]	0.933610241	1.17E-06	1.99E-05
ENSMMUG00000023398	collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]	0.931723272	0.000316331	0.002602858
ENSMMUG00000040958	lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]	0.931343037	0.000258639	0.00220072
ENSMMUG00000005028	phosphodiesterase 4C [Source:NCBI gene;Acc:720171]	0.930325511	0.002765955	0.015584471

ENSMMUG00000057137		-	0.929371218	0.00400455	0.020927522
ENSMMUG0000004411	25-hydroxycholesterol 7-alpha-hydroxylase [Source:NCBI gene;Acc:710188]	-	0.927174409	0.000458144	0.003501103
ENSMMUG0000007485	zinc finger protein 555 [Source:VGNC Symbol;Acc:VGNC:79705]	-	0.926852842	0.003409628	0.018344722
ENSMMUG00000015737	phosphatidylinositol glycan anchor biosynthesis class A [Source:VGNC Symbol;Acc:VGNC:75984]	-	0.926712954	0.00043209	0.003339371
ENSMMUG00000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]	-	0.924496705	0.001662309	0.010276381
ENSMMUG0000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]	-	0.924382523	0.000114321	0.001086764
ENSMMUG00000062676		-	0.923246935	0.004083569	0.02123783
ENSMMUG00000021291	thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]	-	0.922734924	0.007994054	0.036797037
ENSMMUG00000023076	diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]	-	0.920496263	0.001670722	0.01032347
ENSMMUG00000058740		-	0.915740523	8.73E-05	0.000866052
ENSMMUG0000008965	piwi like RNA-mediated gene silencing 4 [Source:VGNC Symbol;Acc:VGNC:81504]	-	0.914786211	1.43E-06	2.37E-05
ENSMMUG00000017276	nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]	-	0.913196366	0.00996242	0.043702623
ENSMMUG00000001551	SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]	-	0.912386926	0.003038378	0.016805622
ENSMMUG00000014727	NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]	-	0.911857522	0.003741158	0.019717817
ENSMMUG00000000690	catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]	-	0.911675125	0.00413097	0.021475748
ENSMMUG00000051843		-	0.911464617	0.002055621	0.012174227
ENSMMUG00000014301	nectin cell adhesion molecule 2 [Source:VGNC Symbol;Acc:VGNC:75396]	-	0.911033616	0.000363812	0.002923111
ENSMMUG00000056711	ribonuclease inhibitor-like [Source:NCBI gene;Acc:114672186]	-	0.910984507	2.52E-06	3.93E-05
ENSMMUG00000053103	disintegrin and metalloproteinase domain-containing protein 20-like [Source:NCBI gene;Acc:713573]	-	0.910251723	0.007452313	0.034822187
ENSMMUG00000052977	putative protein FAM106C [Source:NCBI gene;Acc:106994084]	-	0.907880183	0.00059152	0.004366077
ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]	-	0.907720038	0.000231941	0.001998449
ENSMMUG00000005634	ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]	-	0.907690761	0.00072153	0.005152765
ENSMMUG00000052651	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	-0.90709422	0.005390055	0.026743274
ENSMMUG00000007775	survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]	-	0.906203006	0.011408711	0.048537519
ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]	-	-0.90310185	0.010269685	0.044808149
ENSMMUG00000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]	-	0.902514008	0.00126102	0.008193786
ENSMMUG00000046282		-	0.900848029	7.31E-06	0.000100339
ENSMMUG00000007257	synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]	-	0.899796395	8.30E-06	0.000112091
ENSMMUG00000012307	periostin [Source:VGNC Symbol;Acc:VGNC:76039]	-	0.898484657	0.000121291	0.00114131

ENSMMUG00000060781	G protein-coupled receptor 18 [Source:NCBI gene;Acc:698714]	-	0.897269745	0.010779034	0.04649892
ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]	-	0.894554346	0.002502901	0.014370638
ENSMMUG00000053298		-	-0.89389792	0.000772659	0.005448926
ENSMMUG00000004233	leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]	-	-0.89377228	0.000651818	0.004727779
ENSMMUG00000023443	SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]	-	0.893302962	0.000707043	0.005060448
ENSMMUG00000004710	protein interacting with cyclin A1 [Source:VGNC Symbol;Acc:VGNC:76336]	-	0.893160493	0.005545382	0.027382937
ENSMMUG00000007509	myosin VA [Source:VGNC Symbol;Acc:VGNC:75116]	-	0.892859109	0.001106115	0.007330416
ENSMMUG00000013188	serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]	-	0.891580751	2.36E-05	0.000280833
ENSMMUG00000013235	collagen type IV alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:81375]	-	0.891484456	0.000730597	0.00520956
ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]	-	0.891218753	9.96E-06	0.000131792
ENSMMUG00000021775	beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]	-	0.890002522	0.008160996	0.03736665
ENSMMUG00000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]	-	0.889958049	0.000393464	0.00311127
ENSMMUG00000059663		-	0.889149711	0.002333385	0.013547207
ENSMMUG00000010978	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]	-	0.888801136	0.000144906	0.001334492
ENSMMUG00000031224	casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]	-	0.888778985	0.007728633	0.035816693
ENSMMUG00000056765		-	0.888678171	0.00011281	0.001074251
ENSMMUG00000007920	myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]	-	0.888174484	0.000645384	0.004683728
ENSMMUG00000008916	transferrin [Source:VGNC Symbol;Acc:VGNC:82716]	-	0.887459238	0.000971354	0.006606025
ENSMMUG00000000618	gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]	-	-0.88736929	0.008278417	0.037771007
ENSMMUG00000000681	calmin [Source:VGNC Symbol;Acc:VGNC:71232]	-	0.885181109	2.80E-05	0.00032435
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]	-	0.884934949	0.008235194	0.037653235
ENSMMUG00000060527		-	0.883537847	0.005449902	0.026981277
ENSMMUG00000015189	RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]	-	0.882560841	0.008257776	0.037729896
ENSMMUG00000017100	solute carrier family 4 member 1 (Diego blood group) [Source:NCBI gene;Acc:100427618]	-	0.882474759	0.000696173	0.004993664
ENSMMUG00000007293	RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]	-	0.881229343	0.002158476	0.012679214
ENSMMUG00000017355	remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]	-	0.879089437	0.007363357	0.034468586
ENSMMUG00000004223	ring finger protein 10 [Source:VGNC Symbol;Acc:VGNC:76702]	-	-0.87745318	0.001362498	0.008735066
ENSMMUG00000050862		-	0.877076494	0.008355453	0.038028887
ENSMMUG00000016812	coiled-coil domain containing 18 [Source:VGNC Symbol;Acc:VGNC:70913]	-	0.875867552	0.006614273	0.031635388
ENSMMUG00000060215	Y RNA [Source:RFAM;Acc:RF00019]	-	0.875163083	0.000104838	0.001012189

ENSMMUG00000022601	cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]	-	0.874175018	0.001805699	0.011021047
ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]	-	0.874172923	0.001629639	0.010137195
ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]	-	0.874138548	0.005230078	0.026062017
ENSMMUG00000058786	ligand of numb-protein X 2 [Source:NCBI gene;Acc:710660]	-	0.873871547	0.005660089	0.027862412
ENSMMUG00000001074	unc-51 like kinase 4 [Source:VGNC Symbol;Acc:VGNC:82565]	-	0.870742319	0.007414051	0.034655882
ENSMMUG00000059848	olfactory receptor 5B2 [Source:NCBI gene;Acc:100429465]	-	0.869680829	0.008014674	0.036878871
ENSMMUG00000052282		-	0.869567209	0.004588118	0.023420701
ENSMMUG00000003051	COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]	-	0.869089426	0.000207085	0.001823021
ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]	-	0.868824549	0.008982889	0.040346821
ENSMMUG00000010321	C2 domain containing 3 centriole elongation regulator [Source:VGNC Symbol;Acc:VGNC:70375]	-	0.868686208	0.000139616	0.001286687
ENSMMUG00000014824	SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]	-	0.868681338	2.50E-05	0.000296059
ENSMMUG00000061653		-	0.867841919	0.007952228	0.036643506
ENSMMUG00000064983		-	0.866528755	0.000992018	0.006721892
ENSMMUG00000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]	-	0.866256071	0.000808352	0.005660647
ENSMMUG00000005414	N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]	-	0.865433572	0.000128067	0.001195192
ENSMMUG00000046663	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	-	0.864992191	0.008443723	0.038345739
ENSMMUG00000047594		-	0.863096009	0.000225894	0.001955435
ENSMMUG00000001849	interleukin 5 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73731]	-	0.862910026	0.005598237	0.027610307
ENSMMUG00000010627	apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]	-	0.859790699	0.002284651	0.013317893
ENSMMUG00000022732	SRSF protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:81764]	-	0.858053821	0.000593057	0.004367483
ENSMMUG00000005622	dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]	-	0.857228388	0.001435119	0.009124007
ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]	-	0.856702972	0.001061631	0.007097531
ENSMMUG00000008093	StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]	-	0.856516409	6.34E-05	0.000664993
ENSMMUG00000040055		-	-0.8560005	0.003446122	0.018508643
ENSMMUG00000006310	solute carrier family 3 member 1 [Source:VGNC Symbol;Acc:VGNC:77462]	-	0.855923704	0.010876149	0.046824123
ENSMMUG00000052496		-	-0.85539565	9.39E-05	0.000922254
ENSMMUG00000041976	zinc finger protein 780B [Source:NCBI gene;Acc:701034]	-	0.855131505	0.001081779	0.007198548
ENSMMUG00000003565	galectin 3 [Source:VGNC Symbol;Acc:VGNC:74255]	-	0.853379996	0.008960972	0.040262318
ENSMMUG00000018525	presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]	-	0.853059803	1.03E-05	0.000135474

ENSMMUG00000029197	YY1 transcription factor [Source:NCBI gene;Acc:717370]	-	0.851085884	0.004044442	0.021076577
ENSMMUG00000050770		-	0.850254611	0.005106974	0.025586135
ENSMMUG00000002961	G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]	-	0.848826358	1.28E-05	0.00016369
ENSMMUG00000006669	ubiquitin protein ligase E3 component n-recognin 4 [Source:VGNC Symbol;Acc:VGNC:79845]	-	0.847521463	0.00021902	0.001906108
ENSMMUG00000010878	adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]	-	0.847209631	6.00E-05	0.000632941
ENSMMUG00000006311	prolyl endopeptidase like [Source:VGNC Symbol;Acc:VGNC:76346]	-	0.845992908	0.000604525	0.00443432
ENSMMUG00000023226	RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]	-	0.845782344	0.00055356	0.00411869
ENSMMUG00000003462	ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]	-	0.844127083	0.000209735	0.00183887
ENSMMUG000000059973		-	0.843175123	0.000639336	0.004650237
ENSMMUG00000046237	4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]	-	0.841324877	0.000572166	0.004237683
ENSMMUG00000017070	zinc finger and SCAN domain containing 29 [Source:VGNC Symbol;Acc:VGNC:79633]	-	-0.8375095	0.00042256	0.003285284
ENSMMUG00000004849	casein beta [Source:VGNC Symbol;Acc:VGNC:71523]	-	0.836122069	0.001975952	0.011810206
ENSMMUG00000015347	protein kinase, DNA-activated, catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76418]	-	0.835479313	0.008370136	0.038069008
ENSMMUG000000061002		-	0.835369257	0.000136973	0.001264124
ENSMMUG000000053389		-	0.832710217	0.002197	0.012891233
ENSMMUG00000006493	ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]	-	0.831691712	0.00036308	0.002919579
ENSMMUG000000056785		-	0.830199868	0.006011371	0.029258647
ENSMMUG00000018289	proline rich transmembrane protein 3 [Source:VGNC Symbol;Acc:VGNC:76324]	-	0.828235619	7.01E-05	0.000724027
ENSMMUG00000006754	tetratricopeptide repeat domain 4 [Source:VGNC Symbol;Acc:VGNC:78668]	-	0.826771845	0.006183095	0.029948429
ENSMMUG00000000205	transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]	-	0.826547111	8.09E-05	0.000815782
ENSMMUG000000050907		-	0.825818912	0.000297678	0.002477659
ENSMMUG000000021782	LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]	-	0.825407154	2.27E-05	0.000271797
ENSMMUG00000003264	leptin receptor overlapping transcript [Source:VGNC Symbol;Acc:VGNC:74158]	-	0.825230495	0.001547166	0.009693878
ENSMMUG00000012289	GLIPR1 like 1 [Source:VGNC Symbol;Acc:VGNC:81412]	-	0.824271262	0.010382363	0.045193407
ENSMMUG00000017593	CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]	-	-0.82356224	0.000128122	0.001195192
ENSMMUG00000018738	alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]	-	0.821753588	0.000343239	0.002792394
ENSMMUG00000015432	staphylococcal nuclease and tudor domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77798]	-	0.821622453	0.002743464	0.01547118
ENSMMUG00000004091	transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]	-	0.820513108	7.99E-05	0.000806592
ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]	-	0.818969354	0.011343518	0.048371178

ENSMMUG0000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]	-	0.818709837	0.000989257	0.006709998
ENSMMUG00000054107		-	0.817242325	0.008112885	0.037185729
ENSMMUG00000018279	adaptor related protein complex 5 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69868]	-	0.817145314	0.000171485	0.001537792
ENSMMUG00000006842	doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]	-	0.814128361	0.001903255	0.011454843
ENSMMUG00000010114	Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]	-	0.813472925	0.007526797	0.035081797
ENSMMUG00000013681	pleckstrin homology domain containing O1 [Source:VGNC Symbol;Acc:VGNC:76101]	-	-0.8130096	0.001634819	0.010159683
ENSMMUG00000023372	RCSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76850]	-	0.812408952	0.004807848	0.024312796
ENSMMUG00000019838	phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]	-	-0.8122457	0.002825249	0.015863452
ENSMMUG00000064514	keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]	-	0.810870659	0.000174839	0.001560324
ENSMMUG00000057209		-	0.809249933	0.00131277	0.008466455
ENSMMUG00000019923	ataxin 7 like 3 [Source:VGNC Symbol;Acc:VGNC:70128]	-	0.808580947	0.003098552	0.01705847
ENSMMUG00000008398	Myb/SANT DNA binding domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74869]	-	0.808485597	0.00403516	0.021036658
ENSMMUG00000008917	S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]	-	0.805876287	0.00199326	0.011869913
ENSMMUG00000049939		-	-0.80584693	0.00083964	0.005838782
ENSMMUG00000000662	guanylate-binding protein 1 [Source:NCBI gene;Acc:694538]	-	0.805362316	1.15E-05	0.000148921
ENSMMUG00000058142		-	0.803746955	0.002679183	0.015207823
ENSMMUG00000005613	signal transducer and activator of transcription 1 [Source:VGNC Symbol;Acc:VGNC:77904]	-	0.803733025	0.000384538	0.003063082
ENSMMUG00000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]	-	0.802405751	0.001788071	0.010934028
ENSMMUG00000040660	heparin binding growth factor [Source:NCBI gene;Acc:716742]	-	0.801249691	0.010426507	0.04532474
ENSMMUG00000029176	Rho GTPase activating protein 17 [Source:NCBI gene;Acc:701988]	-	0.801120352	0.00010509	0.001013869
ENSMMUG00000023116	LIM domain binding 2 [Source:VGNC Symbol;Acc:VGNC:74246]	-	-0.80041949	0.00209745	0.012388032
ENSMMUG00000012396	zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]	-	0.799515198	0.009042362	0.040557793
ENSMMUG00000018281	interleukin 17 receptor E [Source:VGNC Symbol;Acc:VGNC:73623]	-	0.798576481	0.001979104	0.011823594
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]	-	0.798327337	0.001514723	0.009536053
ENSMMUG00000056769	C-C motif chemokine receptor 1 [Source:VGNC Symbol;Acc:VGNC:70737]	-	0.797029646	0.007320308	0.0343414
ENSMMUG00000017048	klotho [Source:VGNC Symbol;Acc:VGNC:74026]	-	0.796519095	0.001645044	0.010208558
ENSMMUG00000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]	-	0.795240915	0.001870175	0.011318187
ENSMMUG00000002494	actinin alpha 3 [Source:NCBI gene;Acc:713811]	-	0.794750539	0.002705479	0.015316881
ENSMMUG00000009310	myelin transcription factor 1 like [Source:NCBI gene;Acc:706914]	-	0.794595044	0.001673308	0.010329609
ENSMMUG00000049484		-	0.794539152	0.000121125	0.001140581

ENSMMUG0000008919	RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]	-0.79282248	0.008720879	0.039360739
ENSMMUG00000013991	exonuclease 3'-5' domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72390]	0.791010364	0.003470785	0.018579583
ENSMMUG00000001518	zinc finger protein 518A [Source:VGNC Symbol;Acc:VGNC:79767]	0.790737557	4.94E-05	0.000537068
ENSMMUG00000004603	zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]	0.790267192	0.001553326	0.009718397
ENSMMUG000000055417		0.790016367	0.000568526	0.00421313
ENSMMUG00000014723	kaptin, actin binding protein [Source:VGNC Symbol;Acc:VGNC:74204]	0.789707705	0.011206233	0.0479343
ENSMMUG00000023698	golgi SNAP receptor complex member 1 [Source:VGNC Symbol;Acc:VGNC:73110]	0.789181494	0.000319905	0.002625612
ENSMMUG00000022935	BMP/retinoic acid inducible neural specific 2 [Source:VGNC Symbol;Acc:VGNC:70303]	0.787564312	0.009210516	0.041155528
ENSMMUG00000022120	transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]	0.786329668	0.000740684	0.005257721
ENSMMUG00000020412	parkin coregulated [Source:VGNC Symbol;Acc:VGNC:75646]	0.785118365	0.003119225	0.017143187
ENSMMUG00000015604	myosin binding protein C3 [Source:VGNC Symbol;Acc:VGNC:75094]	0.783847423	0.007593204	0.035315203
ENSMMUG000000064880		0.782128449	0.001139091	0.007511912
ENSMMUG00000020823	vinculin [Source:NCBI gene;Acc:721921]	0.781348254	0.007251742	0.034093698
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]	0.780938288	0.00056344	0.004180217
ENSMMUG000000060167		0.779179155	0.01045485	0.04540232
ENSMMUG00000020913	scavenger receptor class B member 2 [Source:VGNC Symbol;Acc:VGNC:77026]	0.775476168	0.001850231	0.011239983
ENSMMUG00000006340	solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]	0.775233277	0.001012136	0.006826134
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]	0.775147979	2.02E-05	0.000245395
ENSMMUG00000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]	0.774659665	0.00283663	0.015906705
ENSMMUG00000004493	propionyl-CoA carboxylase subunit alpha [Source:VGNC Symbol;Acc:VGNC:75773]	0.774639573	0.011631269	0.049242201
ENSMMUG00000007246	myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]	0.773234055	0.002978434	0.0165322
ENSMMUG00000002175	TPD52 like 3 [Source:HGNC Symbol;Acc:HGNC:23382]	0.771630709	0.008748373	0.039471101
ENSMMUG00000001768	zinc finger protein 616 [Source:NCBI gene;Acc:719902]	0.771558127	0.002479097	0.014259201
ENSMMUG00000006411	3'-phosphoadenosine 5'-phosphosulfate synthase 2 [Source:VGNC Symbol;Acc:VGNC:75758]	0.770547104	0.0117042	0.049438052
ENSMMUG00000002310	zinc finger protein 577 [Source:VGNC Symbol;Acc:VGNC:79733]	0.770453918	0.002843733	0.015925884
ENSMMUG00000021216	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]	0.769104458	0.002672112	0.015174321
ENSMMUG00000023401	adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]	0.768521487	0.004705486	0.023897605
ENSMMUG00000003567	DLG associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71850]	0.768451951	0.005822223	0.028469574
ENSMMUG00000012574	inositol 1,4,5-trisphosphate receptor type 1 [Source:VGNC Symbol;Acc:VGNC:73804]	0.767127861	0.004876184	0.024600839

ENSMMUG00000023117	neurotrophic receptor tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:75541]	-	0.766684305	4.57E-05	0.000500873
ENSMMUG00000013031	bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]	-	0.766626388	0.001615069	0.010056207
ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]	-	0.763665749	0.001114918	0.007377451
ENSMMUG00000011675	zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]	-	0.763188815	0.001060014	0.007097389
ENSMMUG00000020954	cell division cycle 25A [Source:VGNC Symbol;Acc:VGNC:70794]	-	0.762622161	0.010110208	0.044216398
ENSMMUG00000063858		-	0.761682804	0.003226844	0.017615284
ENSMMUG00000004624	synaptojanin 1 [Source:VGNC Symbol;Acc:VGNC:78071]	-	0.761390893	0.002050005	0.012146516
ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]	-	0.760243071	0.009191691	0.041085561
ENSMMUG00000058044		-	0.759041922	0.001914942	0.011503836
ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]	-	0.758890394	0.004015213	0.020957925
ENSMMUG00000002879	GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]	-	0.755418415	0.002667518	0.015167353
ENSMMUG00000021173	nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]	-	0.755389898	0.000450785	0.003453001
ENSMMUG00000052711		-	0.755326341	0.004937898	0.024873509
ENSMMUG00000002243	pleckstrin homology and RhoGEF domain containing G7 [Source:VGNC Symbol;Acc:VGNC:76149]	-	0.754440149	0.002423165	0.013980875
ENSMMUG00000065301		-	0.754294136	0.002704691	0.015316881
ENSMMUG00000006215	serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]	-	0.752544714	0.006740131	0.032076432
ENSMMUG00000017076	tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]	-	0.752443136	0.008823	0.039766323
ENSMMUG00000002781	peroxidase like [Source:VGNC Symbol;Acc:VGNC:84107]	-	0.752349703	0.000983813	0.006676758
ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]	-	0.752269833	0.000493529	0.003718949
ENSMMUG00000008423	septin 4 [Source:NCBI gene;Acc:714724]	-	0.751538356	3.17E-05	0.000362242
ENSMMUG00000009394	sestrin 3 [Source:VGNC Symbol;Acc:VGNC:77291]	-	0.750802891	0.000828667	0.005781066
ENSMMUG00000013466	tetratricopeptide repeat domain 39B [Source:VGNC Symbol;Acc:VGNC:79402]	-	0.749135175	5.55E-05	0.000595478
ENSMMUG00000013138	Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]	-	0.748478255	0.000989745	0.006709998
ENSMMUG00000008392	huntingtin [Source:VGNC Symbol;Acc:VGNC:73468]	-	0.746511399	0.000890457	0.006126498
ENSMMUG00000013601	chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]	-	0.746469879	0.001337316	0.008594854
ENSMMUG00000015166	NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]	-	0.745003978	1.39E-05	0.00017514
ENSMMUG00000021169	translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]	-	0.744443636	0.008815529	0.039760273
ENSMMUG00000011850	cadherin 1 [Source:VGNC Symbol;Acc:VGNC:70803]	-	0.743921253	0.000772461	0.005448926

ENSMMUG00000046171	myotubularin related protein 4 [Source:NCBI gene;Acc:714621]	-	0.742663425	0.000133914	0.001242078
ENSMMUG00000064152	netrin 5 [Source:NCBI gene;Acc:718157]	-	0.742283048	0.004663524	0.023721635
ENSMMUG00000031853	RAB5B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81546]	-	0.739959068	0.009237813	0.041263291
ENSMMUG00000065322	ATP synthase peripheral stalk-membrane subunit b [Source:NCBI gene;Acc:704072]	-	0.736852064	0.003186181	0.017446811
ENSMMUG00000017529	arrestin beta 1 [Source:VGNC Symbol;Acc:VGNC:70021]	-	0.734551537	0.004215225	0.021861217
ENSMMUG00000046195	MIS12 kinetochore complex component [Source:NCBI gene;Acc:712202]	-	0.733815581	0.007520765	0.035066274
ENSMMUG00000005466	SPOC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77997]	-	0.733426041	0.011540906	0.048987505
ENSMMUG00000021817	dopachrome tautomerase [Source:VGNC Symbol;Acc:VGNC:71749]	-	0.732998191	0.008410479	0.038225699
ENSMMUG00000012961	mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]	-	0.732964766	0.004617956	0.023563742
ENSMMUG00000002853	coronin 2A [Source:VGNC Symbol;Acc:VGNC:71451]	-	-0.73266971	0.006223208	0.03008657
ENSMMUG00000010000	keratin 7 [Source:VGNC Symbol;Acc:VGNC:74214]	-	0.732648734	6.99E-05	0.000722905
ENSMMUG00000001876	phosphoinositide-3-kinase adaptor protein 1 [Source:VGNC Symbol;Acc:VGNC:75891]	-	0.732220084	0.009097412	0.040748369
ENSMMUG00000009324	replication factor C subunit 1 [Source:NCBI gene;Acc:698987]	-	0.730812558	0.011206896	0.0479343
ENSMMUG00000032084	prolyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:75707]	-	-0.73031211	0.00444547	0.022855075
ENSMMUG00000016313	RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]	-	0.727803944	0.006280415	0.030317956
ENSMMUG00000023096	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]	-	0.727778044	0.000131076	0.001217492
ENSMMUG00000008422	trophinin [Source:NCBI gene;Acc:704512]	-	0.725733872	0.007293896	0.034242255
ENSMMUG00000010788	ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]	-	0.725391443	0.000486114	0.003673744
ENSMMUG00000012761	sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]	-	0.723021682	0.003246211	0.017676389
ENSMMUG00000017583	single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]	-	0.721672794	0.009115411	0.040814899
ENSMMUG00000019857	beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]	-	0.719174232	0.01000504	0.043815524
ENSMMUG00000020436	potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]	-	0.718693375	0.009570626	0.042399605
ENSMMUG00000002231	transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]	-	0.718191129	0.009638408	0.042622723
ENSMMUG00000014564	ring finger protein 123 [Source:VGNC Symbol;Acc:VGNC:76790]	-	0.718141884	0.000311279	0.002571076
ENSMMUG00000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]	-	0.717679588	0.011260412	0.048095823
ENSMMUG00000007301	dynein cytoplasmic 1 intermediate chain 2 [Source:VGNC Symbol;Acc:VGNC:71953]	-	0.716550757	0.007971177	0.036704755
ENSMMUG00000020004	Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]	-	0.711567451	0.002777227	0.015641186
ENSMMUG00000016475	M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]	-	0.706702374	0.002732333	0.015415108
ENSMMUG00000015414	family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]	-	-0.70632331	0.004779007	0.024195238

ENSMMUG00000052442		-	0.705182493	0.003540731	0.018876142
ENSMMUG00000043922	spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]	-	0.703112313	0.000164671	0.001489035
ENSMMUG00000008781	BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]	-	0.703088322	0.003492971	0.01866754
ENSMMUG00000063474		-	0.701897451	0.00064089	0.004658928
ENSMMUG00000017025	zinc finger CCCH-type containing 13 [Source:VGNC Symbol;Acc:VGNC:79248]	-	0.700918783	0.002646925	0.015057647
ENSMMUG00000009126	solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]	-	0.698178105	0.001992445	0.011869913
ENSMMUG00000061892		-	0.697705707	0.007709994	0.035775217
ENSMMUG00000039869		-	0.697050394	0.003108884	0.017100836
ENSMMUG00000019254	phospholipase A2 group VII [Source:VGNC Symbol;Acc:VGNC:76158]	-	0.696616384	0.008992532	0.040376156
ENSMMUG00000018939	leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]	-	0.693859026	0.003186571	0.017446811
ENSMMUG00000055590		-	0.693755353	0.00136008	0.008723877
ENSMMUG00000010351	KN motif and ankyrin repeat domains 4 [Source:VGNC Symbol;Acc:VGNC:73916]	-	0.693051815	0.005746801	0.028193004
ENSMMUG00000056064	serine and arginine rich splicing factor 1 [Source:NCBI gene;Acc:713958]	-	0.692607977	0.002403004	0.013901641
ENSMMUG00000011274	prolyl 4-hydroxylase subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:75741]	-	0.689793725	0.001631569	0.010144342
ENSMMUG00000021438	BTG anti-proliferation factor 4 [Source:VGNC Symbol;Acc:VGNC:70305]	-	0.688951224	0.004001122	0.020918035
ENSMMUG00000004329	solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]	-	-0.68786564	0.011593141	0.049144917
ENSMMUG00000004674	phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]	-	-0.68677203	0.002710388	0.015336786
ENSMMUG00000053262		-	0.684938538	0.011037331	0.047392589
ENSMMUG00000029265	zinc finger protein 598 [Source:NCBI gene;Acc:694129]	-	0.684638898	0.009441247	0.041955351
ENSMMUG00000061085		-	0.683758992	0.001726354	0.010616669
ENSMMUG00000007765	Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]	-	-0.68306336	9.71E-05	0.000946876
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]	-	0.679947137	0.007403631	0.034632128
ENSMMUG00000023397	penta-EF-hand domain containing 1 [Source:NCBI gene;Acc:706038]	-	0.679622688	0.006824837	0.032403617
ENSMMUG00000012036	RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]	-	0.678978018	0.000997919	0.006750106
ENSMMUG00000056466		-	-0.67564068	0.009479109	0.04208037
ENSMMUG00000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]	-	0.675196988	0.00659572	0.031569925
ENSMMUG00000022570	nuclear transcription factor Y subunit beta [Source:NCBI gene;Acc:700451]	-	-0.67516906	0.008393988	0.038164115
ENSMMUG00000021420	pleckstrin 2 [Source:VGNC Symbol;Acc:VGNC:76071]	-	0.673955454	0.008946682	0.040224125
ENSMMUG00000014474	SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]	-	0.673062964	0.000885428	0.006104562
ENSMMUG00000042157	caspase recruitment domain-containing protein 8 [Source:NCBI gene;Acc:718594]	-	0.671621387	0.002812478	0.015805422

ENSMMUG00000004723	vascular endothelial zinc finger 1 [Source:NCBI gene;Acc:713848]	-	0.671105069	0.004811893	0.02432377
ENSMMUG00000023136	zinc finger protein 613 [Source:VGNC Symbol;Acc:VGNC:79548]	-	0.668323268	0.001088145	0.007226087
ENSMMUG00000002185	protein activator of interferon induced protein kinase EIF2AK2 [Source:VGNC Symbol;Acc:VGNC:76421]	-	0.666704194	0.003129033	0.017182537
ENSMMUG00000011002	PYM homolog 1, exon junction complex associated factor [Source:VGNC Symbol;Acc:VGNC:76570]	-	0.666428071	0.00173678	0.010665618
ENSMMUG00000004113	major facilitator superfamily domain containing 4A [Source:VGNC Symbol;Acc:VGNC:74575]	-	0.665140879	0.005650903	0.027827751
ENSMMUG00000016893	solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]	-	0.664536433	0.01113309	0.047724803
ENSMMUG00000013475	calpain 1 [Source:VGNC Symbol;Acc:VGNC:70529]	-	0.664432068	0.005269975	0.026220551
ENSMMUG00000054493		-	-0.66286704	0.003311217	0.01794002
ENSMMUG00000057655		-	0.662401248	0.009653307	0.042663936
ENSMMUG00000022303	solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]	-	0.659856085	0.000135409	0.001252361
ENSMMUG00000014610	ring finger protein 17 [Source:NCBI gene;Acc:708198]	-	0.658007711	0.001202677	0.007871823
ENSMMUG00000008486	endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]	-	0.657572313	0.010001773	0.043815524
ENSMMUG00000003594	ubiquitin specific peptidase 13 [Source:VGNC Symbol;Acc:VGNC:78735]	-	0.656978336	0.003163227	0.017348279
ENSMMUG00000020150	xin actin binding repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:78952]	-	0.654863605	0.000243931	0.002085147
ENSMMUG00000047381	DDB1 and CUL4 associated factor 10 [Source:NCBI gene;Acc:716256]	-	0.654090698	0.002414364	0.013936293
ENSMMUG00000049364	serine palmitoyltransferase small subunit A [Source:NCBI gene;Acc:717580]	-	0.653966492	0.009841272	0.043358078
ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]	-	0.648977598	0.011062087	0.047467472
ENSMMUG00000022490	cytochrome P450, family 3, subfamily A, polypeptide 43 [Source:NCBI gene;Acc:709770]	-	0.647485901	0.001461581	0.00926954
ENSMMUG00000005048	MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]	-	0.646880292	0.003215556	0.01756105
ENSMMUG00000061846		-	0.646241846	0.004250129	0.021989501
ENSMMUG00000018053	zinc finger and BTB domain containing 21 [Source:VGNC Symbol;Acc:VGNC:78892]	-	0.645777107	0.004263354	0.022040352
ENSMMUG00000003435	transcriptional repressor GATA binding 1 [Source:VGNC Symbol;Acc:VGNC:78656]	-	0.644926739	0.000998262	0.006750106
ENSMMUG00000007043	glutaryl-CoA dehydrogenase [Source:VGNC Symbol;Acc:VGNC:72898]	-	0.641234515	0.005707817	0.028076056
ENSMMUG00000007077	APOBEC1 complementation factor [Source:VGNC Symbol;Acc:VGNC:69523]	-	0.639413072	0.005908309	0.028789417
ENSMMUG00000000547	zinc finger protein 566 [Source:VGNC Symbol;Acc:VGNC:81619]	-	0.638720686	0.005777255	0.028320988
ENSMMUG00000015463	DNA polymerase epsilon, catalytic subunit [Source:NCBI gene;Acc:698023]	-	0.636951037	0.009324738	0.041594296
ENSMMUG00000030422	radial spoke head 10 homolog B [Source:NCBI gene;Acc:100424218]	-	0.636896096	0.005725429	0.02814135
ENSMMUG00000012332	UBA domain containing 2 [Source:NCBI gene;Acc:703484]	-	0.636117092	0.007514793	0.035051025
ENSMMUG00000031856	talin 1 [Source:VGNC Symbol;Acc:VGNC:78371]	-	0.635525795	0.007965167	0.036690097

ENSMMUG00000063979		-	0.634526729	0.00029298	0.002443254
ENSMMUG00000049574	antizyme inhibitor 2-like [Source:NCBI gene;Acc:705256]	-	0.632557112	0.007714169	0.035775217
ENSMMUG00000054625		-	0.632044624	0.005255795	0.026160027
ENSMMUG00000059231		-	0.630906311	0.001527226	0.009596746
ENSMMUG00000030400	SH3 domain and tetratricopeptide repeats 1 [Source:NCBI gene;Acc:722649]	-	0.630574271	0.004267407	0.02205252
ENSMMUG00000004648	KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]	-	0.630206073	0.005207199	0.025987929
ENSMMUG00000019760	karyopherin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:74203]	-	0.628212707	0.000616564	0.004499739
ENSMMUG00000017379	myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]	-	0.627607874	0.008090473	0.037096104
ENSMMUG00000004708	SPT6 homolog, histone chaperone and transcription elongation factor [Source:VGNC Symbol;Acc:VGNC:78057]	-	0.625339955	0.010487603	0.04550995
ENSMMUG00000001941	CXXC finger protein 5 [Source:VGNC Symbol;Acc:VGNC:71594]	-	0.624257628	0.000120008	0.00113088
ENSMMUG00000017677	chromosome 7 C14orf28 homolog [Source:VGNC Symbol;Acc:VGNC:70581]	-	0.621335878	0.002122092	0.012494784
ENSMMUG00000022715	adenosylhomocysteinase like 1 [Source:VGNC Symbol;Acc:VGNC:81350]	-	0.620608141	0.007283101	0.034203953
ENSMMUG00000057700	acid sensing ion channel subunit family member 5 [Source:NCBI gene;Acc:699617]	-	0.619753934	0.004445608	0.022855075
ENSMMUG00000061176		-	0.619499249	0.001736355	0.010665618
ENSMMUG00000052090		-	0.619165333	0.001581222	0.009869135
ENSMMUG00000044652	sialic acid-binding Ig-like lectin 13 [Source:NCBI gene;Acc:719667]	-	0.619089615	0.010508217	0.045573068
ENSMMUG00000021567	neurexophilin and PC-esterase domain family member 3 [Source:VGNC Symbol;Acc:VGNC:75476]	-	0.614529747	0.000315228	0.002598725
ENSMMUG00000017508	neurofascin [Source:VGNC Symbol;Acc:VGNC:75278]	-	0.613880976	0.000721021	0.005151965
ENSMMUG00000005980	glutathione hydrolase 5 proenzyme [Source:NCBI gene;Acc:720345]	-	-0.61376946	0.002321669	0.013492773
ENSMMUG00000060822		-	0.613047351	0.011058269	0.047466788
ENSMMUG00000007078	N-acylsphingosine amidohydrolase 2 [Source:NCBI gene;Acc:703913]	-	0.610542402	0.00101895	0.006857828
ENSMMUG00000064634		-	0.609733489	0.00331103	0.01794002
ENSMMUG00000063721		-	0.608960659	0.005888821	0.028716027
ENSMMUG00000059327	NUS1 dehydrodolichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]	-	0.607591687	0.00973564	0.042954665
ENSMMUG00000009189	palmitoyl-protein thioesterase 1 [Source:VGNC Symbol;Acc:VGNC:76386]	-	0.607029306	0.00043929	0.003384293
ENSMMUG00000003897	solute carrier family 9 member A7 [Source:NCBI gene;Acc:710906]	-	0.602864943	0.007495577	0.034999139
ENSMMUG00000006599	derlin 2 [Source:VGNC Symbol;Acc:VGNC:71654]	-	0.601771888	0.006652356	0.031794098
ENSMMUG00000017725	eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]	-	0.594459448	0.004450643	0.022862842
ENSMMUG00000011963	vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]	-	0.592353015	0.001040435	0.006995176

ENSMMUG00000059910		-	0.591059958	0.003248523	0.017681555
ENSMMUG00000012601	RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]	-	-0.59049437	0.008719931	0.039360739
ENSMMUG00000065066	V-set and immunoglobulin domain containing 10 like 2 [Source:NCBI gene;Acc:717387]	-	0.589673846	0.009940861	0.043667101
ENSMMUG00000006163	malate dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:74690]	-	0.587723923	0.006250289	0.030206238
ENSMMUG00000014438	piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]	-	0.587077113	0.007334418	0.03435791
ENSMMUG00000009837	SECIS binding protein 2 like [Source:VGNC Symbol;Acc:VGNC:77325]	-	0.584674728	0.01064262	0.046017538
ENSMMUG00000008313	zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]	-	0.583773379	0.003739788	0.019717817
ENSMMUG00000006268	junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]	-	0.582317633	0.005031747	0.02527886
ENSMMUG00000010589	nebulette [Source:VGNC Symbol;Acc:VGNC:75195]	-	0.579788248	0.005356463	0.026610053
ENSMMUG00000014884	ubiquitin specific peptidase 8 [Source:VGNC Symbol;Acc:VGNC:78748]	-	0.579739208	0.001273892	0.008252635
ENSMMUG00000065091	myelin protein zero like 2 [Source:NCBI gene;Acc:699330]	-	0.579524566	0.000970635	0.006606025
ENSMMUG00000054737		-	0.577772051	0.002852375	0.015960507
ENSMMUG00000049311	zinc finger protein 558 [Source:NCBI gene;Acc:712590]	-	0.573164851	0.003461018	0.018557924
ENSMMUG00000003456	glypican 4 [Source:VGNC Symbol;Acc:VGNC:73118]	-	0.570578643	0.002963954	0.016485329
ENSMMUG00000001537	apolipoprotein L2 [Source:VGNC Symbol;Acc:VGNC:69989]	-	0.570297824	0.008266745	0.037744295
ENSMMUG00000000800	proteasome 26S subunit, non-ATPase 2 [Source:VGNC Symbol;Acc:VGNC:84144]	-	0.568767266	0.004396568	0.022667537
ENSMMUG00000012912	itchy E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:73589]	-	-0.56525444	0.00107501	0.007171892
ENSMMUG00000002018	tyrosine aminotransferase [Source:VGNC Symbol;Acc:VGNC:78100]	-	0.561899173	0.009709771	0.042869681
ENSMMUG00000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]	-	0.554208329	0.007220549	0.033996316
ENSMMUG00000022906	vascular cell adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:78761]	-	0.553642573	0.011236775	0.048026479
ENSMMUG00000012020	nuclear receptor coactivator 3 [Source:VGNC Symbol;Acc:VGNC:75147]	-	0.551278187	0.003399818	0.018305411
ENSMMUG00000020555	IQ motif and Sec7 domain ArfGEF 2 [Source:VGNC Symbol;Acc:VGNC:73676]	-	0.541525112	0.010574514	0.045788474
ENSMMUG00000051510		-	0.538589391	0.005334706	0.02651212
ENSMMUG00000059543	zinc finger protein 30 [Source:NCBI gene;Acc:718310]	-	-0.53841976	0.004928774	0.024837192
ENSMMUG00000045482	G0/G1 switch 2 [Source:NCBI gene;Acc:717581]	-	0.536677277	0.008878772	0.039976038
ENSMMUG00000008575	transient receptor potential cation channel subfamily M member 7 [Source:VGNC Symbol;Acc:VGNC:79106]	-	0.533925097	0.002989571	0.016578066
ENSMMUG00000005942	leucine carboxyl methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:74067]	-	0.532937907	0.005568094	0.027482535
ENSMMUG00000007507	chloride voltage-gated channel 2 [Source:VGNC Symbol;Acc:VGNC:71235]	-	0.531567273	0.008169244	0.037391223
ENSMMUG00000016005	DnaJ heat shock protein family (Hsp40) member C13 [Source:VGNC Symbol;Acc:VGNC:84191]	-	0.530818906	0.002367066	0.013712078

ENSMMUG00000010934	eukaryotic translation initiation factor 4 gamma 1 [Source:VGNC Symbol;Acc:VGNC:72195]	-	0.518167651	0.009151689	0.040949075
ENSMMUG00000010304	cilia and flagella associated protein 298 [Source:NCBI gene;Acc:700721]	-	0.517152494	0.002214865	0.01297776
ENSMMUG00000016522	neurolysin [Source:VGNC Symbol;Acc:VGNC:75183]	-	0.515897824	0.01169244	0.049404462
ENSMMUG00000007576	EYA transcriptional coactivator and phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:72453]	-	0.513174388	0.008035092	0.036946618
ENSMMUG00000010544	mucin 5B, oligomeric mucus/gel-forming [Source:VGNC Symbol;Acc:VGNC:75081]	-	0.505133274	0.002895975	0.016162656
ENSMMUG00000016740	defective in cullin neddylation 1 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:71684]	-	0.496106857	0.001660643	0.010270973
ENSMMUG00000030786	transient receptor potential cation channel subfamily C member 4 [Source:NCBI gene;Acc:695636]	-	0.491693776	0.010134384	0.044274668
ENSMMUG00000017685	hydroxysteroid 17-beta dehydrogenase 4 [Source:VGNC Symbol;Acc:VGNC:73530]	-	0.491534356	0.002077551	0.012287283
ENSMMUG00000002096	N-acetylglucosamine kinase [Source:VGNC Symbol;Acc:VGNC:74977]	-	0.482013586	0.001975406	0.011810206
ENSMMUG00000005646	diacylglycerol kinase delta [Source:VGNC Symbol;Acc:VGNC:71783]	-	0.468958405	0.011401078	0.048520954
ENSMMUG00000009188	cyclase associated actin cytoskeleton regulatory protein 1 [Source:NCBI gene;Acc:693719]	-	0.464391965	0.003855834	0.020248202
ENSMMUG00000003464	midasin AAA ATPase 1 [Source:VGNC Symbol;Acc:VGNC:74530]	-	0.458308087	0.006385806	0.030712462
ENSMMUG00000056693		-	0.439721377	0.006813101	0.032371585
ENSMMUG00000011557	platelet derived growth factor receptor beta [Source:VGNC Symbol;Acc:VGNC:75929]	-	0.383416652	0.006573384	0.031497869
ENSMMUG00000005960	transmembrane BAX inhibitor motif containing 6 [Source:NCBI gene;Acc:677702]	-	0.390093673	0.011647173	0.049293449
ENSMMUG00000013797	glutamine--fructose-6-phosphate transaminase 1 [Source:VGNC Symbol;Acc:VGNC:72915]	-	0.391972715	0.010527515	0.045626262
ENSMMUG00000061481	inosine triphosphatase [Source:NCBI gene;Acc:717257]	-	0.420890044	0.005247267	0.026137632
ENSMMUG00000003633	solute carrier family 4 member 11 [Source:VGNC Symbol;Acc:VGNC:77721]	-	0.422611548	0.003239813	0.017653505
ENSMMUG00000020734	golgi integral membrane protein 4 [Source:VGNC Symbol;Acc:VGNC:72945]	-	0.426363484	0.008538758	0.038686774
ENSMMUG00000003047	DAZ associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71738]	-	0.42960888	0.004261881	0.022040352
ENSMMUG00000016727	cadherin 16 [Source:VGNC Symbol;Acc:VGNC:70809]	-	0.434114557	0.007123743	0.033601487
ENSMMUG00000006820	WD repeat domain 87 [Source:NCBI gene;Acc:719441]	-	0.439392423	0.008661371	0.039132992
ENSMMUG00000061189		-	0.440986607	0.009715925	0.042882259
ENSMMUG00000008885	exocyst complex component 7 [Source:VGNC Symbol;Acc:VGNC:72319]	-	0.459068404	0.003919674	0.020541879
ENSMMUG00000006550	zinc finger CCCH-type containing, antiviral 1 [Source:VGNC Symbol;Acc:VGNC:79408]	-	0.464225708	0.010941908	0.047029544
ENSMMUG00000061710		-	0.465036646	0.003377405	0.018207398
ENSMMUG00000019184	ankyrin repeat and FYVE domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69651]	-	0.46950808	0.005737524	0.028179452
ENSMMUG00000029181	X-ray repair cross complementing 3 [Source:NCBI gene;Acc:695788]	-	0.470274026	0.007589984	0.035312882
ENSMMUG00000015114	toll like receptor adaptor molecule 2 [Source:NCBI gene;Acc:100426353]	-	0.48134646	0.011326765	0.048331506
ENSMMUG00000005775	phospholipase A and acyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:76055]	-	0.481509103	0.004064628	0.021163501
ENSMMUG00000023128	inositol 1,4,5-trisphosphate receptor type 2 [Source:VGNC Symbol;Acc:VGNC:73805]	-	0.483088965	0.00219755	0.012891233
ENSMMUG00000061384	sodium voltage-gated channel beta subunit 2 [Source:NCBI gene;Acc:678698]	-	0.483461761	0.004821769	0.024354717
ENSMMUG00000010062	shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]	-	0.486329886	0.00979384	0.043167414
ENSMMUG00000051674	IKBKB interacting protein [Source:NCBI gene;Acc:693896]	-	0.487927423	0.008887317	0.039986764
ENSMMUG00000015301	Rho GTPase activating protein 45 [Source:VGNC Symbol;Acc:VGNC:69847]	-	0.492536958	0.006817532	0.032380782
ENSMMUG00000006558	ATP binding cassette subfamily F member 3 [Source:VGNC Symbol;Acc:VGNC:69583]	-	0.496486957	0.008077241	0.037058374
ENSMMUG00000022070	sialic acid binding Ig like lectin 1 [Source:VGNC Symbol;Acc:VGNC:77220]	-	0.49979347	0.007950463	0.036643506
ENSMMUG00000054834		-	0.500911215	0.003032753	0.016781666
ENSMMUG00000021866	deoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:71946]	-	0.503646309	0.006928248	0.032810562
ENSMMUG00000005780	dynein cytoplasmic 1 heavy chain 1 [Source:VGNC Symbol;Acc:VGNC:71951]	-	0.508757282	0.001080638	0.007198548
ENSMMUG00000009938	myosin XVIII A [Source:VGNC Symbol;Acc:VGNC:75058]	-	0.508786643	0.007216169	0.033988024

ENSMMUG00000015267	C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]	0.508800747	0.003332495	0.018031317
ENSMMUG00000010058	ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]	0.514520104	0.002425227	0.013986553
ENSMMUG00000022825	carboxylesterase 2 [Source:VGNC Symbol;Acc:VGNC:71012]	0.515847816	0.000392033	0.003106233
ENSMMUG00000016742	CTD small phosphatase like 2 [Source:VGNC Symbol;Acc:VGNC:71593]	0.516227853	0.005820392	0.028469574
ENSMMUG00000042378	pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]	0.517314157	0.009878235	0.043450841
ENSMMUG00000010633	PHD finger protein 20 [Source:VGNC Symbol;Acc:VGNC:75807]	0.517730937	0.00335347	0.018116
ENSMMUG00000000695	transmembrane protein 245 [Source:VGNC Symbol;Acc:VGNC:78933]	0.520941192	0.006356222	0.030604204
ENSMMUG00000022895	DnaJ heat shock protein family (Hsp40) member B5 [Source:NCBI gene;Acc:699081]	0.520999078	0.001568233	0.00979749
ENSMMUG00000007556	kinetochore associated 1 [Source:VGNC Symbol;Acc:VGNC:74064]	0.521836908	0.009614287	0.042563968
ENSMMUG00000011459	3-phosphoinositide dependent protein kinase 1 [Source:NCBI gene;Acc:697523]	0.524511013	0.00171039	0.010533473
ENSMMUG000000059612		0.527361964	0.001193017	0.007818478
ENSMMUG00000013730	WD repeat domain 17 [Source:NCBI gene;Acc:700546]	0.528012696	0.001126747	0.007436761
ENSMMUG00000019136	taxilin beta [Source:VGNC Symbol;Acc:VGNC:79325]	0.531987215	0.003884956	0.020376392
ENSMMUG00000021012	G protein-coupled receptor 155 [Source:VGNC Symbol;Acc:VGNC:72985]	0.532979718	0.001086371	0.007220761
ENSMMUG00000008133	solute carrier family 17 member 5 [Source:VGNC Symbol;Acc:VGNC:77405]	0.534080069	0.007732989	0.035824088
ENSMMUG000000058733	zinc finger CCCH-type containing 3 [Source:NCBI gene;Acc:708584]	0.536862964	0.001516097	0.009536053
ENSMMUG00000046092	adhesion G protein-coupled receptor B3 [Source:VGNC Symbol;Acc:VGNC:81006]	0.53992136	0.008233002	0.037653235
ENSMMUG00000009017	transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:78287]	0.546058086	0.000499046	0.003753985
ENSMMUG00000012667	annexin A1 [Source:VGNC Symbol;Acc:VGNC:69944]	0.546093472	0.002360814	0.013681967
ENSMMUG000000005080	ubiquitin conjugating enzyme E2 G1 [Source:VGNC Symbol;Acc:VGNC:78695]	0.549510896	0.000656565	0.004749311
ENSMMUG000000060493		0.556986177	0.003645324	0.019314707
ENSMMUG00000012472	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]	0.560911275	0.003477963	0.01860539
ENSMMUG00000003161	microtubule associated serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:74533]	0.560918305	0.007618172	0.035418633
ENSMMUG00000022094	ATP binding cassette subfamily B member 10 [Source:NCBI gene;Acc:574117]	0.561194062	0.001403645	0.008972266
ENSMMUG000000007760	centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]	0.562185752	0.004647494	0.023684326
ENSMMUG00000022682	tripartite motif containing 68 [Source:NCBI gene;Acc:717644]	0.565920192	0.001851999	0.011240197
ENSMMUG000000050742	src kinase associated phosphoprotein 1 [Source:NCBI gene;Acc:697043]	0.566835593	0.001406203	0.00898419
ENSMMUG00000015840	RAN binding protein 17 [Source:VGNC Symbol;Acc:VGNC:84485]	0.567089929	0.003126399	0.017175343
ENSMMUG00000002381	lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]	0.568561623	0.000899716	0.006183644
ENSMMUG00000010367	myosin heavy chain 11 [Source:VGNC Symbol;Acc:VGNC:75097]	0.571329828	0.003236241	0.017644315
ENSMMUG000000065276		0.572435805	0.008906497	0.040059172
ENSMMUG00000009577	atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]	0.572952746	0.008278223	0.037771007
ENSMMUG000000005878	protein tyrosine phosphatase receptor type A [Source:VGNC Symbol;Acc:VGNC:76610]	0.576933915	0.006253009	0.030208134
ENSMMUG00000007223	DIRAS family GTPase 2 [Source:VGNC Symbol;Acc:VGNC:71673]	0.577311695	0.005068136	0.025421
ENSMMUG00000022136	laminin subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:74225]	0.57786358	0.000796971	0.005589995
ENSMMUG000000008104	proteasome activator subunit 4 [Source:VGNC Symbol;Acc:VGNC:76295]	0.577933758	0.001784322	0.010921396
ENSMMUG000000060764		0.578442906	0.002118374	0.012494557
ENSMMUG00000017038	RAB2A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81529]	0.580056165	0.008553482	0.038739959
ENSMMUG00000018579	sperm antigen with calponin homology and coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:78021]	0.581375516	0.006205244	0.0300109
ENSMMUG00000019807	regulator of G protein signaling 14 [Source:VGNC Symbol;Acc:VGNC:76918]	0.583460101	0.004559478	0.023311184
ENSMMUG000000000151	transmembrane serine protease 6 [Source:VGNC Symbol;Acc:VGNC:79038]	0.585808563	0.003526887	0.018817799
ENSMMUG000000005264	mediator complex subunit 14 [Source:VGNC Symbol;Acc:VGNC:74561]	0.585867648	0.010623115	0.045953219
ENSMMUG000000060311	G antigen 10-like [Source:NCBI gene;Acc:114674954]	0.586681479	0.009918937	0.043600314
ENSMMUG00000014873	torsin 1A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79810]	0.587152346	0.008478138	0.0384524
ENSMMUG00000013128	coiled-coil domain containing 30 [Source:VGNC Symbol;Acc:VGNC:70866]	0.590094182	0.001851128	0.011240164
ENSMMUG00000012117	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:VGNC Symbol;Acc:VGNC:73364]	0.591208393	4.24E-05	0.000470695
ENSMMUG00000010996	Janus kinase 3 [Source:VGNC Symbol;Acc:VGNC:73812]	0.591759148	0.003642562	0.019307958
ENSMMUG000000009768	ring finger protein 14 [Source:VGNC Symbol;Acc:VGNC:84488]	0.592589148	0.00165647	0.010259837
ENSMMUG00000009430	transient receptor potential cation channel subfamily M member 1 [Source:VGNC Symbol;Acc:VGNC:79964]	0.595009983	0.000782567	0.005503166
ENSMMUG000000051669		0.595396401	0.003941556	0.020627504
ENSMMUG00000006182	bromodomain adjacent to zinc finger domain 2B [Source:NCBI gene;Acc:702780]	0.59884218	0.002996707	0.016603446

ENSMMUG0000006727	vitamin D receptor [Source:VGNC Symbol;Acc:VGNC:78764]	0.601455225	0.001170185	0.007699962
ENSMMUG0000005323	phosphoribosyl pyrophosphate synthetase associated protein 2 [Source:VGNC Symbol;Acc:VGNC:76430]	0.601823942	0.001081217	0.007198548
ENSMMUG00000013653	lysine demethylase 5A [Source:VGNC Symbol;Acc:VGNC:82169]	0.60329419	0.000833638	0.005809501
ENSMMUG00000020676	BPI fold containing family B member 4 [Source:VGNC Symbol;Acc:VGNC:70321]	0.605884839	0.009005566	0.040420692
ENSMMUG00000006528	Rho GTPase activating protein 15 [Source:VGNC Symbol;Acc:VGNC:69874]	0.614120591	0.000126749	0.001184978
ENSMMUG00000018154	cartilage acidic protein 1 [Source:VGNC Symbol;Acc:VGNC:71408]	0.616790662	0.008949372	0.040224125
ENSMMUG00000053458	ORMDL sphingolipid biosynthesis regulator 2 [Source:NCBI gene;Acc:710296]	0.61781488	0.004250001	0.021989501
ENSMMUG00000015115	terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]	0.61785881	0.002902767	0.016193597
ENSMMUG00000002371	myosin IC [Source:VGNC Symbol;Acc:VGNC:75112]	0.618120143	0.007914752	0.036509712
ENSMMUG00000055016	keratin, type II cytoskeletal 6A [Source:NCBI gene;Acc:719283]	0.62306902	0.000225426	0.001952685
ENSMMUG00000020629	SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]	0.624187044	0.007725493	0.035814935
ENSMMUG00000019703	RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]	0.624244584	0.000659678	0.004763487
ENSMMUG00000038349	crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]	0.626773014	0.003567074	0.018977594
ENSMMUG00000005270	ryanodine receptor 3 [Source:NCBI gene;Acc:694996]	0.628802825	0.004515253	0.023127157
ENSMMUG00000006403	potassium voltage-gated channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:73971]	0.629525318	0.003073364	0.016962985
ENSMMUG00000015982	neuronal PAS domain protein 4 [Source:VGNC Symbol;Acc:VGNC:75211]	0.629738391	0.009683132	0.04278118
ENSMMUG00000020172	KIAA1755 [Source:VGNC Symbol;Acc:VGNC:73942]	0.62986096	0.003240648	0.017653505
ENSMMUG00000019926	cytoplasmic polyadenylation element binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71450]	0.629936076	0.002704342	0.015316881
ENSMMUG00000000500	fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72546]	0.630176789	0.007586723	0.035312882
ENSMMUG00000048207	syntaxin 4 [Source:NCBI gene;Acc:704880]	0.630577753	0.001245293	0.008104302
ENSMMUG00000062747		0.631126043	0.000494402	0.003723363
ENSMMUG00000058082		0.631150669	0.001321621	0.008515069
ENSMMUG00000044736	WT1 interacting protein [Source:NCBI gene;Acc:717999]	0.631206029	0.010028969	0.043905499
ENSMMUG00000017505	tetratricopeptide repeat domain 3 [Source:VGNC Symbol;Acc:VGNC:81785]	0.631268449	0.000999516	0.006755064
ENSMMUG00000031160	menin 1 [Source:NCBI gene;Acc:106995582]	0.631846189	5.64E-05	0.00060196
ENSMMUG00000053437		0.632577243	0.003650463	0.019326154
ENSMMUG00000004522	DNA primase subunit 1 [Source:NCBI gene;Acc:710253]	0.635169847	0.000305396	0.002530537
ENSMMUG00000049666		0.635891822	0.006664304	0.031819346
ENSMMUG00000057506		0.635959128	0.003635545	0.019286523
ENSMMUG00000022744	muscleblind like splicing regulator 2 [Source:VGNC Symbol;Acc:VGNC:74519]	0.636513865	0.008445755	0.038345739
ENSMMUG00000023321	UDP-glucose glycoprotein glucosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:78981]	0.638226979	0.008457183	0.038384191
ENSMMUG00000016114	2',3'-cyclic nucleotide 3' phosphodiesterase [Source:VGNC Symbol;Acc:VGNC:71279]	0.638754177	0.00100283	0.00677393
ENSMMUG00000006287	DAP3 binding cell death enhancer 1 [Source:VGNC Symbol;Acc:VGNC:71806]	0.6388928	0.001424203	0.009059048
ENSMMUG00000021082	potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]	0.639000897	0.002015995	0.011977818
ENSMMUG00000023025	synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]	0.639251203	0.001326956	0.00853673
ENSMMUG00000004026	integrin subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73774]	0.640002893	0.001388448	0.008888258
ENSMMUG00000064750		0.6412261	0.005545804	0.027382937
ENSMMUG00000056500		0.641235902	0.000326718	0.002671389
ENSMMUG00000002909	placental growth factor [Source:VGNC Symbol;Acc:VGNC:75964]	0.643027746	0.002851921	0.015960507
ENSMMUG00000011278	cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]	0.643518489	0.000267369	0.002264607
ENSMMUG00000019015	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73217]	0.64453544	0.000652812	0.004732342
ENSMMUG00000005667	fumarate hydratase [Source:VGNC Symbol;Acc:VGNC:72659]	0.644933353	0.006678098	0.031846748
ENSMMUG00000001167	tRNA methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:79562]	0.646318557	0.006080654	0.029526834
ENSMMUG00000060495		0.646458975	0.011129442	0.047724803
ENSMMUG00000052836		0.647711044	0.00661768	0.031640022
ENSMMUG00000002540	dehydrogenase/reductase 7 [Source:VGNC Symbol;Acc:VGNC:71690]	0.648743978	0.001045223	0.007018187
ENSMMUG00000053488	small integral membrane protein 19 [Source:NCBI gene;Acc:705371]	0.649146528	0.000385335	0.00306567
ENSMMUG00000060987		0.649204707	0.004651887	0.0236903
ENSMMUG00000050119		0.649635489	0.001049863	0.007040324
ENSMMUG00000055978		0.650284682	0.007912685	0.036509712
ENSMMUG00000011134	transcription factor Dp-2 [Source:VGNC Symbol;Acc:VGNC:78324]	0.651578883	0.003274571	0.017763724

ENSMMUG0000004417	secretion associated Ras related GTPase 1B [Source:VGNC Symbol;Acc:VGNC:76970]	0.652751154	0.001543579	0.009680755
ENSMMUG00000019115	eukaryotic translation initiation factor 1A domain containing [Source:VGNC Symbol;Acc:VGNC:72127]	0.65290283	0.003017316	0.016710494
ENSMMUG00000011043	endoplasmic reticulum aminopeptidase 2 [Source:VGNC Symbol;Acc:VGNC:72141]	0.654570176	0.000399798	0.003153576
ENSMMUG00000038858		0.655664225	0.001112572	0.007365682
ENSMMUG0000001083	glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]	0.656561941	0.002876157	0.01606587
ENSMMUG00000005991	TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]	0.658912957	0.001888298	0.011385946
ENSMMUG00000001801	membrane associated guanylate kinase, WW and PDZ domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74312]	0.659281927	0.009531988	0.042244304
ENSMMUG00000045544	neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]	0.660066057	0.003939318	0.020627504
ENSMMUG00000008931	MAU2 sister chromatid cohesion factor [Source:NCBI gene;Acc:720347]	0.660143667	0.000404114	0.003175868
ENSMMUG00000020173	bactericidal permeability increasing protein [Source:VGNC Symbol;Acc:VGNC:70277]	0.661737607	0.00577212	0.028306511
ENSMMUG00000017806	CD109 molecule [Source:VGNC Symbol;Acc:VGNC:70834]	0.663000759	0.000749556	0.00530908
ENSMMUG00000047621	transmembrane 4 L six family member 18 [Source:VGNC Symbol;Acc:VGNC:82713]	0.663777023	0.00171802	0.010570665
ENSMMUG00000005906	heat shock transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:73533]	0.664216465	0.0093376	0.041637352
ENSMMUG00000019500	methenyltetrahydrofolate synthetase domain containing [Source:VGNC Symbol;Acc:VGNC:75023]	0.664448548	0.001306454	0.008434103
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]	0.664528875	0.000895713	0.006159388
ENSMMUG00000020575	SOS Ras/Rac guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:77837]	0.669885748	0.001587396	0.009902433
ENSMMUG00000022404	apoptotic peptidase activating factor 1 [Source:VGNC Symbol;Acc:VGNC:69975]	0.670009742	8.04E-06	0.000109343
ENSMMUG00000004339	RAB15, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81519]	0.670245007	0.005828877	0.028487949
ENSMMUG00000008130	ABR activator of RhoGEF and GTPase [Source:VGNC Symbol;Acc:VGNC:69589]	0.671370645	7.21E-05	0.000741497
ENSMMUG00000011001	ankyrin repeat and sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:69735]	0.672121048	0.003730444	0.019685337
ENSMMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]	0.672996535	0.00735323	0.034433601
ENSMMUG00000032341	coiled-coil domain containing 160 [Source:VGNC Symbol;Acc:VGNC:70926]	0.675876751	0.000493173	0.00371843
ENSMMUG00000058241	leucine rich repeat and Ig domain containing 3 [Source:NCBI gene;Acc:721484]	0.675936858	0.001657387	0.010260616
ENSMMUG00000009173	serine/threonine kinase 24 [Source:VGNC Symbol;Acc:VGNC:81583]	0.679413598	0.000463634	0.00353633
ENSMMUG00000020601	coenzyme Q5, methyltransferase [Source:VGNC Symbol;Acc:VGNC:81376]	0.680871078	0.000358056	0.002887594
ENSMMUG00000006139	3-hydroxy-3-methylglutaryl-CoA reductase [Source:VGNC Symbol;Acc:VGNC:73484]	0.682464658	0.000354707	0.00286771
ENSMMUG00000001667	transmembrane protein 210 [Source:VGNC Symbol;Acc:VGNC:79945]	0.683896224	0.000126048	0.00118094
ENSMMUG00000000291	leucine rich repeat transmembrane neuronal 1 [Source:VGNC Symbol;Acc:VGNC:74315]	0.68418599	0.011389787	0.048488805
ENSMMUG00000010141	family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]	0.686410952	0.000210251	0.001842141
ENSMMUG00000017949	ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]	0.687506788	2.60E-05	0.00030537
ENSMMUG00000022741	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]	0.689987889	0.000838665	0.00583513
ENSMMUG00000022973	gametogenetin [Source:VGNC Symbol;Acc:VGNC:72740]	0.690453258	0.002510609	0.01440852
ENSMMUG00000014311	chromosome 20 C16orf71 homolog [Source:NCBI gene;Acc:709711]	0.690601602	0.002972224	0.016517165
ENSMMUG000000060780		0.693065224	0.000521879	0.003903114
ENSMMUG00000001538	GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]	0.693887069	0.001183109	0.007773175
ENSMMUG000000051751		0.693910999	0.004581793	0.023397616
ENSMMUG00000018255	nuclear factor of activated T cells 5 [Source:VGNC Symbol;Acc:VGNC:75325]	0.694682136	0.005182336	0.025883755
ENSMMUG000000051450	phospholipase A2 receptor 1 [Source:NCBI gene;Acc:700191]	0.696688344	0.000361711	0.002911636
ENSMMUG000000049866		0.696994761	0.007330894	0.034353803
ENSMMUG00000042077	DNA damage regulated autophagy modulator 1 [Source:NCBI gene;Acc:697427]	0.697587569	0.000878134	0.006060993
ENSMMUG00000003956	interferon alpha and beta receptor subunit 2 [Source:VGNC Symbol;Acc:VGNC:81330]	0.698648271	0.000598447	0.004404678
ENSMMUG00000045187	CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]	0.700022904	0.005855934	0.028598645
ENSMMUG00000037887	RBMX like 1 [Source:NCBI gene;Acc:100424767]	0.700112162	1.16E-05	0.000149005
ENSMMUG00000000237	TBC1 domain family member 1 [Source:VGNC Symbol;Acc:VGNC:78103]	0.700218534	0.010036215	0.043922403
ENSMMUG00000011579	TAFA chemokine like family member 2 [Source:VGNC Symbol;Acc:VGNC:78189]	0.700383216	0.000513078	0.003841718
ENSMMUG00000013193	matrix metalloproteinase 16 [Source:VGNC Symbol;Acc:VGNC:74894]	0.700768825	0.002945101	0.016387491
ENSMMUG00000016128	SIK family kinase 3 [Source:VGNC Symbol;Acc:VGNC:77330]	0.701135175	0.000680721	0.004896363
ENSMMUG00000011209	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	0.701828531	0.011185347	0.047901343
ENSMMUG00000022104	family with sequence similarity 174 member C [Source:NCBI gene;Acc:706393]	0.702449009	0.000110594	0.001058305
ENSMMUG00000017619	lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]	0.703150478	0.000126753	0.001184978
ENSMMUG00000008979	protein O-fucosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76030]	0.703225284	0.003490105	0.018659909

ENSMMUG00000062055	glyoxalase I [Source:NCBI gene;Acc:719518]	0.703539249	0.003447801	0.018509996
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]	0.704306546	0.002158099	0.012679214
ENSMMUG000000059777		0.704432778	0.008623688	0.039017075
ENSMMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]	0.70591123	0.000533146	0.003973639
ENSMMUG00000019763	DEK proto-oncogene [Source:NCBI gene;Acc:712460]	0.70612599	0.003192314	0.017470885
ENSMMUG00000015572	GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]	0.708508231	0.000914572	0.006275342
ENSMMUG00000004847	xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]	0.708868044	0.000180198	0.001603333
ENSMMUG000000061366		0.709112646	0.000696162	0.004993664
ENSMMUG00000019023	cytochrome c oxidase assembly factor 1 homolog [Source:VGNC Symbol;Acc:VGNC:81290]	0.709545669	0.005300581	0.026352619
ENSMMUG00000018909	fetuin B [Source:VGNC Symbol;Acc:VGNC:72638]	0.71145783	4.07E-05	0.000454418
ENSMMUG00000020860	EvC ciliary complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72301]	0.712446022	0.00210426	0.012422601
ENSMMUG00000030532	solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]	0.713441924	0.00201364	0.011969306
ENSMMUG00000005744	glutamate ionotropic receptor NMDA type subunit 2C [Source:VGNC Symbol;Acc:VGNC:73284]	0.714422363	0.000720645	0.005151965
ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]	0.715220211	0.002327638	0.013519891
ENSMMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]	0.716758632	8.85E-05	0.000874538
ENSMMUG00000014407	magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]	0.716977471	0.001987248	0.01185229
ENSMMUG000000062394	C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]	0.720205346	0.000559877	0.004158225
ENSMMUG00000014641		0.720343704	5.13E-05	0.000554686
ENSMMUG000000049374		0.72275574	0.003533728	0.018846549
ENSMMUG00000022504	alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]	0.722935824	0.00449691	0.023073115
ENSMMUG00000015503	zinc finger FYVE-type containing 27 [Source:VGNC Symbol;Acc:VGNC:79623]	0.723657453	7.99E-05	0.000806592
ENSMMUG000000056008		0.72467068	0.000260464	0.0022119
ENSMMUG00000008556	integrin subunit alpha E [Source:NCBI gene;Acc:721483]	0.724981514	0.001877302	0.011335447
ENSMMUG000000049917	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.725796824	0.011300011	0.048233205
ENSMMUG000000051186	proteasome 20S subunit alpha 5 [Source:NCBI gene;Acc:698435]	0.727173234	3.69E-05	0.000415781
ENSMMUG000000052972		0.727532978	0.001399524	0.008950332
ENSMMUG000000063792		0.727558115	0.011537475	0.048987505
ENSMMUG00000014010	RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]	0.728438898	1.82E-05	0.00022347
ENSMMUG00000011839	acyl-CoA synthetase bubblegum family member 1 [Source:VGNC Symbol;Acc:VGNC:69547]	0.729140505	0.006136441	0.0297669
ENSMMUG00000010201	atrophin 1 [Source:VGNC Symbol;Acc:VGNC:70157]	0.731228382	0.003590292	0.01907989
ENSMMUG000000054072		0.733059262	0.000442958	0.003404854
ENSMMUG00000014210	metadherin [Source:VGNC Symbol;Acc:VGNC:74859]	0.734458726	0.00034752	0.002821918
ENSMMUG000000061825	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.735091742	0.005833708	0.028500825
ENSMMUG00000014313	zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]	0.737431157	0.000654688	0.004740646
ENSMMUG00000000194	solute carrier family 27 member 1 [Source:VGNC Symbol;Acc:VGNC:77438]	0.738345518	0.004830905	0.024391371
ENSMMUG000000053710		0.74021873	0.000724881	0.00517385
ENSMMUG00000016454	4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]	0.74026555	0.000531229	0.003961628
ENSMMUG00000006234	acyl-CoA oxidase 3, pristanoyl [Source:VGNC Symbol;Acc:VGNC:69382]	0.740380866	0.000602109	0.004421602
ENSMMUG00000015477	lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]	0.741454325	0.001809078	0.011036431
ENSMMUG000000043846		0.741465933	0.002974029	0.016520122
ENSMMUG00000016773	estrogen related receptor beta [Source:VGNC Symbol;Acc:VGNC:72434]	0.742442847	0.009076788	0.040684075
ENSMMUG00000023406	HID1 domain containing [Source:VGNC Symbol;Acc:VGNC:73394]	0.742465796	0.000382771	0.003050884
ENSMMUG00000003297	coiled-coil domain containing 63 [Source:VGNC Symbol;Acc:VGNC:70879]	0.74311373	0.001952111	0.01169464
ENSMMUG00000010577	RNA-binding protein 4B [Source:NCBI gene;Acc:713553]	0.744229882	4.43E-05	0.000487841
ENSMMUG000000056022		0.744879675	0.004515886	0.023127157
ENSMMUG00000019820	SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]	0.745092627	0.001588846	0.009902433
ENSMMUG00000017382	biliverdin reductase A [Source:VGNC Symbol;Acc:VGNC:70256]	0.746079486	0.000207964	0.001827042
ENSMMUG00000009368	Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]	0.746135532	0.000128537	0.0011982
ENSMMUG00000009677	mediator complex subunit 16 [Source:VGNC Symbol;Acc:VGNC:74525]	0.746954265	0.011248617	0.048061264
ENSMMUG00000002033	serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]	0.747691606	1.38E-05	0.000174068
ENSMMUG00000008041	ankyrin repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:69693]	0.747703069	5.71E-05	0.000608188

ENSMMUG0000001534	calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]	0.747909119	0.001772086	0.01085162
ENSMMUG00000052626	progesterin and adipoQ receptor family member 8 [Source:NCBI gene;Acc:708418]	0.748641668	5.73E-05	0.000608928
ENSMMUG00000019837	ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]	0.748805398	0.004887372	0.024647701
ENSMMUG00000030597	mitogen-activated protein kinase kinase kinase 2 [Source:VGNC Symbol;Acc:VGNC:81465]	0.748908495	1.03E-05	0.000135331
ENSMMUG00000020486	checkpoint kinase 2 [Source:VGNC Symbol;Acc:VGNC:70958]	0.749115111	0.000549011	0.00408719
ENSMMUG00000052713	leucine rich repeat containing 14B [Source:NCBI gene;Acc:723071]	0.749644464	0.00222355	0.013014336
ENSMMUG00000053072		0.749726793	0.0014489	0.009202606
ENSMMUG00000002181	SFI1 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]	0.752322574	0.000395052	0.003120022
ENSMMUG00000014981	homeobox containing 1 [Source:VGNC Symbol;Acc:VGNC:73443]	0.754676274	0.004713695	0.023929934
ENSMMUG00000016255	telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]	0.758447633	0.000129102	0.00120088
ENSMMUG00000016772	solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]	0.758970647	0.000619322	0.004517329
ENSMMUG00000053617	torsin 1A interacting protein 2 [Source:NCBI gene;Acc:716691]	0.761084259	0.000677148	0.004873363
ENSMMUG00000011767	carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]	0.761299036	0.009956704	0.043692319
ENSMMUG00000064612	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.761526361	0.000702932	0.005033803
ENSMMUG00000002822	unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]	0.762131578	0.000382307	0.003049058
ENSMMUG00000046646	Y RNA [Source:RFAM;Acc:RF00019]	0.762277996	0.006481792	0.03111644
ENSMMUG00000049375		0.762643605	0.001149701	0.007572852
ENSMMUG00000010336	DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]	0.762712853	1.76E-06	2.85E-05
ENSMMUG00000002347	myosin light chain 2 [Source:VGNC Symbol;Acc:VGNC:75103]	0.762822208	0.00474456	0.024077204
ENSMMUG00000055934		0.762940816	0.010153891	0.044332736
ENSMMUG00000011061	ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]	0.76312646	0.000237692	0.00203853
ENSMMUG00000006819	helicase for meiosis 1 [Source:NCBI gene;Acc:704516]	0.763406037	0.010352584	0.045078902
ENSMMUG00000005769	EF-hand calcium binding domain 6 [Source:VGNC Symbol;Acc:VGNC:72092]	0.76463835	0.01111139	0.047663273
ENSMMUG00000058237		0.764808141	0.002226813	0.013027558
ENSMMUG00000008399	synaptic vesicle glycoprotein 2B [Source:VGNC Symbol;Acc:VGNC:78140]	0.764856206	2.25E-05	0.000269735
ENSMMUG00000000901	alpha hemoglobin stabilizing protein [Source:VGNC Symbol;Acc:VGNC:69631]	0.766204908	7.36E-05	0.000753262
ENSMMUG00000000382	sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]	0.766634445	0.001995063	0.011875202
ENSMMUG00000062048		0.767095752	0.000417652	0.003256885
ENSMMUG00000056906		0.769305423	0.000339178	0.002762824
ENSMMUG00000005361	mucolipin 3 [Source:VGNC Symbol;Acc:VGNC:74505]	0.769831957	0.006771492	0.032197467
ENSMMUG00000064074		0.773074033	0.0008615	0.005968407
ENSMMUG00000021655	histone deacetylase 7 [Source:NCBI gene;Acc:718225]	0.773516212	0.000468294	0.003559803
ENSMMUG00000053254	adenylate kinase 4 [Source:NCBI gene;Acc:698560]	0.773592753	0.000914993	0.006275342
ENSMMUG00000012113	LARGE xylosyl- and glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:74236]	0.774480303	0.000310011	0.002563864
ENSMMUG00000001715	zinc finger protein 627 [Source:VGNC Symbol;Acc:VGNC:79856]	0.774960558	0.001071424	0.007155055
ENSMMUG00000022914	RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]	0.775769934	0.007911721	0.036509712
ENSMMUG00000020603	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]	0.777580512	0.002711358	0.015336786
ENSMMUG00000061917		0.777839676	8.09E-05	0.000815782
ENSMMUG00000002923	colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]	0.778695662	0.001245374	0.008104302
ENSMMUG00000058275	arrestin domain containing 5 [Source:NCBI gene;Acc:697277]	0.779096157	0.005387349	0.026743274
ENSMMUG00000045769	tubulin tyrosine ligase like 10 [Source:NCBI gene;Acc:702662]	0.779119899	0.000153395	0.001402713
ENSMMUG00000031024	lactate dehydrogenase A [Source:NCBI gene;Acc:694309]	0.781034925	0.008048955	0.036975791
ENSMMUG00000057187		0.782038265	0.000464457	0.003538925
ENSMMUG00000005982	coiled-coil domain containing 84 [Source:NCBI gene;Acc:707400]	0.783309129	0.01089447	0.046872229
ENSMMUG00000003742	butyrylcholinesterase [Source:VGNC Symbol;Acc:VGNC:70238]	0.784457838	0.004051865	0.021106783
ENSMMUG00000054789	family with sequence similarity 174 member A [Source:NCBI gene;Acc:702300]	0.785186252	1.14E-05	0.000146894
ENSMMUG00000014149	LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]	0.785376766	2.18E-05	0.000262875
ENSMMUG00000020605	heparanase 2 (inactive) [Source:NCBI gene;Acc:708795]	0.785868786	0.006432718	0.030903722
ENSMMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]	0.788929199	0.000607065	0.004445844
ENSMMUG00000023377	retinoic acid induced 1 [Source:VGNC Symbol;Acc:VGNC:76651]	0.789711821	0.010137179	0.044274668
ENSMMUG00000019022	serine/threonine kinase 17a [Source:VGNC Symbol;Acc:VGNC:77913]	0.789911765	6.47E-05	0.000677141

ENSMMUG00000058544	nucleosome assembly protein 1 like 5 [Source:NCBI gene;Acc:703223]	0.790547529	0.000260397	0.0022119
ENSMMUG00000015922	formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]	0.791560912	0.000243784	0.002085147
ENSMMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]	0.791804361	0.006590284	0.031555543
ENSMMUG00000064122		0.793779273	0.007199975	0.033936388
ENSMMUG00000020488	receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]	0.794189282	0.000199314	0.001758194
ENSMMUG00000005548	N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]	0.79465378	1.49E-05	0.000186246
ENSMMUG00000010420	makorin ring finger protein 1 [Source:VGNC Symbol;Acc:VGNC:81476]	0.795828957	0.005413622	0.026832377
ENSMMUG00000046141	defensin beta 123 [Source:NCBI gene;Acc:619504]	0.797746233	8.24E-05	0.000827124
ENSMMUG00000028928	ankyrin repeat domain 24 [Source:NCBI gene;Acc:721829]	0.800463298	0.000268823	0.002275442
ENSMMUG00000012940	tRNA phosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:79242]	0.800489808	0.001186944	0.007786545
ENSMMUG00000017945	septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]	0.801150294	0.001173606	0.007718554
ENSMMUG00000023032	intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]	0.802293319	7.27E-05	0.000745888
ENSMMUG00000042951	signal recognition particle 19 [Source:NCBI gene;Acc:693829]	0.802707557	0.003725968	0.019669716
ENSMMUG00000020588	protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]	0.803040475	8.48E-06	0.000114174
ENSMMUG00000021868	TNF receptor associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79019]	0.804374992	0.000592689	0.004367252
ENSMMUG00000003067	endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]	0.804468933	0.000280899	0.002353383
ENSMMUG00000048463	apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]	0.804794416	0.000525742	0.003929741
ENSMMUG00000005116	defensin beta 124 [Source:VGNC Symbol;Acc:VGNC:71655]	0.805382288	0.004192523	0.02176087
ENSMMUG00000003669	methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]	0.805718569	3.81E-05	0.000428882
ENSMMUG00000001635	zinc finger protein 703 [Source:VGNC Symbol;Acc:VGNC:79552]	0.806408469	0.005720001	0.028125327
ENSMMUG00000001302	sucrase-isomaltase [Source:VGNC Symbol;Acc:VGNC:77213]	0.806920897	1.42E-05	0.000177911
ENSMMUG00000000959	cytochrome P450, family 11, subfamily B, polypeptide 2 [Source:NCBI gene;Acc:695914]	0.80704939	0.000216321	0.001889516
ENSMMUG00000022514	coiled-coil domain containing 186 [Source:VGNC Symbol;Acc:VGNC:70847]	0.807109904	2.51E-05	0.000296254
ENSMMUG00000040830		0.807338323	0.011672168	0.049367031
ENSMMUG00000013483	prolyl endopeptidase [Source:VGNC Symbol;Acc:VGNC:76396]	0.807394782	0.000203106	0.001790426
ENSMMUG00000038898	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.807413522	0.006920075	0.032783821
ENSMMUG00000054768		0.808556245	0.000842299	0.005850986
ENSMMUG00000009128	discs large MAGUK scaffold protein 5 [Source:VGNC Symbol;Acc:VGNC:71921]	0.809769851	9.56E-05	0.000935468
ENSMMUG00000053004		0.810447837	0.002608821	0.014880025
ENSMMUG00000008651	FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]	0.810510229	0.000480921	0.003645113
ENSMMUG00000055290	netrin 1 [Source:NCBI gene;Acc:717645]	0.810670519	0.000636989	0.004638366
ENSMMUG00000021498	L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]	0.811510452	2.11E-05	0.000256202
ENSMMUG00000015861	cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]	0.812215969	0.01030043	0.044912089
ENSMMUG00000008515	sorting nexin 7 [Source:NCBI gene;Acc:716015]	0.81347653	8.30E-07	1.45E-05
ENSMMUG00000047393	protein phosphatase 1 regulatory subunit 7-like [Source:NCBI gene;Acc:699349]	0.815564648	0.001686552	0.010396529
ENSMMUG00000051681	retrotransposon Gag like 6 [Source:NCBI gene;Acc:712760]	0.81615466	8.83E-05	0.000873506
ENSMMUG00000064430		0.816282927	0.001423628	0.009059048
ENSMMUG00000064763		0.816498676	0.008331947	0.037961851
ENSMMUG00000060157	zinc finger protein 330 [Source:NCBI gene;Acc:699364]	0.817308177	0.000505819	0.003796129
ENSMMUG00000052999	lecithin retinol acyltransferase [Source:NCBI gene;Acc:698871]	0.81843249	1.63E-05	0.000201227
ENSMMUG00000006763	cytochrome c oxidase subunit IV isoform 1 [Source:NCBI gene;Acc:693811]	0.820381879	0.000386692	0.003072698
ENSMMUG00000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]	0.820699108	0.000978282	0.006646174
ENSMMUG00000006293	SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]	0.820830558	0.000289613	0.002421407
ENSMMUG00000062995		0.821490211	0.003130378	0.017182649
ENSMMUG00000023761	ectonucleoside triphosphate diphosphohydrolase 7 [Source:VGNC Symbol;Acc:VGNC:72071]	0.822944003	0.002095132	0.01237998
ENSMMUG00000017026	fibrosin like 1 [Source:NCBI gene;Acc:696295]	0.822996344	0.002526182	0.014478684
ENSMMUG00000054235		0.827205571	0.006360094	0.03061149
ENSMMUG00000059491		0.82848738	0.001544428	0.009681399
ENSMMUG00000023418	nuclear receptor subfamily 1 group H member 2 [Source:VGNC Symbol;Acc:VGNC:75504]	0.830201522	7.66E-05	0.000780326
ENSMMUG00000004222	thromboxane A synthase 1 [Source:VGNC Symbol;Acc:VGNC:78278]	0.831005614	2.15E-05	0.000259723
ENSMMUG00000010536	discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]	0.831201642	5.70E-05	0.000608156

ENSMMUG0000004913	mitotic deacetylase associated SANT domain protein [Source:VGNC Symbol;Acc:VGNC:72073]	0.832278098	0.000588433	0.004348235
ENSMMUG0000005514	RNA polymerase III subunit A [Source:VGNC Symbol;Acc:VGNC:76138]	0.833477543	0.008145357	0.037321384
ENSMMUG00000022867	kelch domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74122]	0.834453972	0.000322263	0.002641618
ENSMMUG00000061586	chromosome 4 C6orf52 homolog [Source:NCBI gene;Acc:702114]	0.834496897	0.001641306	0.010190234
ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]	0.838495332	9.46E-05	0.000927826
ENSMMUG00000012469	KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]	0.838548955	2.29E-07	4.52E-06
ENSMMUG00000056729	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	0.839609802	0.003371294	0.018182009
ENSMMUG00000014425	protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]	0.840274629	0.005276642	0.02624366
ENSMMUG00000011527	TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]	0.840449295	0.00935356	0.0416581
ENSMMUG00000014110	adhesion G protein-coupled receptor D2 [Source:VGNC Symbol;Acc:VGNC:69462]	0.840490524	1.96E-06	3.14E-05
ENSMMUG00000001154	U8 snoRNA-decapping enzyme-like [Source:NCBI gene;Acc:717946]	0.840725561	0.001848702	0.011235949
ENSMMUG00000058042	heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]	0.841460014	0.002985513	0.016562639
ENSMMUG00000013105	astrotactin 2 [Source:VGNC Symbol;Acc:VGNC:70087]	0.84199929	0.005795696	0.028385136
ENSMMUG00000022031	DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]	0.844024247	0.000115654	0.001097824
ENSMMUG00000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]	0.844707196	7.49E-05	0.000764954
ENSMMUG00000049514	solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]	0.846557602	0.002259174	0.013193087
ENSMMUG00000010886	strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]	0.847713193	8.46E-05	0.00084462
ENSMMUG00000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]	0.848534677	3.26E-07	6.25E-06
ENSMMUG00000055239		0.850090675	0.000177212	0.001580415
ENSMMUG00000037413	U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]	0.850863849	0.001469589	0.009302137
ENSMMUG00000015663	adaptor related protein complex 3 subunit delta 1 [Source:VGNC Symbol;Acc:VGNC:69969]	0.851195498	0.000700522	0.005022084
ENSMMUG00000005217	heat shock protein family A (Hsp70) member 5 [Source:NCBI gene;Acc:703193]	0.852095298	0.006097989	0.029591436
ENSMMUG00000061749	PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]	0.852657225	1.14E-07	2.44E-06
ENSMMUG00000005729	GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]	0.853066271	0.00514725	0.025758083
ENSMMUG00000015476	unc-13 homolog A [Source:NCBI gene;Acc:720000]	0.853348707	3.14E-05	0.000359786
ENSMMUG00000022481	cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]	0.854559077	5.69E-05	0.000606793
ENSMMUG00000011547	reticulon 4 receptor [Source:VGNC Symbol;Acc:VGNC:77047]	0.855502302	0.010596808	0.045865302
ENSMMUG00000000381	IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]	0.85741074	3.92E-07	7.36E-06
ENSMMUG00000050057		0.857630814	0.000185642	0.001645413
ENSMMUG00000018166	MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]	0.858094139	0.00031025	0.00256421
ENSMMUG00000012178	calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]	0.858708809	0.000303797	0.002523733
ENSMMUG00000021812	ERCC excision repair 8, CSA ubiquitin ligase complex subunit [Source:VGNC Symbol;Acc:VGNC:72425]	0.859830644	9.33E-07	1.62E-05
ENSMMUG00000055728		0.860119652	0.001873779	0.011329988
ENSMMUG00000052680		0.861210017	0.000439468	0.003384293
ENSMMUG00000060675		0.863692872	0.000214719	0.001877486
ENSMMUG00000020549	protein phosphatase 6 catalytic subunit [Source:NCBI gene;Acc:703658]	0.864001973	0.011778387	0.049719046
ENSMMUG00000021839	Grid2 interacting protein [Source:VGNC Symbol;Acc:VGNC:73191]	0.864139544	0.004133582	0.021480723
ENSMMUG00000010949	SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]	0.864780624	0.000392483	0.003107294
ENSMMUG00000065221		0.865208417	0.000106047	0.001022339
ENSMMUG00000003289	integrin subunit beta 3 [Source:NCBI gene;Acc:717379]	0.867468026	5.39E-06	7.69E-05
ENSMMUG00000052867		0.867684529	0.003424518	0.01840299
ENSMMUG00000022798	aspartyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:71708]	0.868493474	0.001409422	0.008995897
ENSMMUG00000004877	heterogeneous nuclear ribonucleoprotein L [Source:VGNC Symbol;Acc:VGNC:81187]	0.86941829	0.008462197	0.038393519
ENSMMUG00000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]	0.869697151	0.000353644	0.002860902
ENSMMUG00000008106	solute carrier family 25 member 17 [Source:NCBI gene;Acc:705547]	0.870575557	0.002791045	0.015712189
ENSMMUG00000060712		0.875428959	0.000291475	0.002433839
ENSMMUG00000008126	lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]	0.878190352	4.50E-05	0.000494406
ENSMMUG00000018159	syntaphilin [Source:NCBI gene;Acc:100429237]	0.879631743	0.001016563	0.006852429
ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]	0.881529806	0.000246536	0.002103252
ENSMMUG00000006332	SUMO specific peptidase 3 [Source:NCBI gene;Acc:715884]	0.884937912	0.000633944	0.004618784
ENSMMUG00000001532	glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]	0.887203594	6.73E-05	0.000700807

ENSMMUG00000039397	tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]	0.887322831	0.001230776	0.008029438
ENSMMUG00000012538	ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]	0.887927236	0.003203121	0.017507875
ENSMMUG00000055639		0.888737548	0.011849233	0.04998558
ENSMMUG00000010357	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]	0.88917156	0.000664064	0.004792489
ENSMMUG00000013766	prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]	0.890632292	0.000610617	0.004461352
ENSMMUG00000016104	chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]	0.892042317	0.00025991	0.002210083
ENSMMUG00000015924	BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]	0.895919333	0.001267658	0.008228681
ENSMMUG00000053916		0.898067039	0.000492106	0.003712539
ENSMMUG00000011328	cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]	0.89921265	0.002728966	0.015409513
ENSMMUG00000043955	three prime repair exonuclease 1 [Source:VGNC Symbol;Acc:VGNC:82708]	0.899680594	1.35E-05	0.000171017
ENSMMUG00000009318	BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]	0.901018617	4.16E-05	0.000464114
ENSMMUG00000008357	macrophage erythroblast attacher [Source:VGNC Symbol;Acc:VGNC:74282]	0.901466591	0.003175677	0.017401853
ENSMMUG00000016686	BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]	0.902568754	0.000303629	0.002523733
ENSMMUG00000017402	phosphoglucomutase 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75839]	0.905084484	0.000842748	0.005850986
ENSMMUG00000056175		0.905094421	0.00018814	0.001665884
ENSMMUG00000039553	ubiquitin specific peptidase 30 [Source:NCBI gene;Acc:706607]	0.905349457	0.00194983	0.011686369
ENSMMUG00000058106	otoconin 90 [Source:NCBI gene;Acc:100429699]	0.905805834	0.000116019	0.001099678
ENSMMUG00000057134	keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]	0.905969918	0.010775855	0.04649892
ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]	0.907565283	0.000586981	0.004339978
ENSMMUG00000015108	SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]	0.90803008	5.73E-05	0.000608928
ENSMMUG00000018788	transmembrane protein 14B [Source:NCBI gene;Acc:698237]	0.908214034	0.000446264	0.003425853
ENSMMUG00000003744	solute carrier family 44 member 2 [Source:VGNC Symbol;Acc:VGNC:77498]	0.908401012	1.62E-07	3.33E-06
ENSMMUG00000004074	bone morphogenetic protein 7 [Source:VGNC Symbol;Acc:VGNC:70266]	0.908602146	0.004082059	0.02123783
ENSMMUG00000008336	acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]	0.909964602	3.38E-07	6.45E-06
ENSMMUG00000051363		0.910778547	0.00207706	0.012287283
ENSMMUG00000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]	0.911412436	0.000292097	0.002437462
ENSMMUG00000016890	solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]	0.91147877	7.91E-05	0.000801199
ENSMMUG00000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.911833635	0.001282681	0.008305424
ENSMMUG00000053989		0.91232535	0.000129517	0.001203874
ENSMMUG00000008566	zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]	0.916480376	3.35E-05	0.000381421
ENSMMUG00000055498	leucine carboxyl methyltransferase 2 [Source:NCBI gene;Acc:710047]	0.918060333	7.89E-05	0.000800349
ENSMMUG00000044822	coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]	0.918177659	1.26E-05	0.000160997
ENSMMUG00000021904	cell division cycle 45 [Source:VGNC Symbol;Acc:VGNC:70800]	0.919084798	0.003329016	0.018021407
ENSMMUG00000013901	mitogen-activated protein kinase kinase kinase 3 [Source:VGNC Symbol;Acc:VGNC:81466]	0.919230052	0.01120782	0.0479343
ENSMMUG00000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]	0.921201804	1.84E-09	5.62E-08
ENSMMUG00000053199		0.921778609	0.000100478	0.000975905
ENSMMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]	0.926156262	0.001648957	0.010222512
ENSMMUG00000017946	rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]	0.927961859	4.94E-05	0.000537068
ENSMMUG00000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]	0.928395262	0.000164603	0.001489035
ENSMMUG00000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]	0.928963335	0.0004079	0.003194274
ENSMMUG00000016909	meiotic kinetochore factor [Source:NCBI gene;Acc:709179]	0.9308986	3.62E-07	6.86E-06
ENSMMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]	0.931878944	4.90E-06	7.05E-05
ENSMMUG00000057906		0.932211155	5.11E-07	9.43E-06
ENSMMUG00000005521	glycogenin 1 [Source:VGNC Symbol;Acc:VGNC:73332]	0.932334743	7.92E-05	0.000801689
ENSMMUG00000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]	0.933564888	0.000154503	0.001409865
ENSMMUG00000014880	sortilin related receptor 1 [Source:NCBI gene;Acc:713011]	0.934780367	0.000151023	0.001383954
ENSMMUG00000040268	phosphatidylinositol transfer protein alpha [Source:NCBI gene;Acc:721228]	0.934965525	0.001474876	0.009326509
ENSMMUG00000052476	zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]	0.936316123	7.39E-06	0.000101211
ENSMMUG00000016876	integrin subunit alpha L [Source:NCBI gene;Acc:711945]	0.936773466	3.52E-06	5.23E-05
ENSMMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]	0.938615887	0.000949985	0.0064879
ENSMMUG00000019966	zinc finger protein 557 [Source:NCBI gene;Acc:100424983]	0.938660481	2.36E-07	4.65E-06

ENSMMUG00000018344	myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]	0.94034368	0.000154976	0.001411474
ENSMMUG00000020346	carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]	0.941966637	0.000163687	0.001482208
ENSMMUG00000003972	EH domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72175]	0.944382795	6.58E-06	9.18E-05
ENSMMUG00000016465	histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]	0.945935261	2.67E-08	6.42E-07
ENSMMUG00000008006	RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]	0.945984625	1.51E-05	0.000188597
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]	0.94881695	1.12E-05	0.00014587
ENSMMUG00000029507	adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]	0.951125115	5.44E-06	7.76E-05
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]	0.952389519	6.45E-06	9.03E-05
ENSMMUG00000009381	WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]	0.953912444	1.49E-06	2.47E-05
ENSMMUG00000030891	hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]	0.954663832	1.54E-05	0.000191977
ENSMMUG00000060754	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	0.956575678	8.10E-05	0.000816103
ENSMMUG00000051583		0.957872499	0.01146919	0.048746874
ENSMMUG00000065269	Rho family GTPase 2 [Source:NCBI gene;Acc:712559]	0.958047492	0.001911774	0.011490127
ENSMMUG00000018274	FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]	0.958181972	7.43E-06	0.000101612
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]	0.959105488	0.00783764	0.036231285
ENSMMUG00000061995		0.960599298	3.23E-07	6.20E-06
ENSMMUG00000054090		0.960814769	0.001248953	0.008119445
ENSMMUG00000037727	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 7 [Source:NCBI gene;Acc:714136]	0.961072681	0.000470856	0.003572998
ENSMMUG00000009825	zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]	0.96135359	2.54E-05	0.000298688
ENSMMUG00000058257		0.962177849	8.47E-05	0.000844859
ENSMMUG00000004224	poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]	0.962888939	3.78E-05	0.000425807
ENSMMUG00000047219		0.963672812	0.000366068	0.002935785
ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]	0.963758618	5.28E-06	7.56E-05
ENSMMUG00000013560	calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]	0.96587884	0.001677548	0.010350861
ENSMMUG00000055893		0.966525304	0.003657921	0.019341967
ENSMMUG00000062485	ESF1 nucleolar pre-rRNA processing protein homolog [Source:NCBI gene;Acc:694159]	0.96822814	0.006583953	0.031536865
ENSMMUG00000054377		0.968933977	3.98E-07	7.45E-06
ENSMMUG00000017224	catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]	0.969162558	0.003590713	0.01907989
ENSMMUG00000021267	potassium calcium-activated channel subfamily N member 4 [Source:NCBI gene;Acc:712383]	0.969864665	0.000115204	0.00109435
ENSMMUG00000003314	aquaporin 3 (Gill blood group) [Source:NCBI gene;Acc:702721]	0.97047686	0.002113877	0.0124737
ENSMMUG00000000198	collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]	0.971449205	1.13E-05	0.000146023
ENSMMUG00000057979	growth differentiation factor 5 [Source:NCBI gene;Acc:705432]	0.972496127	2.65E-05	0.000310449
ENSMMUG00000060973		0.972773555	0.000179405	0.00159778
ENSMMUG00000061021		0.972870474	0.00574339	0.028188567
ENSMMUG00000059608	fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]	0.973055831	0.002041813	0.012103502
ENSMMUG00000055209		0.97319673	7.29E-06	0.000100212
ENSMMUG00000052831		0.973311106	8.48E-05	0.000844859
ENSMMUG00000022931	NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]	0.974785472	0.000116457	0.001103028
ENSMMUG00000013397	peroxiredoxin 5 [Source:NCBI gene;Acc:719764]	0.975067814	2.13E-06	3.39E-05
ENSMMUG00000055601		0.976085819	1.83E-07	3.71E-06
ENSMMUG00000063121		0.977100608	0.000181878	0.001615369
ENSMMUG00000007804	RAN binding protein 10 [Source:VGNC Symbol;Acc:VGNC:76563]	0.97762623	5.42E-05	0.000583402
ENSMMUG00000055096		0.978401118	2.60E-05	0.000306044
ENSMMUG00000010203	protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]	0.982453524	8.85E-06	0.00011865
ENSMMUG00000014123	alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]	0.982586226	0.001465525	0.009289378
ENSMMUG00000003555	calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]	0.983970104	2.78E-05	0.000322672
ENSMMUG00000021446	diacylglycerol kinase zeta [Source:VGNC Symbol;Acc:VGNC:71789]	0.984765551	6.65E-06	9.26E-05
ENSMMUG00000022109	CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]	0.985038947	0.001006886	0.006797793
ENSMMUG00000038221	proteasome 26S subunit, non-ATPase 8 [Source:NCBI gene;Acc:721897]	0.98534972	0.000424073	0.003295069
ENSMMUG00000004014	interferon regulatory factor 7 [Source:VGNC Symbol;Acc:VGNC:73765]	0.98588927	0.0004381	0.003377768
ENSMMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]	0.986604318	0.000122293	0.001147411

ENSMMUG0000001944	chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]	0.987295126	9.81E-08	2.12E-06
ENSMMUG00000018029	amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]	0.987655448	2.64E-05	0.000308882
ENSMMUG00000058885	formin binding protein 4 [Source:NCBI gene;Acc:712633]	0.988329117	0.00013429	0.001243788
ENSMMUG00000011347	DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]	0.989761443	1.23E-09	3.91E-08
ENSMMUG00000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]	0.990650643	2.21E-07	4.39E-06
ENSMMUG00000057682		0.992673744	1.20E-06	2.03E-05
ENSMMUG00000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]	0.993791926	0.001560283	0.00975252
ENSMMUG00000000582	NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]	0.996939773	0.001139291	0.007511912
ENSMMUG00000042870	Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]	0.998239093	0.01122834	0.048006241
ENSMMUG00000006470	complement C1r subcomponent [Source:NCBI gene;Acc:722133]	1.000561664	2.06E-07	4.13E-06
ENSMMUG00000052780		1.000864931	0.000159382	0.001448279
ENSMMUG00000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]	1.001035616	0.000188208	0.001665884
ENSMMUG00000002926	mediator complex subunit 24 [Source:NCBI gene;Acc:699536]	1.002320899	9.22E-08	2.01E-06
ENSMMUG00000050132		1.003340467	0.000350943	0.002846147
ENSMMUG00000016769	proteasome 26S subunit, ATPase 5 [Source:VGNC Symbol;Acc:VGNC:81513]	1.003482431	0.007623081	0.03542876
ENSMMUG00000003568	testis expressed 101 [Source:VGNC Symbol;Acc:VGNC:79869]	1.003488556	0.002477229	0.014254779
ENSMMUG00000064204	kelch like family member 26 [Source:NCBI gene;Acc:719583]	1.004238639	0.003499563	0.018695069
ENSMMUG00000064821		1.004424699	0.001504576	0.009477366
ENSMMUG00000002995	tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]	1.006018986	0.00037769	0.003015942
ENSMMUG00000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]	1.006301052	2.90E-06	4.42E-05
ENSMMUG00000014573	dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]	1.009050587	7.74E-08	1.72E-06
ENSMMUG00000004854	leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]	1.010038896	0.00036778	0.002945869
ENSMMUG00000022348	surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]	1.01018833	2.49E-05	0.000294554
ENSMMUG00000013697	PDX1 C-terminal inhibiting factor 1 [Source:VGNC Symbol;Acc:VGNC:75621]	1.011560474	3.46E-06	5.15E-05
ENSMMUG00000022933	DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]	1.011859959	1.22E-07	2.57E-06
ENSMMUG00000016652	cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]	1.012373065	0.000123603	0.001158863
ENSMMUG00000032809	mml-mir-642 [Source:miRBase;Acc:MI0007885]	1.012765866	0.000357206	0.002885683
ENSMMUG00000008618	calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]	1.013608711	5.43E-08	1.22E-06
ENSMMUG00000014674	golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]	1.014630746	0.000235675	0.002023904
ENSMMUG00000060812	autophagy related 12 [Source:NCBI gene;Acc:696765]	1.014922918	7.80E-05	0.000793549
ENSMMUG00000014766	neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]	1.016580378	0.000213545	0.001869747
ENSMMUG00000063694	cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]	1.020570784	1.25E-07	2.64E-06
ENSMMUG00000005532	male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]	1.0215708	4.55E-05	0.000499268
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]	1.021800874	0.000927612	0.006358526
ENSMMUG00000013696	myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]	1.024368626	0.002629897	0.014973909
ENSMMUG00000059292		1.025993155	1.13E-06	1.93E-05
ENSMMUG00000016401	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]	1.026288005	0.000108019	0.001038258
ENSMMUG00000063590		1.028100934	0.000824563	0.005755529
ENSMMUG00000001761	myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]	1.029021931	0.00025273	0.002151851
ENSMMUG00000051072		1.029273654	4.22E-09	1.22E-07
ENSMMUG00000056613		1.029435503	1.19E-06	2.01E-05
ENSMMUG00000005483	ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]	1.030138236	0.000273174	0.002300264
ENSMMUG00000034608	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.030248653	0.005531477	0.027352256
ENSMMUG00000061785		1.030779102	6.13E-08	1.37E-06
ENSMMUG00000015394	WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]	1.035317818	2.43E-08	5.94E-07
ENSMMUG00000018879	exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]	1.035446232	6.73E-05	0.000700807
ENSMMUG00000014868	OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]	1.035676857	0.000240136	0.002056765
ENSMMUG00000058254		1.036676308	0.000312834	0.002582274
ENSMMUG00000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]	1.037919622	4.46E-09	1.29E-07
ENSMMUG00000044496	H2A histone family, member X [Source:NCBI gene;Acc:703073]	1.040760693	0.004870465	0.024581548
ENSMMUG00000049850	proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]	1.042218014	1.93E-05	0.000236825

ENSMMUG0000000196	niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]	1.043007454	0.00786075	0.036312244
ENSMMUG00000005480	carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]	1.044521355	1.59E-09	4.93E-08
ENSMMUG00000019607	patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]	1.051682011	1.96E-06	3.14E-05
ENSMMUG00000020258	E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]	1.052052966	6.23E-06	8.74E-05
ENSMMUG00000053496		1.052423709	0.00141288	0.009009135
ENSMMUG00000046550	coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]	1.053750478	6.14E-05	0.000646103
ENSMMUG00000003584	mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]	1.055900318	1.31E-08	3.41E-07
ENSMMUG00000001902	TruB pseudouridine synthase family member 1 [Source:VGNC Symbol;Acc:VGNC:79005]	1.059062181	0.005213923	0.026001484
ENSMMUG00000055048		1.059530466	1.53E-06	2.51E-05
ENSMMUG00000006723	solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]	1.06168892	0.006701689	0.03194751
ENSMMUG00000001739	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]	1.062988239	2.04E-08	5.06E-07
ENSMMUG00000005745	EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]	1.06360983	6.63E-07	1.20E-05
ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]	1.063975026	1.71E-09	5.28E-08
ENSMMUG00000021449	vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]	1.064992963	1.47E-06	2.44E-05
ENSMMUG00000052854	mucin like 1 [Source:NCBI gene;Acc:100423942]	1.066654973	1.04E-09	3.33E-08
ENSMMUG00000032249	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]	1.068112728	4.02E-07	7.51E-06
ENSMMUG00000063322		1.068761953	0.000274816	0.002312585
ENSMMUG00000054472		1.069420507	3.25E-06	4.88E-05
ENSMMUG00000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]	1.069503506	7.16E-05	0.000737185
ENSMMUG00000002953	MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]	1.070956557	0.009691612	0.04280407
ENSMMUG00000001910	heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]	1.071124813	0.005390531	0.026743274
ENSMMUG00000020580	RPGRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]	1.071363464	0.000463844	0.00353633
ENSMMUG00000062628		1.071467585	0.001497059	0.009434601
ENSMMUG00000052828		1.073290947	0.00705797	0.033327592
ENSMMUG00000001745	oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]	1.074916034	6.73E-05	0.000700807
ENSMMUG00000006997	thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]	1.074971287	6.72E-07	1.21E-05
ENSMMUG00000049432	olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]	1.076827349	1.86E-07	3.74E-06
ENSMMUG00000012001	transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]	1.078255295	8.74E-05	0.000866777
ENSMMUG00000061632	fibrillin 3 [Source:NCBI gene;Acc:709446]	1.080424352	0.000246981	0.002105671
ENSMMUG00000019991	dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]	1.082222472	6.16E-10	2.07E-08
ENSMMUG00000001943	GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]	1.082558916	0.000557063	0.004140003
ENSMMUG00000055241		1.083565657	2.14E-07	4.26E-06
ENSMMUG00000008474	transforming growth factor beta regulator 1 [Source:VGNC Symbol;Acc:VGNC:78239]	1.083614072	0.006274305	0.030299735
ENSMMUG00000022407	serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]	1.084540241	5.91E-05	0.000626089
ENSMMUG00000007401	arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]	1.084561048	0.000185608	0.001645413
ENSMMUG00000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]	1.085432907	8.17E-09	2.22E-07
ENSMMUG00000031451	golgin A3 [Source:VGNC Symbol;Acc:VGNC:73106]	1.085627984	0.002122265	0.012494784
ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]	1.085957764	1.13E-05	0.000145962
ENSMMUG00000005486	protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]	1.087520117	0.000171893	0.001540389
ENSMMUG00000018787	PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]	1.088702375	0.000185391	0.001645413
ENSMMUG00000060959		1.089434454	0.004577983	0.023387365
ENSMMUG00000058621		1.090256751	0.000110362	0.001057652
ENSMMUG00000019441	solute carrier family 12 member 7 [Source:VGNC Symbol;Acc:VGNC:77390]	1.09137587	0.000949159	0.006485669
ENSMMUG00000004024	cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]	1.092213874	0.001955754	0.011711059
ENSMMUG00000060496	translocase of outer mitochondrial membrane 40 like [Source:NCBI gene;Acc:100426891]	1.092616093	0.007005978	0.033118242
ENSMMUG00000015866	vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]	1.093252443	2.73E-06	4.20E-05
ENSMMUG00000003233	SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]	1.093702086	4.37E-05	0.000481922
ENSMMUG00000049802	olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]	1.093776926	0.001877255	0.011335447
ENSMMUG00000054259		1.094571306	0.006724206	0.032031312
ENSMMUG00000000730	spectrin alpha, erythrocytic 1 [Source:VGNC Symbol;Acc:VGNC:77868]	1.095039442	0.001061452	0.007097531
ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]	1.0963981	3.63E-08	8.48E-07

ENSMMUG0000005256	family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]	1.097007449	0.000346657	0.002818435
ENSMMUG0000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]	1.098757481	0.000115868	0.001099051
ENSMMUG00000050028		1.1001584	6.62E-05	0.000691332
ENSMMUG00000062316	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.101221007	8.60E-05	0.00085513
ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]	1.102985561	3.85E-09	1.13E-07
ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]	1.103241912	2.03E-06	3.24E-05
ENSMMUG00000049297		1.10442814	1.78E-06	2.88E-05
ENSMMUG00000021891	kinesin light chain 3 [Source:VGNC Symbol;Acc:VGNC:73870]	1.104670496	0.00026981	0.00228082
ENSMMUG00000061335		1.104757473	0.000664794	0.004795093
ENSMMUG00000060967		1.104781892	0.000415895	0.003245131
ENSMMUG00000016001	vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]	1.105860973	9.62E-06	0.000128137
ENSMMUG00000024170	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.106216564	0.000157469	0.001431894
ENSMMUG00000057702		1.106740762	4.19E-06	6.11E-05
ENSMMUG00000000389	nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]	1.10839805	0.000283608	0.002374252
ENSMMUG00000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]	1.108985978	6.76E-08	1.51E-06
ENSMMUG00000019223	TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]	1.108999305	9.48E-05	0.000928632
ENSMMUG00000051230		1.110103065	2.33E-05	0.000277277
ENSMMUG00000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]	1.110758247	2.68E-07	5.23E-06
ENSMMUG00000003006	serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]	1.113071696	3.62E-05	0.000408738
ENSMMUG00000016761	coiled-coil domain containing 47 [Source:NCBI gene;Acc:717944]	1.114964715	0.001515725	0.009536053
ENSMMUG00000008623	coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]	1.116981466	1.52E-07	3.15E-06
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]	1.117113472	1.51E-06	2.49E-05
ENSMMUG00000020916	coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]	1.117592097	1.04E-09	3.34E-08
ENSMMUG00000054158	acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]	1.118682336	6.14E-05	0.000646103
ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]	1.119485826	2.00E-07	4.01E-06
ENSMMUG00000060533		1.121352113	2.70E-06	4.16E-05
ENSMMUG00000018235	chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]	1.12168299	0.004529652	0.0231861
ENSMMUG00000063495		1.122694014	1.72E-08	4.35E-07
ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]	1.123296975	0.000609727	0.004460025
ENSMMUG00000019839	lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]	1.12397188	4.00E-08	9.23E-07
ENSMMUG00000017561	solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]	1.124897629	0.000102092	0.000988621
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]	1.125158718	4.83E-08	1.10E-06
ENSMMUG00000014592	zinc finger SWIM-type containing 9 [Source:VGNC Symbol;Acc:VGNC:79949]	1.125242701	0.004457882	0.022890967
ENSMMUG00000000023	prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]	1.126056729	1.10E-05	0.000142687
ENSMMUG00000014702	TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]	1.127046533	1.44E-07	3.00E-06
ENSMMUG00000003611	low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:74248]	1.127423092	0.002406447	0.013909158
ENSMMUG000000031279	torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]	1.127752787	8.47E-06	0.000114174
ENSMMUG00000056950		1.129431735	2.85E-09	8.55E-08
ENSMMUG00000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]	1.130084372	1.80E-06	2.91E-05
ENSMMUG00000005989	GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]	1.130087014	3.29E-06	4.92E-05
ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]	1.130698782	9.01E-06	0.000120505
ENSMMUG00000020980	ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]	1.133060301	0.000668701	0.00482059
ENSMMUG00000011774	integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]	1.133582991	9.90E-08	2.14E-06
ENSMMUG00000014983	alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]	1.133662595	3.54E-08	8.30E-07
ENSMMUG00000016448	DLG associated protein 4 [Source:NCBI gene;Acc:702928]	1.137343972	0.000261822	0.002221978
ENSMMUG00000054184	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.139817478	3.55E-09	1.05E-07
ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]	1.140243325	2.30E-05	0.000273853
ENSMMUG00000057560		1.140998634	8.06E-07	1.42E-05
ENSMMUG00000063817	SRY-box transcription factor 9 [Source:NCBI gene;Acc:574208]	1.143104347	5.33E-08	1.20E-06
ENSMMUG00000006766	RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]	1.144369552	0.0007544	0.005331752
ENSMMUG00000053516		1.145986278	0.002337977	0.013561732

ENSMMUG00000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]	1.147280611	2.64E-05	0.000308882
ENSMMUG00000007197	BRCA2 DNA repair associated [Source:VGNC Symbol;Acc:VGNC:70279]	1.147389122	0.001042611	0.007006176
ENSMMUG000000060576		1.147514981	0.000228483	0.001972581
ENSMMUG00000005793	ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]	1.147987565	0.000180563	0.001604788
ENSMMUG00000014866	hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]	1.148431166	0.005394682	0.026748719
ENSMMUG00000040888	complement C3b/C4b receptor 1 like [Source:HGNC Symbol;Acc:HGNC:2335]	1.150103484	3.05E-06	4.62E-05
ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]	1.150472232	9.68E-06	0.000128616
ENSMMUG00000031106	ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]	1.156006397	3.89E-11	1.61E-09
ENSMMUG00000006786	protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]	1.156366706	2.76E-05	0.000321416
ENSMMUG00000015306	calponin 2 [Source:NCBI gene;Acc:721164]	1.157854468	1.67E-09	5.17E-08
ENSMMUG00000002810	TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]	1.161677469	4.64E-07	8.61E-06
ENSMMUG00000010526	calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]	1.163378926	0.003646874	0.019315037
ENSMMUG00000017810	structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]	1.164243464	0.00016902	0.001517787
ENSMMUG000000058187		1.165196275	9.58E-09	2.56E-07
ENSMMUG000000065113		1.170655562	0.000743248	0.00526728
ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	1.173140212	1.40E-08	3.64E-07
ENSMMUG000000053378		1.173163064	9.35E-05	0.00091948
ENSMMUG00000004816	membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]	1.173619161	2.51E-05	0.000296208
ENSMMUG00000015303	ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]	1.173758223	7.34E-09	2.01E-07
ENSMMUG00000008090	ribosomal protein L27 [Source:NCBI gene;Acc:712352]	1.174269092	0.006668298	0.031819346
ENSMMUG00000006181	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]	1.175065039	2.79E-05	0.000323666
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]	1.175380575	8.11E-05	0.000816642
ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]	1.175971181	7.76E-06	0.000105706
ENSMMUG00000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]	1.176188264	6.04E-06	8.48E-05
ENSMMUG00000008080	ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]	1.17778234	7.45E-06	0.00010182
ENSMMUG000000060063		1.178033466	6.87E-05	0.000712678
ENSMMUG00000002211	doublecortin like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71670]	1.182288073	0.000392109	0.003106233
ENSMMUG00000003105	inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]	1.183307944	2.29E-07	4.52E-06
ENSMMUG000000053625	sterol-C5-desaturase [Source:NCBI gene;Acc:706827]	1.183366215	2.74E-06	4.22E-05
ENSMMUG00000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]	1.184282294	2.57E-08	6.20E-07
ENSMMUG000000059969		1.184821178	0.008196616	0.037503277
ENSMMUG00000008385	NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]	1.186674543	7.82E-07	1.39E-05
ENSMMUG000000051677		1.188364994	1.38E-07	2.89E-06
ENSMMUG000000053329		1.188475923	0.00269591	0.015289392
ENSMMUG00000004002	CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]	1.189272138	7.82E-11	3.09E-09
ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]	1.192204968	8.11E-08	1.79E-06
ENSMMUG00000005440	ELMO domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72109]	1.19273117	0.009488012	0.04208339
ENSMMUG00000004558	OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]	1.19348656	2.25E-07	4.46E-06
ENSMMUG000000051420	homeobox B5 [Source:NCBI gene;Acc:696732]	1.193905017	2.02E-05	0.000245609
ENSMMUG000000043134	coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]	1.193934876	0.009758016	0.04302413
ENSMMUG00000002124	beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]	1.19406562	0.002934861	0.01634453
ENSMMUG00000022246	PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]	1.195836292	7.62E-06	0.000103838
ENSMMUG00000048066	trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]	1.196596423	2.67E-05	0.000312635
ENSMMUG00000013447	adaptor related protein complex 4 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69974]	1.197883123	0.004010135	0.020939845
ENSMMUG000000055126		1.198046877	0.002933592	0.016344476
ENSMMUG00000014986	testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]	1.199288863	3.51E-05	0.000398425
ENSMMUG00000018986	seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]	1.19996292	0.000194662	0.001719496
ENSMMUG00000020254	exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]	1.200201126	4.34E-06	6.30E-05
ENSMMUG00000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]	1.200585786	7.86E-05	0.000797
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]	1.200940416	9.69E-05	0.000946534
ENSMMUG000000050608		1.201721404	7.11E-06	9.81E-05

ENSMMUG00000051201	zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]	1.203475376	1.02E-05	0.000134313
ENSMMUG00000010940	telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]	1.20571601	5.06E-10	1.72E-08
ENSMMUG000000061194		1.208169239	8.76E-06	0.000117715
ENSMMUG00000015873	RAD51 paralog B [Source:VGNC Symbol;Acc:VGNC:76647]	1.208388683	0.006203481	0.0300109
ENSMMUG00000022633	replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]	1.209386691	0.006558981	0.031440465
ENSMMUG00000020604	HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]	1.212133269	3.16E-06	4.75E-05
ENSMMUG00000059754		1.21262496	0.000235545	0.002023904
ENSMMUG00000065005	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.216619335	0.002021935	0.012002117
ENSMMUG00000056024		1.216800432	6.82E-07	1.22E-05
ENSMMUG00000006893	D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]	1.21768896	1.55E-07	3.20E-06
ENSMMUG00000056924	G protein-coupled receptor 149 [Source:NCBI gene;Acc:106997054]	1.218321053	0.002532107	0.014504073
ENSMMUG00000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]	1.219538641	5.67E-06	8.05E-05
ENSMMUG00000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]	1.222491671	4.86E-05	0.000529789
ENSMMUG00000042510	coagulation factor V [Source:NCBI gene;Acc:704695]	1.22266393	2.76E-09	8.34E-08
ENSMMUG00000060879	homeobox B13 [Source:NCBI gene;Acc:697572]	1.227725292	2.60E-07	5.09E-06
ENSMMUG00000006936	gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]	1.227953015	6.71E-09	1.85E-07
ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]	1.228745474	3.65E-06	5.40E-05
ENSMMUG00000035748	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.228930853	0.002532848	0.014504073
ENSMMUG00000008379	adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]	1.22984598	0.000400759	0.003153576
ENSMMUG00000061526	synaptopodin 2 like [Source:NCBI gene;Acc:714736]	1.231227499	6.98E-05	0.000722905
ENSMMUG00000059341	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.232878235	7.29E-07	1.30E-05
ENSMMUG00000002330	ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]	1.234694066	0.005601624	0.027614276
ENSMMUG00000008091	RUN domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77101]	1.238693749	0.001054602	0.007068446
ENSMMUG00000064920		1.239435337	2.60E-08	6.26E-07
ENSMMUG00000050696	taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]	1.240891428	4.57E-05	0.000500873
ENSMMUG00000011528	F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]	1.24092289	0.000110521	0.001058305
ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]	1.241255863	3.43E-08	8.08E-07
ENSMMUG00000015999	interferon induced protein 35 [Source:VGNC Symbol;Acc:VGNC:73564]	1.242679849	0.000367117	0.002942381
ENSMMUG00000052607		1.24458871	1.16E-11	5.21E-10
ENSMMUG00000059788		1.245163047	3.60E-10	1.28E-08
ENSMMUG00000021988	N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]	1.24538907	1.68E-05	0.000207035
ENSMMUG00000021428	lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]	1.24590426	4.34E-05	0.000480525
ENSMMUG00000023282	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]	1.248407847	4.22E-06	6.13E-05
ENSMMUG00000013150	MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]	1.249767194	3.04E-07	5.87E-06
ENSMMUG00000016476	TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]	1.249778236	4.67E-05	0.000510659
ENSMMUG00000053656		1.250253891	6.76E-07	1.21E-05
ENSMMUG00000016796	reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]	1.250305776	9.80E-08	2.12E-06
ENSMMUG00000056343		1.250472431	0.000179179	0.001596863
ENSMMUG00000062837		1.251063851	0.004984286	0.025097438
ENSMMUG00000052112		1.251123725	0.002198795	0.012892706
ENSMMUG00000023717	MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]	1.251165227	6.01E-06	8.45E-05
ENSMMUG00000022996	HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]	1.251791311	6.94E-06	9.63E-05
ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]	1.254175225	1.10E-05	0.000143464
ENSMMUG00000019527	DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]	1.255261363	0.00232193	0.013492773
ENSMMUG00000001917	megakaryocyte-associated tyrosine kinase [Source:NCBI gene;Acc:100430078]	1.255600036	1.04E-06	1.79E-05
ENSMMUG00000060596	BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]	1.256704999	5.22E-06	7.49E-05
ENSMMUG00000058856	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.256798833	0.001286418	0.008325465
ENSMMUG00000030964	RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]	1.257144637	5.15E-11	2.09E-09
ENSMMUG00000009890	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]	1.25750162	4.65E-12	2.21E-10
ENSMMUG00000054175		1.258128538	6.40E-09	1.79E-07

ENSMMUG00000021075	Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]	1.258506802	8.39E-14	5.02E-12
ENSMMUG00000008007	multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]	1.258987958	2.52E-06	3.93E-05
ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]	1.260589451	2.55E-07	4.99E-06
ENSMMUG00000052424		1.260654663	8.15E-07	1.43E-05
ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]	1.261902621	5.58E-06	7.94E-05
ENSMMUG00000055352		1.262279956	6.66E-09	1.84E-07
ENSMMUG00000058432	zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]	1.264003188	1.67E-05	0.00020631
ENSMMUG00000054579	zinc finger RNA binding protein 2 [Source:NCBI gene;Acc:100430166]	1.265227644	0.001021318	0.006870201
ENSMMUG00000007366		1.266447274	1.63E-07	3.34E-06
ENSMMUG00000050511		1.269252261	0.00243384	0.014029988
ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]	1.269662057	1.33E-09	4.21E-08
ENSMMUG00000019835	CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]	1.270637102	0.000214295	0.001875042
ENSMMUG00000059725		1.271683494	0.004800043	0.02429226
ENSMMUG00000003827	albumin [Source:VGNC Symbol;Acc:VGNC:69782]	1.274264455	1.14E-05	0.000147169
ENSMMUG00000003439	nuclear factor I C [Source:VGNC Symbol;Acc:VGNC:75336]	1.274604832	0.003337165	0.018042938
ENSMMUG00000003684	ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]	1.274617852	2.69E-07	5.24E-06
ENSMMUG00000048824	eva-1 homolog C [Source:NCBI gene;Acc:708681]	1.276829027	6.89E-08	1.53E-06
ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]	1.279904581	3.87E-08	8.98E-07
ENSMMUG00000006941	exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]	1.280138275	1.17E-09	3.72E-08
ENSMMUG00000008778	parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]	1.280353311	1.60E-05	0.000198543
ENSMMUG00000006285	antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]	1.283153752	1.46E-10	5.43E-09
ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]	1.283336272	1.31E-06	2.20E-05
ENSMMUG00000017280	TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]	1.286034455	0.001342876	0.008626315
ENSMMUG00000049770	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.288283214	0.005124576	0.025664415
ENSMMUG00000011788	zinc finger protein 212 [Source:VGNC Symbol;Acc:VGNC:78418]	1.293025713	2.49E-05	0.000294613
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]	1.294880975	5.43E-08	1.22E-06
ENSMMUG00000054784		1.295850651	2.23E-05	0.000268145
ENSMMUG00000048204	ephrin B3 [Source:NCBI gene;Acc:716257]	1.296252885	3.23E-06	4.86E-05
ENSMMUG00000061951		1.297303468	0.003425032	0.01840299
ENSMMUG00000001616	peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]	1.297384834	0.002137844	0.012575095
ENSMMUG00000044080	mitochondrial ribosomal protein L54 [Source:NCBI gene;Acc:713878]	1.29843228	0.000407339	0.003191809
ENSMMUG00000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.299696714	1.72E-09	5.29E-08
ENSMMUG00000006530	ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]	1.301029585	9.35E-12	4.27E-10
ENSMMUG00000009887	MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]	1.305471302	4.19E-05	0.000466749
ENSMMUG00000015926	2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]	1.305855925	0.000101501	0.000983624
ENSMMUG00000010610	WW domain containing oxidoreductase [Source:VGNC Symbol;Acc:VGNC:78805]	1.306023515	0.001097028	0.007277625
ENSMMUG00000020979	inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]	1.306335425	0.000443187	0.003404854
ENSMMUG00000060230	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.307131961	0.000248257	0.002115152
ENSMMUG00000008964	D-glutamate cyclase [Source:VGNC Symbol;Acc:VGNC:71685]	1.307998249	0.011467067	0.048746874
ENSMMUG00000019089	centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]	1.309560719	7.58E-15	5.29E-13
ENSMMUG00000004903	ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:VGNC Symbol;Acc:VGNC:72223]	1.311417217	6.51E-11	2.61E-09
ENSMMUG00000006692	signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]	1.314915183	5.20E-06	7.48E-05
ENSMMUG00000014277	ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]	1.316534624	3.00E-07	5.81E-06
ENSMMUG00000057329		1.31860695	0.003350618	0.018108129
ENSMMUG00000006086	pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]	1.318662186	0.001124534	0.007425931
ENSMMUG00000060632		1.31922823	0.00422436	0.021891093
ENSMMUG00000064005		1.324366673	0.001541603	0.009677719
ENSMMUG00000063215	T cell receptor alpha variable 29/delta variable 5 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:12127]	1.325157348	0.003333626	0.018031317
ENSMMUG00000041729		1.325370973	0.00082423	0.005755529
ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]	1.326205217	1.06E-07	2.29E-06
ENSMMUG00000062063	melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]	1.328233378	1.03E-05	0.000135265

ENSMMUG00000051408	myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]	1.328357884	4.05E-10	1.41E-08
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]	1.328705439	2.97E-10	1.07E-08
ENSMMUG00000009886	Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]	1.328772882	1.38E-09	4.35E-08
ENSMMUG00000014771	zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]	1.330219151	2.63E-09	7.96E-08
ENSMMUG00000049935		1.330886115	5.57E-05	0.000596989
ENSMMUG00000042407		1.331343413	0.006970032	0.032984366
ENSMMUG00000004520	NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]	1.335781906	0.000111237	0.001062109
ENSMMUG00000050405		1.336205435	4.24E-05	0.000470695
ENSMMUG00000059117	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.336492519	0.004687219	0.02383282
ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]	1.336739277	1.00E-06	1.73E-05
ENSMMUG00000056093	shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]	1.336977225	2.14E-05	0.000258972
ENSMMUG00000056841		1.337387979	0.004219701	0.021875685
ENSMMUG00000011789	hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]	1.337804485	0.000217061	0.001894141
ENSMMUG00000009197	myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]	1.338931059	9.73E-10	3.15E-08
ENSMMUG00000064824	gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]	1.339101096	0.005880469	0.028696868
ENSMMUG00000004820	pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]	1.340113371	4.20E-13	2.28E-11
ENSMMUG00000053367	secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]	1.341925464	9.44E-10	3.07E-08
ENSMMUG00000059897	myosin light chain 9 [Source:NCBI gene;Acc:709784]	1.342582763	0.00241324	0.013936293
ENSMMUG00000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]	1.342634213	1.17E-13	6.84E-12
ENSMMUG00000015685	zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]	1.344516951	5.82E-11	2.35E-09
ENSMMUG00000058566		1.344896059	3.53E-07	6.70E-06
ENSMMUG00000055897		1.346965002	6.64E-06	9.25E-05
ENSMMUG00000003217	transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]	1.347081268	8.28E-07	1.45E-05
ENSMMUG00000063658	leucine rich repeat neuronal 2 [Source:NCBI gene;Acc:100429709]	1.348152973	0.000672244	0.00484344
ENSMMUG00000013044	selectin P [Source:VGNC Symbol;Acc:VGNC:77157]	1.348372424	1.02E-05	0.000134329
ENSMMUG00000001911	steroid receptor associated and regulated protein [Source:VGNC Symbol;Acc:VGNC:78008]	1.348462888	0.000149641	0.001374202
ENSMMUG00000007208	G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]	1.348732127	0.009085005	0.040706845
ENSMMUG00000010137	microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]	1.349255179	0.00050717	0.003801873
ENSMMUG00000003436	tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]	1.349774921	2.17E-13	1.23E-11
ENSMMUG00000017127	carbohydrate sulfotransferase 11 [Source:VGNC Symbol;Acc:VGNC:82123]	1.350784112	0.002004133	0.011918252
ENSMMUG00000006233	adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]	1.352777858	0.003043343	0.016825911
ENSMMUG00000061836		1.353023421	0.000780433	0.005493813
ENSMMUG00000062863		1.357399422	9.54E-05	0.000934556
ENSMMUG00000064391		1.358093761	3.84E-07	7.20E-06
ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]	1.358515127	1.94E-08	4.86E-07
ENSMMUG00000023016	jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]	1.359150352	1.73E-09	5.32E-08
ENSMMUG00000009377	tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]	1.360104986	2.44E-06	3.84E-05
ENSMMUG00000014872	dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]	1.361146254	1.36E-13	7.86E-12
ENSMMUG00000055018	sushi domain containing 6 [Source:NCBI gene;Acc:712719]	1.361703564	5.57E-08	1.25E-06
ENSMMUG00000004748	zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]	1.36193964	3.39E-07	6.46E-06
ENSMMUG00000008518	phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]	1.362669988	4.85E-08	1.10E-06
ENSMMUG00000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]	1.363275483	6.69E-07	1.20E-05
ENSMMUG00000003106	SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]	1.363315487	2.31E-06	3.65E-05
ENSMMUG00000009184	myelin protein zero like 1 [Source:NCBI gene;Acc:698437]	1.365135381	9.74E-05	0.000948972
ENSMMUG00000022406	ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]	1.366222651	1.75E-07	3.56E-06
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]	1.36632824	2.09E-08	5.17E-07
ENSMMUG00000019085	3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]	1.366366346	1.87E-13	1.07E-11
ENSMMUG00000006093	enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]	1.367423135	7.71E-07	1.37E-05
ENSMMUG00000018719	nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]	1.368020315	2.41E-08	5.88E-07
ENSMMUG00000004910	dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]	1.368809662	0.000165451	0.001492966
ENSMMUG00000049913		1.369059578	0.011659193	0.049328231

ENSMMUG0000000740	spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]	1.369263035	0.000225077	0.001950966
ENSMMUG00000004273	dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]	1.370101021	4.32E-08	9.92E-07
ENSMMUG00000008162	fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]	1.373249568	0.000221905	0.001927334
ENSMMUG00000006836	chloride channel accessory 1 [Source:NCBI gene;Acc:574295]	1.378594317	0.000615323	0.004493209
ENSMMUG00000013671	elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]	1.378931453	7.05E-10	2.33E-08
ENSMMUG00000049649	proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]	1.379316351	9.00E-09	2.42E-07
ENSMMUG00000061222	adipocyte plasma membrane associated protein [Source:NCBI gene;Acc:704948]	1.380668581	7.29E-06	0.000100212
ENSMMUG00000018471	serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]	1.383646682	0.009405986	0.041841642
ENSMMUG00000020861	EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]	1.384202322	5.12E-11	2.08E-09
ENSMMUG00000020868	homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]	1.384794065	6.90E-13	3.64E-11
ENSMMUG00000006180	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]	1.38961175	8.40E-06	0.00011336
ENSMMUG00000038256	aquaporin 2 [Source:NCBI gene;Acc:711719]	1.390129989	3.09E-16	2.71E-14
ENSMMUG00000007603	coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]	1.39077326	1.38E-07	2.89E-06
ENSMMUG00000062254		1.391215705	0.005191776	0.025920924
ENSMMUG00000057703		1.393643609	1.74E-07	3.55E-06
ENSMMUG00000055324	homeobox B7 [Source:NCBI gene;Acc:697089]	1.393661603	1.54E-07	3.19E-06
ENSMMUG00000063988		1.39409937	0.007841378	0.036235656
ENSMMUG00000051453		1.394346051	0.006429781	0.030901049
ENSMMUG00000061391	ankyrin repeat domain 49 [Source:NCBI gene;Acc:697693]	1.396230191	0.001115729	0.007379053
ENSMMUG00000007198	NEDD4 binding protein 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75017]	1.397452613	0.009984257	0.043776904
ENSMMUG00000007970	CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]	1.39983112	4.73E-08	1.08E-06
ENSMMUG00000052073		1.401438918	1.23E-09	3.90E-08
ENSMMUG00000049543		1.403119106	0.000911249	0.006256282
ENSMMUG00000060000		1.404260409	0.006512088	0.031250316
ENSMMUG00000018245	EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]	1.404882385	2.87E-08	6.86E-07
ENSMMUG00000013877	otoancorin [Source:VGNC Symbol;Acc:VGNC:75624]	1.405503196	0.002943747	0.016386982
ENSMMUG00000064009	galactose-3-O-sulfotransferase 1 [Source:NCBI gene;Acc:715998]	1.406076835	0.008029378	0.036933431
ENSMMUG00000002536	calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]	1.406327589	4.18E-06	6.11E-05
ENSMMUG00000065025		1.409806441	1.41E-09	4.42E-08
ENSMMUG00000014131	microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]	1.410513189	6.63E-05	0.000692028
ENSMMUG00000013387	cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]	1.411326918	1.33E-05	0.000168858
ENSMMUG00000018239	centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]	1.413411317	1.16E-07	2.45E-06
ENSMMUG00000014508	potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]	1.413727427	5.70E-07	1.04E-05
ENSMMUG00000014530	pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]	1.413818184	4.45E-07	8.28E-06
ENSMMUG00000050739		1.414650441	0.00726962	0.034158995
ENSMMUG00000054449	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.415660859	0.00992492	0.043611838
ENSMMUG00000064610	long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]	1.417600928	8.91E-08	1.95E-06
ENSMMUG00000057363		1.417682741	0.005035901	0.025288645
ENSMMUG00000011661	integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]	1.41889546	1.42E-08	3.66E-07
ENSMMUG00000022100	midnolin [Source:VGNC Symbol;Acc:VGNC:82186]	1.420625219	6.56E-10	2.18E-08
ENSMMUG00000003950	nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]	1.42099949	2.93E-11	1.25E-09
ENSMMUG00000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]	1.421581932	2.78E-06	4.27E-05
ENSMMUG00000003199	CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]	1.423962243	0.011618742	0.0492164
ENSMMUG00000006689	nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]	1.425120043	0.000460979	0.003518628
ENSMMUG00000053257	Y RNA [Source:RFAM;Acc:RF00019]	1.425227183	6.20E-09	1.74E-07
ENSMMUG00000029034	defensin beta 136 [Source:VGNC Symbol;Acc:VGNC:71826]	1.42537445	0.000322772	0.002644121
ENSMMUG00000062139		1.426415584	0.001205167	0.007882181
ENSMMUG00000023335	ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]	1.426566066	7.00E-06	9.70E-05
ENSMMUG00000059436	interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]	1.426717173	2.17E-08	5.33E-07
ENSMMUG00000054755	transmembrane protein 65 [Source:NCBI gene;Acc:705727]	1.427491451	0.000506391	0.003798223
ENSMMUG00000017654	arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]	1.432194782	0.000119203	0.001124926

ENSMMUG00000016376	mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]	1.432505094	3.82E-05	0.000429581
ENSMMUG00000019925	DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]	1.433970197	5.42E-08	1.22E-06
ENSMMUG00000019833	Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]	1.434728485	4.20E-11	1.73E-09
ENSMMUG00000059472	filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]	1.436581823	3.09E-06	4.67E-05
ENSMMUG00000037243	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.438468778	0.000446713	0.003425853
ENSMMUG00000058800		1.440326026	2.03E-07	4.08E-06
ENSMMUG00000018246	transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]	1.446312546	3.03E-08	7.19E-07
ENSMMUG00000003739	mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]	1.448664453	0.000560155	0.004158225
ENSMMUG00000059681		1.448967754	0.011386739	0.048488805
ENSMMUG00000048190	U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]	1.449256778	0.000428548	0.00332063
ENSMMUG00000058881	bone morphogenetic protein 8b [Source:NCBI gene;Acc:100427030]	1.450268329	0.00180992	0.011036431
ENSMMUG00000011817	aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]	1.450828026	1.41E-14	9.37E-13
ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]	1.452488132	1.15E-13	6.78E-12
ENSMMUG00000037175	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.453140691	0.00673581	0.032074813
ENSMMUG00000018237	plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]	1.453958814	1.52E-09	4.75E-08
ENSMMUG00000060555		1.454841319	2.33E-06	3.67E-05
ENSMMUG00000006091	contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]	1.457135391	9.29E-09	2.50E-07
ENSMMUG00000013146	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	1.457873193	6.66E-09	1.84E-07
ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]	1.46035182	1.07E-12	5.49E-11
ENSMMUG00000003658	autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]	1.462133921	0.000111145	0.00106202
ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]	1.46252436	8.38E-10	2.75E-08
ENSMMUG00000016797	tubulin gamma 1 [Source:NCBI gene;Acc:710756]	1.464043064	2.99E-09	8.95E-08
ENSMMUG00000000700	CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]	1.465620991	5.12E-09	1.47E-07
ENSMMUG00000008031	zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]	1.466757453	5.43E-10	1.84E-08
ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]	1.466836712	0.000731089	0.00520956
ENSMMUG00000005511	SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]	1.470509345	0.000217869	0.001898633
ENSMMUG00000031291	regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]	1.471835969	7.30E-14	4.38E-12
ENSMMUG00000001187	mitogen-activated protein kinase 15 [Source:VGNC Symbol;Acc:VGNC:74570]	1.473096679	0.007327078	0.034348326
ENSMMUG00000061797	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.477680706	0.010701837	0.046225912
ENSMMUG00000009889	PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]	1.47810438	4.54E-09	1.31E-07
ENSMMUG00000008160	neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]	1.479667699	0.00602687	0.02929754
ENSMMUG00000003298	ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]	1.482551542	4.80E-15	3.46E-13
ENSMMUG00000060437	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.483143111	0.003150948	0.017288244
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]	1.483282537	1.80E-07	3.66E-06
ENSMMUG00000052505	homeobox B9 [Source:NCBI gene;Acc:106994009]	1.484767988	5.10E-16	4.39E-14
ENSMMUG00000050793	N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]	1.486270165	1.58E-08	4.04E-07
ENSMMUG00000057231	T-box transcription factor 21 [Source:NCBI gene;Acc:694044]	1.488010711	9.52E-10	3.09E-08
ENSMMUG00000013330	ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]	1.488907185	0.001477197	0.009336478
ENSMMUG00000018648	zinc finger protein 594 [Source:NCBI gene;Acc:711492]	1.490219328	2.42E-07	4.76E-06
ENSMMUG00000007726	synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]	1.492110675	0.004505946	0.023101207
ENSMMUG00000053937		1.493796892	5.72E-07	1.04E-05
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]	1.494169585	1.46E-05	0.000183833
ENSMMUG00000055820		1.495363976	0.007742291	0.035854377
ENSMMUG00000028471	U7 small nuclear RNA [Source:RFAM;Acc:RF00066]	1.496194211	0.001149695	0.007572852
ENSMMUG00000023300	FERM domain containing 8 [Source:NCBI gene;Acc:716379]	1.500877353	0.001184182	0.007776289
ENSMMUG00000009176	calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]	1.501323348	1.98E-08	4.94E-07
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]	1.502268905	6.45E-07	1.17E-05
ENSMMUG00000009995	arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]	1.502851646	1.93E-08	4.85E-07
ENSMMUG00000051226	FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]	1.5045793	5.40E-12	2.55E-10
ENSMMUG00000044581	modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]	1.505017372	0.000100868	0.000978222
ENSMMUG00000017129	solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]	1.509408047	6.61E-12	3.08E-10

ENSMMUG00000017242	MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]	1.509923653	0.000739471	0.005251985
ENSMMUG00000053013		1.511047553	1.89E-06	3.04E-05
ENSMMUG00000050844	BTB domain containing 18 [Source:NCBI gene;Acc:703264]	1.511230052	0.007867737	0.036331585
ENSMMUG00000065208		1.512735583	0.00048386	0.003663109
ENSMMUG00000060502		1.51346065	8.08E-06	0.000109814
ENSMMUG00000062702		1.514248999	0.004574606	0.023379319
ENSMMUG00000001036	coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]	1.514296768	9.73E-07	1.69E-05
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]	1.517346269	4.87E-16	4.21E-14
ENSMMUG00000048566	MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]	1.519255384	4.06E-10	1.41E-08
ENSMMUG00000017660		1.5226081	1.61E-08	4.08E-07
ENSMMUG00000054960		1.532651555	0.000180276	0.001603333
ENSMMUG00000004498	protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]	1.5341102	0.001299502	0.008397578
ENSMMUG00000061896		1.536867158	7.02E-06	9.72E-05
ENSMMUG00000052252	protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]	1.538420219	4.01E-11	1.66E-09
ENSMMUG00000023345	adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]	1.539316562	2.21E-05	0.000265902
ENSMMUG00000056009		1.539968398	1.38E-10	5.18E-09
ENSMMUG00000006468	FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]	1.540046898	8.72E-07	1.52E-05
ENSMMUG00000018030	endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]	1.540193369	0.000271424	0.002291476
ENSMMUG00000053481		1.542210502	1.58E-06	2.60E-05
ENSMMUG00000009564	NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]	1.542344333	0.009640697	0.042622723
ENSMMUG00000003955	post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]	1.542462796	2.12E-12	1.06E-10
ENSMMUG00000008189	cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]	1.542524379	1.72E-11	7.45E-10
ENSMMUG00000021436	latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]	1.54342822	3.15E-06	4.75E-05
ENSMMUG00000061126	golgi associated olfactory signaling regulator [Source:NCBI gene;Acc:719194]	1.545370108	0.011506813	0.048890769
ENSMMUG00000005086	homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]	1.548026763	2.62E-07	5.12E-06
ENSMMUG00000057196	pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]	1.548045829	4.17E-09	1.21E-07
ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]	1.548317727	2.35E-07	4.64E-06
ENSMMUG00000008758	zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]	1.549880157	0.001685733	0.010396423
ENSMMUG00000019933	TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]	1.549977863	0.001046021	0.007018187
ENSMMUG00000007387	G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]	1.552512823	1.55E-08	3.98E-07
ENSMMUG00000003484	tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]	1.553188633	1.13E-07	2.41E-06
ENSMMUG00000060761		1.554897304	1.32E-11	5.87E-10
ENSMMUG00000051852	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.554942476	0.003210654	0.017541663
ENSMMUG00000056330		1.557392467	0.003501795	0.018699296
ENSMMUG00000006855	acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]	1.558730872	1.76E-08	4.44E-07
ENSMMUG00000060497		1.56009264	0.007804192	0.036102389
ENSMMUG00000038363	adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]	1.561025626	5.86E-14	3.57E-12
ENSMMUG00000054286		1.561336825	0.000527034	0.003937067
ENSMMUG00000011650	dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]	1.563413157	8.11E-06	0.000109937
ENSMMUG00000064707		1.56347373	5.55E-05	0.000595478
ENSMMUG00000022409	solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]	1.56377609	2.78E-08	6.66E-07
ENSMMUG00000000757	ring finger protein 114 [Source:VGNC Symbol;Acc:VGNC:76725]	1.565458244	0.004159221	0.021605305
ENSMMUG00000009960	cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]	1.566294632	5.90E-11	2.37E-09
ENSMMUG00000055379		1.56873598	8.15E-08	1.79E-06
ENSMMUG00000059428	olfactory receptor 2V2 [Source:NCBI gene;Acc:707790]	1.569274372	6.22E-05	0.00065364
ENSMMUG00000060901		1.570179857	1.51E-16	1.40E-14
ENSMMUG00000053106		1.573220319	0.000644558	0.00468297
ENSMMUG00000061576		1.574200004	0.001071935	0.007155055
ENSMMUG00000054942		1.576884234	1.79E-05	0.00021943
ENSMMUG00000059134		1.577557209	0.000836758	0.005826524
ENSMMUG00000010180	PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]	1.578252345	0.000109777	0.001052821

ENSMMUG00000009593	WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]	1.579895901	3.68E-11	1.54E-09
ENSMMUG00000054414		1.581421545	7.47E-06	0.00010195
ENSMMUG00000016069	cubilin [Source:VGNC Symbol;Acc:VGNC:82132]	1.584144273	0.000958127	0.006540061
ENSMMUG00000016582	chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]	1.584996538	1.18E-07	2.50E-06
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]	1.585781258	2.57E-22	4.76E-20
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]	1.588918973	3.21E-11	1.36E-09
ENSMMUG00000056555		1.589010166	2.72E-12	1.34E-10
ENSMMUG00000028906	Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]	1.591862693	0.009162313	0.040968359
ENSMMUG00000019563	collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]	1.591888982	6.42E-16	5.37E-14
ENSMMUG00000019667	TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]	1.593247508	0.001466141	0.009289378
ENSMMUG00000022728	zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]	1.594074179	3.92E-05	0.000439826
ENSMMUG00000039009		1.595951623	1.27E-06	2.14E-05
ENSMMUG00000049494		1.596287109	0.00043671	0.003369564
ENSMMUG00000020185	voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]	1.596721889	0.001273758	0.008252635
ENSMMUG00000059778		1.596822914	0.006526799	0.031309331
ENSMMUG00000057283		1.598569222	8.25E-05	0.000827786
ENSMMUG00000010173	presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]	1.599830451	3.82E-08	8.89E-07
ENSMMUG00000023045	zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]	1.601277093	0.003258261	0.017704856
ENSMMUG00000013160	DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]	1.601870761	0.000607124	0.004445844
ENSMMUG00000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]	1.603636491	7.41E-09	2.02E-07
ENSMMUG00000004337	zinc finger protein 790 [Source:VGNC Symbol;Acc:VGNC:79930]	1.606344269	0.003925983	0.020566634
ENSMMUG00000003098	peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]	1.606585592	1.06E-14	7.19E-13
ENSMMUG00000020597	acyl-CoA synthetase short chain family member 1 [Source:VGNC Symbol;Acc:VGNC:69416]	1.607172199	8.14E-08	1.79E-06
ENSMMUG00000023449	mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]	1.611397474	0.0004676	0.003559187
ENSMMUG00000065094		1.611420629	0.004403511	0.022683587
ENSMMUG00000023303	ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]	1.613516006	1.34E-12	6.84E-11
ENSMMUG00000051807		1.615832856	3.41E-07	6.48E-06
ENSMMUG00000039266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.61640107	0.003361226	0.018150343
ENSMMUG00000060626	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.619025265	0.002219274	0.012995171
ENSMMUG00000010363	ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]	1.620107276	3.47E-05	0.000394214
ENSMMUG00000046969	Fc receptor like 3 [Source:NCBI gene;Acc:718801]	1.620389158	1.46E-11	6.43E-10
ENSMMUG00000060760		1.625465037	1.41E-07	2.93E-06
ENSMMUG00000041376	G antigen 10 [Source:NCBI gene;Acc:693330]	1.626220926	1.83E-09	5.60E-08
ENSMMUG00000008383	major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]	1.634019702	3.55E-08	8.31E-07
ENSMMUG00000020679	myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]	1.636054391	1.04E-08	2.77E-07
ENSMMUG00000003591	pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]	1.638481422	0.000111112	0.00106202
ENSMMUG00000010678	oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]	1.640222327	0.00043565	0.003364878
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]	1.640293509	2.20E-13	1.23E-11
ENSMMUG00000061342		1.641862509	1.35E-10	5.13E-09
ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]	1.642118313	2.32E-06	3.65E-05
ENSMMUG00000009884	hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]	1.643675558	0.000165334	0.00149295
ENSMMUG00000013944	regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]	1.647224986	1.42E-10	5.30E-09
ENSMMUG00000051329		1.648114842	0.000592534	0.004367252
ENSMMUG00000007422	spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]	1.648261699	8.94E-18	9.44E-16
ENSMMUG00000064321		1.64898469	1.27E-05	0.000162606
ENSMMUG00000055914		1.649943993	2.22E-06	3.52E-05
ENSMMUG00000058437		1.654829126	7.91E-08	1.75E-06
ENSMMUG00000022613	reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]	1.654888196	2.58E-23	6.19E-21
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]	1.655138422	2.84E-10	1.03E-08
ENSMMUG00000018478	interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]	1.656143239	5.21E-07	9.60E-06
ENSMMUG00000058907		1.657223299	0.008494823	0.038514611

ENSMMUG00000016099	hedgehog acyltransferase [Source:NCBI gene;Acc:712333]	1.657600762	0.002809675	0.015801738
ENSMMUG00000050419	ADAM metalloproteinase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]	1.658083791	3.63E-10	1.29E-08
ENSMMUG00000049894		1.658146701	0.00257543	0.014721927
ENSMMUG00000064532	mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]	1.659030214	5.64E-13	3.00E-11
ENSMMUG00000010592	adducin 2 [Source:VGNC Symbol;Acc:VGNC:69529]	1.659058714	0.00937105	0.041706051
ENSMMUG00000032180	RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]	1.664669943	2.86E-05	0.00033111
ENSMMUG00000056796	NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]	1.666293186	0.010279175	0.044834477
ENSMMUG00000017627	B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]	1.669264289	9.84E-18	1.02E-15
ENSMMUG00000023636	importin 7 [Source:NCBI gene;Acc:704213]	1.669331846	1.12E-05	0.00014587
ENSMMUG00000010313	kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]	1.669850266	8.29E-15	5.76E-13
ENSMMUG00000024234	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.674873396	0.008079388	0.037058374
ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]	1.676886867	0.000108919	0.001045364
ENSMMUG00000041101	protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]	1.679725307	4.09E-17	3.94E-15
ENSMMUG00000056266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.680644164	4.77E-05	0.000521789
ENSMMUG00000008195	TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]	1.681257455	1.55E-14	1.01E-12
ENSMMUG00000065247	opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]	1.682115724	2.15E-10	7.84E-09
ENSMMUG00000008200	Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]	1.68447962	2.62E-05	0.000307932
ENSMMUG00000039943	adenylate cyclase 9 [Source:NCBI gene;Acc:706789]	1.686862167	0.008655432	0.039119778
ENSMMUG00000060399	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.687441547	0.0001531	0.00140101
ENSMMUG00000059932	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.68803435	0.000817776	0.005717383
ENSMMUG00000057038		1.690434692	0.000609747	0.004460025
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]	1.692865044	4.90E-12	2.32E-10
ENSMMUG00000010308	cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]	1.695932129	1.90E-12	9.65E-11
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]	1.699788824	3.35E-09	9.98E-08
ENSMMUG00000061474		1.703636808	0.001855756	0.011252472
ENSMMUG00000048039	apurinic/aprimidinic endodeoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:84305]	1.706261699	0.000378891	0.003023673
ENSMMUG00000050549	lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]	1.706464321	1.50E-09	4.71E-08
ENSMMUG00000015686	abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]	1.706601364	1.79E-10	6.57E-09
ENSMMUG00000003976	glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]	1.707161678	2.99E-11	1.27E-09
ENSMMUG00000010451	inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]	1.707906673	0.001265936	0.008221613
ENSMMUG00000056945		1.711551949	2.78E-12	1.36E-10
ENSMMUG00000060289		1.712781162	1.23E-18	1.50E-16
ENSMMUG00000002384	IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]	1.713620128	3.78E-10	1.33E-08
ENSMMUG000000020743	centrin 2 [Source:NCBI gene;Acc:693376]	1.714690884	0.011191036	0.047909894
ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]	1.715360313	1.19E-13	6.98E-12
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]	1.720173158	1.01E-09	3.25E-08
ENSMMUG00000020190	valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]	1.724423937	7.24E-06	9.99E-05
ENSMMUG00000051343		1.724526676	0.01135951	0.048396397
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]	1.72460545	1.77E-13	1.01E-11
ENSMMUG00000061151		1.724793713	8.53E-05	0.000849085
ENSMMUG00000003750	PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]	1.725189676	5.92E-05	0.000626749
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]	1.725649651	3.98E-08	9.21E-07
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]	1.728147854	4.33E-19	5.56E-17
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]	1.732538855	9.37E-13	4.86E-11
ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]	1.734844423	4.58E-10	1.58E-08
ENSMMUG00000008387	dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]	1.734955295	3.27E-06	4.90E-05
ENSMMUG00000056755		1.736014429	0.010673661	0.046136383
ENSMMUG00000013967	TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]	1.737037836	0.000527329	0.003937067
ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]	1.737536365	1.53E-18	1.82E-16
ENSMMUG00000056158		1.739201855	3.64E-06	5.39E-05
ENSMMUG00000055322	EPH receptor A1 [Source:NCBI gene;Acc:706295]	1.743105686	4.81E-11	1.96E-09

ENSMMUG00000015865	arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]	1.744012748	3.55E-07	6.73E-06
ENSMMUG00000018034	suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]	1.746913082	8.17E-12	3.77E-10
ENSMMUG00000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]	1.750403266	2.79E-05	0.000323666
ENSMMUG000000049551		1.752355245	5.58E-05	0.000597716
ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]	1.75381635	1.59E-06	2.61E-05
ENSMMUG00000065054	G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]	1.754219103	1.04E-15	8.31E-14
ENSMMUG00000009684	kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]	1.756138942	1.93E-09	5.87E-08
ENSMMUG00000040741	thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]	1.756299604	2.29E-10	8.34E-09
ENSMMUG00000010028	leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]	1.758063912	6.91E-12	3.20E-10
ENSMMUG000000059188		1.75915498	2.92E-05	0.000337077
ENSMMUG00000005504	nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]	1.760138189	0.000777062	0.005474023
ENSMMUG00000017906	DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]	1.760326679	0.000469957	0.003570352
ENSMMUG00000012065	tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]	1.763043254	3.62E-10	1.28E-08
ENSMMUG00000014045	protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]	1.763617752	4.62E-25	1.36E-22
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]	1.766672541	4.80E-10	1.64E-08
ENSMMUG00000008384	solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]	1.768533971	9.73E-09	2.60E-07
ENSMMUG00000018492	TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]	1.769547586	5.80E-09	1.64E-07
ENSMMUG00000015329	MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]	1.774320205	0.000103835	0.001003248
ENSMMUG00000010309	septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]	1.775347246	2.27E-05	0.000271844
ENSMMUG00000027986	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	1.776780835	6.83E-05	0.000709451
ENSMMUG00000010881	cytochrome P450, family 26, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:699519]	1.780788553	0.007055055	0.033325954
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]	1.784100302	1.66E-15	1.29E-13
ENSMMUG00000007729	ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]	1.784856067	2.76E-07	5.37E-06
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]	1.792377339	2.43E-07	4.77E-06
ENSMMUG00000017971	nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]	1.792538965	0.002701337	0.015313474
ENSMMUG000000050505	small integral membrane protein 4 [Source:NCBI gene;Acc:696553]	1.793256383	1.41E-10	5.28E-09
ENSMMUG00000021972	diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]	1.797213831	2.95E-16	2.61E-14
ENSMMUG00000023477		1.803431366	8.04E-25	2.32E-22
ENSMMUG000000052572		1.80659424	0.001926316	0.011566808
ENSMMUG00000015555	ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]	1.808782486	5.62E-10	1.89E-08
ENSMMUG00000002377	Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]	1.814835881	6.83E-05	0.000709451
ENSMMUG00000063351	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.815947668	0.004539664	0.023228187
ENSMMUG00000006738	L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]	1.817461582	5.56E-12	2.62E-10
ENSMMUG000000052474		1.818007039	9.54E-08	2.07E-06
ENSMMUG00000015416	bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]	1.818256947	8.80E-09	2.38E-07
ENSMMUG00000005488	coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]	1.819415807	8.52E-11	3.33E-09
ENSMMUG00000061833	transmembrane protein 251 [Source:NCBI gene;Acc:708131]	1.82357765	3.23E-06	4.86E-05
ENSMMUG00000004512	Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]	1.828408032	3.67E-05	0.000414328
ENSMMUG00000022513	glutamate metabotropic receptor 3 [Source:VGNC Symbol;Acc:VGNC:73287]	1.829230529	1.17E-07	2.48E-06
ENSMMUG00000014699		1.831857401	1.70E-25	5.65E-23
ENSMMUG000000059671		1.835013963	2.44E-16	2.20E-14
ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]	1.835032651	6.29E-21	1.01E-18
ENSMMUG000000056840		1.835146388	3.12E-12	1.52E-10
ENSMMUG00000029420		1.835497969	0.000154877	0.001411474
ENSMMUG00000023797	post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]	1.836495998	0.000963204	0.006560914
ENSMMUG00000031163	membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]	1.837546118	9.12E-16	7.36E-14
ENSMMUG00000018932	adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]	1.838187847	2.47E-22	4.64E-20
ENSMMUG000000061923		1.839900463	0.001211374	0.007918782
ENSMMUG00000005303	apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]	1.844495383	0.011621382	0.0492164
ENSMMUG00000016273	maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]	1.84529276	1.05E-08	2.78E-07
ENSMMUG00000039292		1.845812868	2.48E-08	6.02E-07

ENSMMUG0000002411	drebrin like [Source:NCBI gene;Acc:720621]	1.846831564	1.93E-15	1.47E-13
ENSMMUG00000014874	GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]	1.848061953	1.67E-10	6.16E-09
ENSMMUG00000014876	nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]	1.849521754	2.79E-09	8.38E-08
ENSMMUG00000045609	CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]	1.849857344	3.29E-09	9.81E-08
ENSMMUG00000009622	glypican 3 [Source:VGNC Symbol;Acc:VGNC:73117]	1.853069451	8.61E-06	0.000115774
ENSMMUG00000054225	taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]	1.855065974	0.002336689	0.013560318
ENSMMUG00000061208	MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]	1.855716892	1.27E-18	1.54E-16
ENSMMUG00000001387	p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]	1.855893607	8.21E-13	4.28E-11
ENSMMUG00000004103	collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]	1.85826268	1.96E-25	6.37E-23
ENSMMUG00000063759	transmembrane protein 185B [Source:NCBI gene;Acc:695744]	1.860488544	3.09E-14	1.96E-12
ENSMMUG00000018345	phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]	1.862659991	1.84E-11	7.97E-10
ENSMMUG00000013251	xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]	1.862833085	0.001942235	0.011646228
ENSMMUG00000019246	regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]	1.863671956	0.000316665	0.002603959
ENSMMUG00000017370	signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]	1.865976405	2.80E-06	4.28E-05
ENSMMUG00000059302	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.867265194	0.000134489	0.001244745
ENSMMUG00000058592		1.86735647	3.97E-08	9.21E-07
ENSMMUG00000000293	catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]	1.870147866	7.74E-11	3.06E-09
ENSMMUG00000050465	ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]	1.872084477	3.42E-06	5.11E-05
ENSMMUG00000012635	zyxin [Source:VGNC Symbol;Acc:VGNC:78917]	1.873194515	2.81E-13	1.55E-11
ENSMMUG00000012356	serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]	1.873607267	2.70E-08	6.49E-07
ENSMMUG00000021664	lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]	1.876353051	3.54E-23	8.21E-21
ENSMMUG00000060517		1.877088202	3.37E-08	7.97E-07
ENSMMUG00000020020	Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]	1.877566714	2.96E-07	5.74E-06
ENSMMUG00000055710	taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]	1.88007574	0.001496463	0.009434601
ENSMMUG00000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]	1.883915088	0.000470552	0.003572784
ENSMMUG00000014349	integrin subunit alpha X [Source:NCBI gene;Acc:100427850]	1.885529574	1.59E-05	0.000197445
ENSMMUG00000023370	DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]	1.886228761	3.70E-11	1.55E-09
ENSMMUG00000003303	Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]	1.886676002	1.51E-18	1.81E-16
ENSMMUG00000063639		1.886968707	6.66E-10	2.21E-08
ENSMMUG00000048375	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.888173763	5.99E-15	4.20E-13
ENSMMUG00000058557		1.888349031	1.19E-05	0.000152954
ENSMMUG00000018144	C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]	1.88947218	9.94E-20	1.37E-17
ENSMMUG00000010521	ADP ribosylation factor like GTPase 5A [Source:VGNC Symbol;Acc:VGNC:70017]	1.893715723	0.009155724	0.040953005
ENSMMUG00000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]	1.893925374	5.79E-09	1.64E-07
ENSMMUG00000001271	cleavage and polyadenylation specific factor 4 like [Source:NCBI gene;Acc:698279]	1.89411112	0.003048295	0.016846114
ENSMMUG00000055038		1.897724319	0.004516354	0.023127157
ENSMMUG00000060273	mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]	1.897788203	6.33E-07	1.15E-05
ENSMMUG00000017701	myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]	1.903331507	5.36E-07	9.83E-06
ENSMMUG00000002376	scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]	1.905360622	7.03E-09	1.93E-07
ENSMMUG00000005482	lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]	1.905444515	3.66E-05	0.000412884
ENSMMUG00000046774	RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]	1.911089086	2.30E-19	3.01E-17
ENSMMUG00000003539	glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]	1.911836259	1.17E-05	0.000150302
ENSMMUG00000004774	maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]	1.913531207	0.000751724	0.005321535
ENSMMUG00000062454		1.915266235	4.97E-14	3.06E-12
ENSMMUG00000056511		1.915858008	8.82E-05	0.00087331
ENSMMUG00000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]	1.926939514	2.98E-15	2.19E-13
ENSMMUG00000013270	RNA binding protein, mRNA processing factor 2 [Source:VGNC Symbol;Acc:VGNC:76511]	1.930311941	0.005156897	0.025796413
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]	1.931694453	1.28E-05	0.000162875
ENSMMUG00000055906	angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]	1.934202429	0.001454739	0.009230657
ENSMMUG00000064557		1.934944765	1.00E-17	1.03E-15
ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]	1.936461117	1.98E-23	4.94E-21

ENSMMUG00000031785		1.936802339	2.50E-14	1.59E-12
ENSMMUG00000059182		1.937603835	3.68E-10	1.30E-08
ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]	1.93950346	3.55E-06	5.28E-05
ENSMMUG00000005208	RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]	1.93986819	2.13E-06	3.39E-05
ENSMMUG00000062522		1.944673713	1.44E-08	3.71E-07
ENSMMUG00000002715	solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]	1.945555842	5.46E-15	3.85E-13
ENSMMUG00000005070	ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]	1.946105641	1.64E-10	6.07E-09
ENSMMUG00000020558	serine/threonine kinase 38 [Source:VGNC Symbol;Acc:VGNC:78155]	1.951127652	3.99E-05	0.000446339
ENSMMUG00000056605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.951519884	0.004066015	0.021163501
ENSMMUG00000007201	PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]	1.95254265	1.80E-16	1.65E-14
ENSMMUG00000056971	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.955021539	4.54E-06	6.55E-05
ENSMMUG00000039101	pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]	1.956688302	1.45E-15	1.14E-13
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]	1.956804437	0.000738549	0.005248308
ENSMMUG00000005150	CD163 molecule [Source:VGNC Symbol;Acc:VGNC:70752]	1.958977068	0.009037469	0.040549859
ENSMMUG00000014715	fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]	1.960750368	3.52E-05	0.000399162
ENSMMUG00000062037	stannin [Source:NCBI gene;Acc:711909]	1.961475686	6.86E-07	1.23E-05
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]	1.961989771	1.27E-10	4.85E-09
ENSMMUG00000049265	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.962551798	0.000888025	0.006116248
ENSMMUG00000061098		1.963190871	2.43E-30	1.17E-27
ENSMMUG00000020726	dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]	1.964933137	1.43E-22	2.86E-20
ENSMMUG00000000917	aldo-keto reductase family 1 member B [Source:NCBI gene;Acc:705957]	1.965838242	0.000737197	0.005241569
ENSMMUG00000016323	Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]	1.965843732	1.19E-15	9.45E-14
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]	1.966958214	1.02E-06	1.77E-05
ENSMMUG00000049735	allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]	1.967790458	3.72E-12	1.77E-10
ENSMMUG00000000396	intraflagellar transport 52 [Source:NCBI gene;Acc:694933]	1.967918583	2.88E-06	4.40E-05
ENSMMUG00000031391	RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]	1.970500068	0.000512521	0.003839762
ENSMMUG00000013099	pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]	1.970742825	3.08E-06	4.66E-05
ENSMMUG00000001409	coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]	1.970774299	5.88E-16	4.95E-14
ENSMMUG00000054161	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	1.97185619	0.010948463	0.047042137
ENSMMUG00000009437	zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]	1.976758878	0.009045733	0.04055889
ENSMMUG00000008070	YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]	1.977386989	1.90E-20	2.84E-18
ENSMMUG00000006929	ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]	1.981340182	7.99E-16	6.56E-14
ENSMMUG00000052047		1.98260913	5.12E-15	3.63E-13
ENSMMUG00000009040	cornulin [Source:VGNC Symbol;Acc:VGNC:71397]	1.98519826	0.002548929	0.01458329
ENSMMUG00000005294	casein kinase 2 beta [Source:NCBI gene;Acc:715807]	1.986443989	0.000155005	0.001411474
ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]	1.989073879	1.23E-11	5.48E-10
ENSMMUG00000007423	transcription factor Dp-1 [Source:NCBI gene;Acc:715345]	1.98922222	6.63E-12	3.08E-10
ENSMMUG00000007206	chromosome 3 C7orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70609]	1.990486022	0.009307674	0.041532455
ENSMMUG00000013176	NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]	1.991741484	0.00027232	0.002296049
ENSMMUG00000019764	dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]	1.994268196	1.07E-14	7.22E-13
ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]	1.995645094	1.15E-18	1.42E-16
ENSMMUG00000058013	melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]	1.997325297	7.94E-11	3.12E-09
ENSMMUG00000017256	calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]	1.999189391	8.74E-19	1.09E-16
ENSMMUG00000002563	zinc finger DHHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]	2.001865917	0.000263071	0.00223112
ENSMMUG00000022313	activating transcription factor 7 [Source:NCBI gene;Acc:700403]	2.001970776	9.11E-10	2.97E-08
ENSMMUG00000032429	forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]	2.005169604	1.41E-13	8.15E-12
ENSMMUG00000005293	G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]	2.005837279	0.000404326	0.003175868
ENSMMUG00000061079	golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]	2.008286819	1.56E-20	2.36E-18
ENSMMUG00000013713	beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]	2.008407136	4.20E-05	0.000467339
ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]	2.011444622	1.52E-06	2.51E-05
ENSMMUG00000009201	abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]	2.012319763	2.12E-15	1.60E-13

ENSMMUG00000045513		2.012896495	2.88E-06	4.39E-05
ENSMMUG00000011411	sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]	2.020916836	1.57E-08	4.01E-07
ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]	2.023850113	1.94E-14	1.25E-12
ENSMMUG00000009441	abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]	2.026503692	0.000357802	0.002887336
ENSMMUG00000053324	lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]	2.028780983	5.15E-10	1.74E-08
ENSMMUG00000042618	involucrin [Source:NCBI gene;Acc:713728]	2.030219706	4.17E-05	0.000464143
ENSMMUG00000020799	BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]	2.030691023	1.36E-10	5.14E-09
ENSMMUG00000046417	chromobox 2 [Source:NCBI gene;Acc:717462]	2.031784583	5.77E-07	1.05E-05
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]	2.033815792	3.16E-05	0.000361118
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]	2.040269438	1.70E-15	1.30E-13
ENSMMUG00000010007	CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]	2.040712441	8.49E-07	1.48E-05
ENSMMUG00000016438	protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]	2.040869085	9.72E-07	1.69E-05
ENSMMUG00000052227		2.042194903	0.000216386	0.001889516
ENSMMUG00000009973	proline rich coiled-coil 2B [Source:VGNC Symbol;Acc:VGNC:76327]	2.043709213	0.003453403	0.018524742
ENSMMUG00000058928	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.044471437	8.91E-10	2.91E-08
ENSMMUG00000049542		2.046563938	1.40E-05	0.000175957
ENSMMUG00000016111	chromosome 1 C1orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70432]	2.046641463	0.009475082	0.042076886
ENSMMUG00000016327	coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]	2.049501177	3.64E-16	3.17E-14
ENSMMUG00000041519	zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]	2.050062342	0.007644382	0.035515037
ENSMMUG00000008828	BEN domain containing 5 [Source:NCBI gene;Acc:711150]	2.052380628	3.91E-14	2.44E-12
ENSMMUG00000012941	nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]	2.054520933	9.33E-22	1.66E-19
ENSMMUG00000003437	signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]	2.055040957	1.03E-20	1.62E-18
ENSMMUG00000045654	tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]	2.058050831	0.000446698	0.003425853
ENSMMUG00000028907	insulin receptor [Source:NCBI gene;Acc:706009]	2.059614072	4.78E-05	0.00052192
ENSMMUG00000016417	chromobox 8 [Source:NCBI gene;Acc:717514]	2.059676023	9.77E-24	2.49E-21
ENSMMUG00000009988	transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]	2.061181297	6.67E-20	9.31E-18
ENSMMUG00000005432	clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]	2.062637604	2.84E-13	1.56E-11
ENSMMUG00000012697	AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]	2.063558792	1.08E-09	3.45E-08
ENSMMUG00000011513	versican [Source:VGNC Symbol;Acc:VGNC:79445]	2.064721546	1.43E-11	6.33E-10
ENSMMUG00000023192	choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]	2.06487059	6.42E-07	1.16E-05
ENSMMUG00000006568	basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]	2.068186778	9.09E-12	4.18E-10
ENSMMUG00000043675	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]	2.069052721	4.93E-14	3.04E-12
ENSMMUG00000023479	latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]	2.071074147	6.68E-16	5.56E-14
ENSMMUG00000013644	potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]	2.071835254	5.85E-09	1.65E-07
ENSMMUG00000009953	ninein like [Source:VGNC Symbol;Acc:VGNC:75273]	2.073108379	7.41E-19	9.33E-17
ENSMMUG00000055441		2.074007357	0.001045757	0.007018187
ENSMMUG00000019126	purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]	2.074811036	1.40E-07	2.92E-06
ENSMMUG00000057934		2.07552311	1.84E-07	3.71E-06
ENSMMUG00000011634	coagulation factor XI [Source:VGNC Symbol;Acc:VGNC:72460]	2.078899572	0.00350858	0.018727823
ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]	2.079117847	2.37E-17	2.29E-15
ENSMMUG00000057687		2.082669458	5.24E-18	5.72E-16
ENSMMUG00000017287	PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]	2.083085608	7.12E-14	4.30E-12
ENSMMUG00000009361	fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]	2.084374412	1.71E-10	6.27E-09
ENSMMUG00000057681		2.084541902	0.006666449	0.031819346
ENSMMUG00000014720	NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]	2.084650666	1.07E-06	1.83E-05
ENSMMUG00000007799	LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]	2.084893326	8.13E-08	1.79E-06
ENSMMUG00000019690	SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]	2.086586483	1.18E-06	2.01E-05
ENSMMUG00000023598	sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]	2.089356498	0.004304739	0.022236581
ENSMMUG00000007140	MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]	2.092775968	2.54E-05	0.000298688
ENSMMUG00000046478	WASH complex subunit 3 [Source:NCBI gene;Acc:697824]	2.093361611	1.02E-14	7.02E-13
ENSMMUG00000002421	DNA polymerase mu [Source:VGNC Symbol;Acc:VGNC:81742]	2.098374179	0.005785924	0.028352777

ENSMMUG00000050822	carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]	2.101433083	1.49E-17	1.50E-15
ENSMMUG00000060435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.102152231	0.007711737	0.035775217
ENSMMUG00000005297	proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]	2.103966744	2.89E-15	2.13E-13
ENSMMUG000000057157		2.108238696	1.01E-08	2.68E-07
ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]	2.109053745	2.61E-13	1.45E-11
ENSMMUG00000022116	PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]	2.110770098	7.40E-06	0.000101296
ENSMMUG00000012316	CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]	2.111828684	0.010201728	0.044526612
ENSMMUG00000019304	indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]	2.11387055	2.15E-06	3.42E-05
ENSMMUG00000050456	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.114184244	0.000631957	0.004606898
ENSMMUG00000053460		2.116528931	1.02E-11	4.63E-10
ENSMMUG00000019070	focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]	2.123866402	1.54E-29	7.16E-27
ENSMMUG00000014265	TAP binding protein like [Source:NCBI gene;Acc:712626]	2.125070749	1.51E-14	9.96E-13
ENSMMUG00000004283	calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]	2.129521149	5.14E-05	0.000555241
ENSMMUG00000059504		2.130356553	2.79E-06	4.27E-05
ENSMMUG00000009508	TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]	2.132454314	0.000876841	0.006055291
ENSMMUG00000058536		2.132646288	1.03E-14	7.04E-13
ENSMMUG00000018664	collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]	2.133405665	3.68E-12	1.76E-10
ENSMMUG00000006659	aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]	2.136130563	6.38E-09	1.78E-07
ENSMMUG00000022003	multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]	2.136879954	2.00E-10	7.30E-09
ENSMMUG00000014828	heparan sulfate proteoglycan 2 [Source:VGNC Symbol;Acc:VGNC:73534]	2.137871534	0.004025596	0.021003673
ENSMMUG00000004257	beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]	2.141539469	2.27E-08	5.56E-07
ENSMMUG00000007925	serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]	2.146668338	1.22E-05	0.000156105
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]	2.146951375	2.09E-17	2.04E-15
ENSMMUG00000052961		2.147519989	0.000347756	0.002822063
ENSMMUG00000017510	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]	2.150277693	1.39E-15	1.10E-13
ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]	2.152273898	1.62E-18	1.91E-16
ENSMMUG00000058472	late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]	2.152656792	9.17E-06	0.000122411
ENSMMUG00000055199	cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]	2.15718975	2.72E-06	4.19E-05
ENSMMUG00000064229		2.157847273	1.96E-05	0.000239067
ENSMMUG00000017209	C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]	2.158035789	7.81E-05	0.00079394
ENSMMUG00000051975		2.159044917	1.70E-10	6.27E-09
ENSMMUG00000056381	forkhead box R1 [Source:NCBI gene;Acc:707285]	2.162720589	1.57E-08	4.01E-07
ENSMMUG00000014237	lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]	2.163203454	6.00E-29	2.46E-26
ENSMMUG00000064915	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.163768364	0.002931268	0.016338543
ENSMMUG00000049130		2.165351453	2.43E-22	4.64E-20
ENSMMUG00000031534	ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]	2.166493881	5.67E-16	4.81E-14
ENSMMUG00000018790	activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]	2.167466056	5.40E-16	4.61E-14
ENSMMUG00000021039	X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]	2.171821157	2.95E-10	1.07E-08
ENSMMUG00000009199	glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]	2.171975983	2.27E-18	2.60E-16
ENSMMUG00000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]	2.175243366	1.15E-12	5.88E-11
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]	2.175575938	2.06E-11	8.84E-10
ENSMMUG00000060581		2.178815024	2.32E-05	0.000275759
ENSMMUG00000053781	Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]	2.179257543	9.06E-05	0.000893736
ENSMMUG00000061424	ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]	2.179677472	3.33E-07	6.37E-06
ENSMMUG00000017927	protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]	2.184190314	1.29E-05	0.000164565
ENSMMUG00000044048	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.188173894	1.17E-07	2.48E-06
ENSMMUG00000023816	semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]	2.191066922	2.12E-21	3.62E-19
ENSMMUG00000045256	cellular communication network factor 5 [Source:NCBI gene;Acc:717872]	2.192450428	6.47E-06	9.05E-05
ENSMMUG00000019418	erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]	2.193531076	1.17E-19	1.58E-17
ENSMMUG00000056010		2.2022034	0.006741094	0.032076432
ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]	2.203101092	4.48E-07	8.32E-06

ENSMMUG0000000802	regulatory factor X3 [Source:VGNC Symbol;Acc:VGNC:76908]	2.203223044	2.68E-05	0.000313128
ENSMMUG00000049391		2.207490121	0.000139185	0.001283632
ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]	2.207639436	3.24E-07	6.22E-06
ENSMMUG00000002566	selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]	2.20972243	0.008689131	0.039244749
ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]	2.215320463	1.43E-20	2.18E-18
ENSMMUG000000032659	mml-mir-711 [Source:miRBase;Acc:MI0012553]	2.216454956	9.69E-05	0.000946534
ENSMMUG000000062794		2.219365115	6.79E-09	1.87E-07
ENSMMUG00000010316	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]	2.22061478	0.000453051	0.003466269
ENSMMUG00000012668	centriolin [Source:VGNC Symbol;Acc:VGNC:71204]	2.225372178	6.15E-18	6.65E-16
ENSMMUG000000051925		2.226570916	6.96E-11	2.76E-09
ENSMMUG000000055775	transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]	2.226803307	1.49E-22	2.93E-20
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]	2.230534527	3.31E-14	2.08E-12
ENSMMUG00000002397	GIN5 complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]	2.235864182	1.70E-19	2.25E-17
ENSMMUG00000001748	spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]	2.235886041	2.55E-06	3.96E-05
ENSMMUG00000017450	MOB kinase activator 2 [Source:NCBI gene;Acc:720951]	2.240869633	9.08E-05	0.000894873
ENSMMUG000000059318	urocortin 2 [Source:NCBI gene;Acc:106996925]	2.246959168	1.97E-29	8.82E-27
ENSMMUG000000051645		2.248537993	0.003462476	0.018558072
ENSMMUG00000015952	katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]	2.250579043	0.000306	0.002533926
ENSMMUG00000003834	basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]	2.251501963	1.18E-14	7.89E-13
ENSMMUG000000063914		2.256395612	4.57E-24	1.19E-21
ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]	2.257455565	6.95E-10	2.30E-08
ENSMMUG00000013830	glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]	2.258282643	1.58E-11	6.91E-10
ENSMMUG000000064250		2.25971044	0.011812609	0.04984729
ENSMMUG00000007200	NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]	2.26082148	6.38E-21	1.01E-18
ENSMMUG000000021073	RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]	2.263011247	9.56E-18	1.00E-15
ENSMMUG00000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]	2.2630753	5.25E-14	3.22E-12
ENSMMUG00000017189	regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]	2.263649144	2.42E-12	1.20E-10
ENSMMUG000000009066	60S ribosomal protein L26 [Source:NCBI gene;Acc:696134]	2.266879908	0.01152184	0.048938592
ENSMMUG000000052637	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.267706798	0.000351754	0.002849748
ENSMMUG000000062326		2.269593217	1.97E-11	8.51E-10
ENSMMUG000000057095		2.270195347	0.001870955	0.011318187
ENSMMUG000000064554	leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]	2.271967822	2.09E-06	3.35E-05
ENSMMUG00000018967	ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]	2.272319218	1.88E-18	2.19E-16
ENSMMUG000000062781	chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]	2.28538952	5.55E-20	7.83E-18
ENSMMUG00000006758	cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]	2.289535179	0.000275716	0.002318655
ENSMMUG00000005992	zinc metalloproteinase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]	2.289799524	2.28E-07	4.52E-06
ENSMMUG000000044257	MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]	2.297135107	9.19E-11	3.58E-09
ENSMMUG00000018823	transmembrane protein 191C [Source:NCBI gene;Acc:697070]	2.311535269	0.003030271	0.016775083
ENSMMUG00000004376	calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]	2.311906915	1.25E-22	2.52E-20
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]	2.312795345	2.87E-16	2.55E-14
ENSMMUG000000021634	TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]	2.313641396	3.68E-21	6.12E-19
ENSMMUG000000059374		2.313964619	3.42E-08	8.08E-07
ENSMMUG00000008529	chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]	2.314306641	1.62E-07	3.32E-06
ENSMMUG00000006980	septin 7 [Source:VGNC Symbol;Acc:VGNC:81759]	2.317138332	0.000542011	0.004037391
ENSMMUG000000056798		2.318950201	1.58E-05	0.000196697
ENSMMUG000000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]	2.319800091	1.19E-17	1.22E-15
ENSMMUG000000063525		2.321327984	1.15E-07	2.45E-06
ENSMMUG00000019526	BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]	2.321500125	7.84E-10	2.58E-08
ENSMMUG00000017740	sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]	2.322311858	2.94E-05	0.000338956
ENSMMUG00000016678	Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]	2.331480697	3.26E-10	1.17E-08
ENSMMUG000000049703	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.332379995	6.76E-23	1.44E-20

ENSMMUG00000014240	thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]	2.334374356	1.84E-07	3.72E-06
ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]	2.33536013	6.39E-10	2.14E-08
ENSMMUG00000011633	kallikrein B1 [Source:VGNC Symbol;Acc:VGNC:74195]	2.33578395	0.000279376	0.002344882
ENSMMUG00000060795		2.341292504	1.56E-06	2.55E-05
ENSMMUG00000005302	BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]	2.343350045	2.92E-23	6.90E-21
ENSMMUG00000045093	cyclin B3 [Source:NCBI gene;Acc:694534]	2.344530927	2.28E-20	3.37E-18
ENSMMUG00000053722		2.345472535	0.007935989	0.036594668
ENSMMUG00000049537	phosphoribosyl pyrophosphate synthetase associated protein 1 [Source:NCBI gene;Acc:706625]	2.346084082	0.008323611	0.03793719
ENSMMUG00000019032	EMAP like 2 [Source:NCBI gene;Acc:715009]	2.346511958	0.000653252	0.004732882
ENSMMUG00000016096	lamin A/C [Source:VGNC Symbol;Acc:VGNC:74427]	2.35458245	0.000373232	0.002984539
ENSMMUG00000005380	zinc finger protein 827 [Source:NCBI gene;Acc:706018]	2.356849176	1.67E-15	1.29E-13
ENSMMUG00000015744	zinc finger protein 302 [Source:NCBI gene;Acc:706279]	2.358342166	3.88E-15	2.83E-13
ENSMMUG00000021610	regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]	2.35960899	1.59E-17	1.59E-15
ENSMMUG00000055811		2.361568982	1.97E-15	1.50E-13
ENSMMUG00000062217	HD domain containing 3 [Source:NCBI gene;Acc:715621]	2.361866506	3.66E-09	1.08E-07
ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]	2.365186044	2.11E-12	1.06E-10
ENSMMUG00000013871	WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]	2.366508197	6.72E-23	1.44E-20
ENSMMUG00000022381	prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]	2.368149047	0.003091429	0.017033706
ENSMMUG00000000803	signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]	2.368656986	7.34E-18	7.88E-16
ENSMMUG00000023060	A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]	2.36975352	1.05E-06	1.80E-05
ENSMMUG00000020177	membrane spanning 4-domains A4A [Source:NCBI gene;Acc:698027]	2.372308284	1.07E-06	1.83E-05
ENSMMUG00000051816	keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]	2.377958055	8.98E-16	7.33E-14
ENSMMUG00000006931	kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]	2.379332087	9.81E-23	2.02E-20
ENSMMUG00000002679	lactate dehydrogenase B [Source:NCBI gene;Acc:706110]	2.389202366	0.004648889	0.023684326
ENSMMUG00000054211		2.390697636	0.000400399	0.003153576
ENSMMUG00000018619	DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]	2.395180774	5.30E-05	0.000571551
ENSMMUG00000050529	phosphodiesterase 6H [Source:NCBI gene;Acc:700447]	2.395183664	0.005468291	0.027061993
ENSMMUG00000050339	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.396069505	3.05E-07	5.87E-06
ENSMMUG00000016442	glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]	2.403037643	0.000421295	0.003279376
ENSMMUG00000004587	gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]	2.406969063	0.000610505	0.004461352
ENSMMUG00000025918	small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]	2.412342578	0.002570626	0.014700943
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]	2.414726041	5.54E-09	1.58E-07
ENSMMUG00000057570		2.418213955	1.13E-14	7.60E-13
ENSMMUG00000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]	2.420281124	1.49E-14	9.84E-13
ENSMMUG00000018137	MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]	2.421913159	9.67E-17	9.03E-15
ENSMMUG00000009816	exosome component 9 [Source:VGNC Symbol;Acc:VGNC:72477]	2.427565591	1.89E-06	3.05E-05
ENSMMUG00000043738		2.428260498	0.001056821	0.007079663
ENSMMUG00000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]	2.431722532	0.00032666	0.002671389
ENSMMUG00000020683	RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]	2.435275256	1.79E-16	1.65E-14
ENSMMUG00000017758	mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]	2.444460696	2.97E-25	9.16E-23
ENSMMUG00000065295		2.444764955	5.98E-23	1.32E-20
ENSMMUG00000018151	membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]	2.445483822	0.000400142	0.003153576
ENSMMUG00000043648		2.451989895	4.13E-06	6.03E-05
ENSMMUG00000016404	chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]	2.453340284	0.002033653	0.012060643
ENSMMUG00000062996		2.4584153	0.00011237	0.001071357
ENSMMUG00000007773	solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]	2.460033004	0.0018965	0.011430091
ENSMMUG00000035943	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.461668534	3.50E-08	8.23E-07
ENSMMUG00000015258	glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]	2.467674018	0.009418279	0.041867621
ENSMMUG00000013450	TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]	2.47058187	1.37E-06	2.29E-05
ENSMMUG00000055266	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]	2.474101574	0.000190986	0.001689325
ENSMMUG00000038524	olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]	2.474723246	3.07E-27	1.14E-24

ENSMMUG00000021877	protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]	2.476712627	0.000271882	0.002293846
ENSMMUG00000061787		2.478899583	0.001862629	0.011283604
ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]	2.487775518	3.82E-25	1.15E-22
ENSMMUG00000021476	BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]	2.501928211	0.000658091	0.004757323
ENSMMUG00000004616	plasminogen activator, urokinase receptor [Source:VGNC Symbol;Acc:VGNC:76163]	2.502916011	0.004380825	0.022602618
ENSMMUG00000017036	nicalin [Source:VGNC Symbol;Acc:VGNC:75032]	2.505971752	3.89E-21	6.40E-19
ENSMMUG00000013283	cadherin related family member 2 [Source:NCBI gene;Acc:697249]	2.51544345	6.95E-11	2.76E-09
ENSMMUG00000049678		2.517594348	1.85E-13	1.06E-11
ENSMMUG00000040393	zinc finger protein 655 [Source:NCBI gene;Acc:718811]	2.52059288	6.20E-10	2.08E-08
ENSMMUG00000008923	Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]	2.52066989	3.67E-12	1.76E-10
ENSMMUG00000063981	nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]	2.521899133	1.71E-06	2.77E-05
ENSMMUG00000064931		2.522527795	0.003784908	0.019907971
ENSMMUG00000022401	EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]	2.526635505	2.07E-17	2.03E-15
ENSMMUG00000053457	caspase 14 [Source:NCBI gene;Acc:718049]	2.529610846	4.64E-07	8.61E-06
ENSMMUG00000054237	Y RNA [Source:RFAM;Acc:RF00019]	2.530859004	9.77E-05	0.00095033
ENSMMUG00000022247	osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]	2.53364698	2.19E-12	1.09E-10
ENSMMUG00000048215		2.538691624	3.83E-06	5.63E-05
ENSMMUG00000056376		2.541261894	1.24E-21	2.18E-19
ENSMMUG00000004332	tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]	2.557047644	4.24E-10	1.47E-08
ENSMMUG00000003833	Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]	2.558586885	7.93E-09	2.16E-07
ENSMMUG00000058534		2.559544458	6.49E-05	0.0006784
ENSMMUG00000059432		2.560115346	0.000414476	0.003237425
ENSMMUG00000058176	b-defensin2-like [Source:NCBI gene;Acc:100169969]	2.560493928	2.44E-29	1.06E-26
ENSMMUG00000058935	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.561264119	0.000174076	0.001555775
ENSMMUG00000058229	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.562330534	0.003823928	0.020091684
ENSMMUG00000005108	RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]	2.56434212	9.79E-07	1.69E-05
ENSMMUG00000049479		2.575812379	0.011584702	0.049141252
ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.579134693	6.37E-12	2.99E-10
ENSMMUG00000004794	DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]	2.582698609	4.75E-08	1.08E-06
ENSMMUG00000054746		2.584161195	0.003269191	0.017749384
ENSMMUG00000015716	protein phosphatase with EF-hand domain 2 [Source:VGNC Symbol;Acc:VGNC:76233]	2.589151075	3.05E-06	4.62E-05
ENSMMUG00000012040	enolase 3 [Source:VGNC Symbol;Acc:VGNC:72220]	2.589449415	0.008821203	0.039766323
ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]	2.59227537	3.46E-22	6.23E-20
ENSMMUG00000058758		2.594533606	0.001197331	0.007842789
ENSMMUG00000052228	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	2.595475243	0.000336638	0.002743853
ENSMMUG00000001545	aquaporin 7 [Source:NCBI gene;Acc:702836]	2.596353447	3.45E-09	1.02E-07
ENSMMUG00000064401		2.597303067	0.006307933	0.030428155
ENSMMUG00000038997	zygote arrest 1 like [Source:NCBI gene;Acc:100427970]	2.598437587	0.003469736	0.018579583
ENSMMUG00000010318	phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]	2.602897362	3.72E-09	1.10E-07
ENSMMUG00000023139	small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]	2.60399278	2.24E-25	7.10E-23
ENSMMUG00000017983	tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]	2.615141015	0.001646532	0.010212908
ENSMMUG00000050585		2.616854711	8.57E-17	8.06E-15
ENSMMUG00000008536	mitogen-activated protein kinase 7 [Source:VGNC Symbol;Acc:VGNC:74648]	2.618199075	0.000118417	0.001119139
ENSMMUG00000050495		2.620427856	4.44E-05	0.000488385
ENSMMUG00000058423		2.628268347	4.62E-10	1.58E-08
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]	2.630461097	3.16E-12	1.53E-10
ENSMMUG00000017501	N-acylethanolamine acid amidase [Source:VGNC Symbol;Acc:VGNC:75068]	2.631337319	4.59E-10	1.58E-08
ENSMMUG00000052954	Wnt family member 6 [Source:NCBI gene;Acc:700573]	2.641457347	3.27E-06	4.90E-05
ENSMMUG00000054686		2.650345402	4.16E-20	6.00E-18
ENSMMUG00000046918		2.657265612	3.54E-05	0.000401269
ENSMMUG00000058095	visual system homeobox 1 [Source:NCBI gene;Acc:715973]	2.667146427	1.36E-06	2.26E-05

ENSMMUG00000064174		2.669017818	4.39E-06	6.36E-05
ENSMMUG00000057640	plakophilin-3-like [Source:NCBI gene;Acc:114669833]	2.670382504	5.13E-19	6.53E-17
ENSMMUG00000053376		2.673968363	2.02E-17	2.00E-15
ENSMMUG00000057790		2.674555623	0.003093183	0.017036139
ENSMMUG00000016580	selectin E [Source:VGNC Symbol;Acc:VGNC:77156]	2.695079059	1.22E-31	6.61E-29
ENSMMUG00000019528	adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]	2.697420262	9.50E-29	3.73E-26
ENSMMUG00000022467	membrane bound transcription factor peptidase, site 2 [Source:NCBI gene;Acc:696540]	2.70964231	0.011590349	0.049144917
ENSMMUG00000058916		2.713530267	5.02E-13	2.70E-11
ENSMMUG00000003797	ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]	2.714404623	9.52E-09	2.55E-07
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]	2.717203807	0.000242588	0.0020764
ENSMMUG00000002963	Rho GTPase activating protein 32 [Source:VGNC Symbol;Acc:VGNC:69855]	2.721579132	9.67E-07	1.68E-05
ENSMMUG00000059087		2.7259611	0.010490156	0.04550995
ENSMMUG00000051503	nuclear pore associated protein 1 [Source:NCBI gene;Acc:719891]	2.728527379	5.74E-07	1.05E-05
ENSMMUG00000008538	microfibril associated protein 4 [Source:VGNC Symbol;Acc:VGNC:74710]	2.73210696	1.39E-05	0.000175353
ENSMMUG00000033121	Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]	2.737666166	0.011744275	0.049591186
ENSMMUG00000011777	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:82108]	2.741145506	0.002502138	0.014370638
ENSMMUG00000002959	helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]	2.747766042	7.61E-23	1.59E-20
ENSMMUG00000016827	UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]	2.750221242	7.14E-07	1.27E-05
ENSMMUG00000036223		2.75076903	0.004232937	0.02192678
ENSMMUG00000056063		2.754166662	0.000390241	0.003095214
ENSMMUG00000060767		2.756854726	3.72E-07	7.02E-06
ENSMMUG00000054634	late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]	2.763321845	0.0098696	0.043427578
ENSMMUG00000064895		2.764978428	0.002353835	0.013647616
ENSMMUG00000025050	Y RNA [Source:RFAM;Acc:RF00019]	2.776734139	0.000428393	0.00332063
ENSMMUG00000000452	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]	2.778304873	0.000304118	0.002524786
ENSMMUG00000000152	transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]	2.779331979	4.48E-09	1.29E-07
ENSMMUG00000001273	clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]	2.779700556	4.81E-20	6.85E-18
ENSMMUG00000005595	RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]	2.779831723	0.000340217	0.002769547
ENSMMUG00000053601		2.786234731	0.00163756	0.010171842
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]	2.791181446	0.011332188	0.048338749
ENSMMUG00000016434	NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]	2.791991911	1.46E-07	3.03E-06
ENSMMUG00000063622	mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]	2.794883325	3.05E-10	1.09E-08
ENSMMUG00000018743	ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]	2.798303434	0.010119343	0.044226539
ENSMMUG00000009308	histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]	2.799681764	1.27E-05	0.000162486
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]	2.808632585	4.82E-39	5.68E-36
ENSMMUG00000056184		2.819809665	5.55E-05	0.000595478
ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]	2.820912992	1.80E-07	3.66E-06
ENSMMUG00000059700		2.824762048	0.01155844	0.049045887
ENSMMUG00000038988	RNase MRP [Source:RFAM;Acc:RF00030]	2.8321585	0.009355094	0.0416581
ENSMMUG00000061533		2.834550381	2.05E-18	2.38E-16
ENSMMUG00000007534	protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]	2.835504519	6.73E-14	4.08E-12
ENSMMUG00000058311		2.837111634	6.78E-09	1.87E-07
ENSMMUG00000040071		2.846010049	9.84E-06	0.000130546
ENSMMUG00000021357	zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]	2.860549664	3.35E-05	0.000381421
ENSMMUG00000015693	lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]	2.862019315	1.66E-06	2.72E-05
ENSMMUG00000038944		2.86647995	3.17E-37	2.57E-34
ENSMMUG00000013284	G protein regulated inducer of neurite outgrowth 1 [Source:VGNC Symbol;Acc:VGNC:72998]	2.86969963	0.003561691	0.018964506
ENSMMUG00000010466	solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]	2.870873749	1.79E-14	1.16E-12
ENSMMUG00000053984		2.872139561	1.48E-06	2.46E-05
ENSMMUG00000016579	selectin L [Source:NCBI gene;Acc:701419]	2.872679507	2.19E-36	1.58E-33
ENSMMUG00000057539		2.87733107	3.94E-09	1.15E-07

ENSMMUG00000064694	AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]	2.87936961	0.006013702	0.029259016
ENSMMUG00000016929	proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]	2.88536175	1.23E-08	3.24E-07
ENSMMUG00000057499		2.886577105	7.65E-09	2.08E-07
ENSMMUG00000000376	bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]	2.896104997	5.10E-05	0.000553587
ENSMMUG00000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]	2.897758103	2.68E-18	2.99E-16
ENSMMUG00000009312	leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]	2.898302906	1.54E-14	1.01E-12
ENSMMUG00000009668	transmembrane and coiled-coil domains 5A [Source:VGNC Symbol;Acc:VGNC:79725]	2.907539804	0.001326315	0.00853673
ENSMMUG00000006066	phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]	2.910829398	3.16E-21	5.32E-19
ENSMMUG00000064341	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]	2.911809411	0.005821941	0.028469574
ENSMMUG00000053406		2.915535287	0.002441675	0.014056424
ENSMMUG00000020534	p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]	2.93349669	1.16E-33	6.84E-31
ENSMMUG00000013136	Y-box binding protein 1 [Source:NCBI gene;Acc:700140]	2.935916754	0.007801304	0.036101896
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]	2.937321285	6.30E-26	2.15E-23
ENSMMUG00000019306	indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]	2.938138921	0.002618998	0.014918401
ENSMMUG00000061031		2.941164432	3.82E-19	4.96E-17
ENSMMUG00000002917	single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]	2.941344656	6.84E-11	2.73E-09
ENSMMUG00000064730		2.944276937	8.27E-18	8.80E-16
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]	2.947989893	2.72E-40	3.53E-37
ENSMMUG00000051537		2.957963039	1.78E-06	2.88E-05
ENSMMUG00000014707	cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]	2.967204254	1.19E-08	3.14E-07
ENSMMUG00000010837	VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]	2.977985197	6.99E-07	1.25E-05
ENSMMUG00000021477	ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]	2.985195053	0.000417967	0.003257382
ENSMMUG00000057331	RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]	2.995680267	1.93E-40	3.12E-37
ENSMMUG00000016737	contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]	3.003691853	0.002021033	0.012002117
ENSMMUG00000014397	NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]	3.005419248	8.71E-14	5.19E-12
ENSMMUG00000005554	mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]	3.026816478	2.70E-12	1.33E-10
ENSMMUG00000060750	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.037036936	0.003696982	0.019532588
ENSMMUG00000049755	leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]	3.046011206	1.01E-05	0.000133042
ENSMMUG00000017503	SDA1 domain containing 1 [Source:NCBI gene;Acc:700863]	3.04723874	1.95E-05	0.000238586
ENSMMUG00000023286	UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]	3.047677257	1.89E-26	6.62E-24
ENSMMUG00000001475	transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]	3.048090127	3.54E-08	8.30E-07
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]	3.071744958	0.000239378	0.00205163
ENSMMUG00000011914	prospero homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76427]	3.074749262	5.62E-06	7.98E-05
ENSMMUG00000017380	neuregulin 3 [Source:NCBI gene;Acc:699268]	3.078264563	0.000602084	0.004421602
ENSMMUG00000005106	unc-45 myosin chaperone A [Source:VGNC Symbol;Acc:VGNC:79858]	3.081059044	0.001931476	0.01159153
ENSMMUG00000005625	fibrosin [Source:NCBI gene;Acc:712741]	3.082078175	0.000929684	0.006369368
ENSMMUG00000000544	collagen type VI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:82084]	3.082748123	0.002120861	0.012494784
ENSMMUG00000058700	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.092968317	0.006903091	0.032715308
ENSMMUG00000063198		3.105485475	0.000147892	0.001360057
ENSMMUG00000012147	collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]	3.11672704	6.97E-31	3.48E-28
ENSMMUG00000015468	checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]	3.117637123	9.13E-16	7.36E-14
ENSMMUG00000057813		3.122600681	7.92E-07	1.40E-05
ENSMMUG00000005997	cell division cycle 14B [Source:NCBI gene;Acc:710300]	3.124775474	8.34E-05	0.000835235
ENSMMUG00000056393		3.127782054	0.011180934	0.047901343
ENSMMUG00000005355	TIMP metalloproteinase inhibitor 2 [Source:NCBI gene;Acc:574357]	3.131495784	0.000370164	0.002963138
ENSMMUG00000026950	microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]	3.137935491	1.42E-05	0.000177911
ENSMMUG00000033550		3.156514259	0.003478474	0.01860539
ENSMMUG00000027541	Small nucleolar RNA SNORA70 [Source:RFAM;Acc:RF00156]	3.157140534	0.005209925	0.025991539
ENSMMUG00000055918		3.16418876	0.001193015	0.007818478
ENSMMUG00000059175		3.183217226	1.09E-27	4.14E-25
ENSMMUG00000019961	protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]	3.187505927	0.001815167	0.011058032

ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.192304684	5.10E-15	3.63E-13
ENSMMUG00000057520		3.202335026	0.006862479	0.03254661
ENSMMUG00000053790		3.205149698	1.88E-37	1.63E-34
ENSMMUG00000063346		3.222553985	0.000436776	0.003369564
ENSMMUG00000042598	transmembrane protein 18 [Source:NCBI gene;Acc:721515]	3.236821489	5.11E-18	5.61E-16
ENSMMUG00000020668	cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]	3.241893557	6.06E-46	2.62E-42
ENSMMUG00000050543		3.291521027	5.95E-23	1.32E-20
ENSMMUG00000035160	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]	3.3159477	0.005958426	0.029011833
ENSMMUG00000021019	E3 SUMO-protein ligase RanBP2 [Source:NCBI gene;Acc:694823]	3.328231161	0.000373527	0.002984539
ENSMMUG00000021062	CD177 molecule [Source:VGNC Symbol;Acc:VGNC:70912]	3.330574498	7.91E-07	1.40E-05
ENSMMUG00000053611	stromal cell derived factor 2 [Source:NCBI gene;Acc:716189]	3.338361708	0.000119302	0.001125042
ENSMMUG00000057983		3.340689612	0.003174883	0.017401853
ENSMMUG00000001058	tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]	3.343383387	2.53E-40	3.53E-37
ENSMMUG00000055022	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	3.345737514	0.00338952	0.018265119
ENSMMUG00000053083	C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]	3.351956411	9.22E-14	5.46E-12
ENSMMUG00000005415	olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]	3.355234662	0.009635281	0.042622723
ENSMMUG00000001845	DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]	3.355965869	1.36E-20	2.10E-18
ENSMMUG00000059321		3.383778535	0.00174084	0.010685494
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]	3.409948927	7.76E-62	7.15E-58
ENSMMUG00000010632	family with sequence similarity 81 member B [Source:VGNC Symbol;Acc:VGNC:72365]	3.447102928	0.00243605	0.014036497
ENSMMUG00000018298	killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]	3.449038534	0.000313393	0.002585242
ENSMMUG00000006853	crystallin beta B2 [Source:NCBI gene;Acc:100144420]	3.461625579	4.52E-13	2.44E-11
ENSMMUG00000010614	C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]	3.467074444	0.001901674	0.011450638
ENSMMUG00000024668	Y RNA [Source:RFAM;Acc:RF00019]	3.469983293	0.01034607	0.045065661
ENSMMUG00000053627		3.495016736	8.78E-06	0.000117796
ENSMMUG00000004470	CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]	3.502798284	1.35E-05	0.000171004
ENSMMUG00000021564	lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]	3.505826047	5.52E-06	7.85E-05
ENSMMUG00000053220	olfactory receptor 111 [Source:NCBI gene;Acc:719077]	3.509379079	0.000133467	0.001238815
ENSMMUG00000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]	3.513722494	0.000224319	0.001945694
ENSMMUG00000022437	peptidyl arginine deiminase 6 [Source:VGNC Symbol;Acc:VGNC:75657]	3.517445583	0.001185229	0.007779224
ENSMMUG00000023310	tetraspanin 12 [Source:VGNC Symbol;Acc:VGNC:79328]	3.51990588	0.009410287	0.041846431
ENSMMUG00000028947	complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]	3.524090317	1.10E-61	7.15E-58
ENSMMUG00000059084		3.539905101	0.006853786	0.032529162
ENSMMUG00000062092		3.547477644	0.000153004	0.00140101
ENSMMUG00000063913	endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]	3.552539107	6.24E-05	0.000654969
ENSMMUG00000022282	collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]	3.567008622	0.000112839	0.001074251
ENSMMUG00000063699		3.590244211	0.007394108	0.034600054
ENSMMUG00000028948	azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]	3.594928983	1.09E-08	2.87E-07
ENSMMUG00000022893	von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]	3.596920317	7.66E-16	6.33E-14
ENSMMUG00000004749	PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]	3.606393221	2.18E-06	3.45E-05
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]	3.608576184	8.23E-35	5.34E-32
ENSMMUG00000001967	late cornified envelope 5A [Source:VGNC Symbol;Acc:VGNC:74061]	3.616917324	0.007407942	0.034639803
ENSMMUG00000008784	lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]	3.61997364	0.002121828	0.012494784
ENSMMUG00000008791	CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]	3.628796951	5.07E-38	5.49E-35
ENSMMUG00000061935		3.633480109	2.71E-22	4.96E-20
ENSMMUG00000056794	cystatin E/M [Source:NCBI gene;Acc:714999]	3.662964834	0.004642578	0.023670761
ENSMMUG00000000276	NACC family member 2 [Source:VGNC Symbol;Acc:VGNC:75013]	3.673271669	0.000658855	0.004760193
ENSMMUG00000011878	poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]	3.677852041	1.75E-35	1.19E-32
ENSMMUG00000016549	matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]	3.701846037	2.17E-15	1.62E-13
ENSMMUG00000057632		3.702781722	2.70E-18	3.00E-16
ENSMMUG00000018549	zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]	3.707265521	1.40E-11	6.22E-10

ENSMMUG00000012405	transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]	3.711731719	9.59E-16	7.68E-14
ENSMMUG0000001338	antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]	3.719835453	2.64E-05	0.000308882
ENSMMUG0000002267	laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]	3.726670934	2.65E-06	4.10E-05
ENSMMUG00000017822	periplakin [Source:VGNC Symbol;Acc:VGNC:76240]	3.733861004	8.21E-17	7.78E-15
ENSMMUG00000064095		3.740376207	2.04E-05	0.000247511
ENSMMUG00000057481		3.742970355	0.000236788	0.00203212
ENSMMUG00000062294		3.774332767	0.008051595	0.036975791
ENSMMUG00000024537		3.779281209	1.23E-06	2.07E-05
ENSMMUG00000058817		3.834498475	1.99E-22	3.85E-20
ENSMMUG00000046169		3.835560722	9.35E-32	5.27E-29
ENSMMUG00000052168		3.840462742	1.62E-37	1.51E-34
ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]	3.841799533	1.68E-11	7.31E-10
ENSMMUG00000052785	extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]	3.842285001	0.004242897	0.021969604
ENSMMUG00000018396	HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]	3.856534991	6.08E-29	2.46E-26
ENSMMUG00000060184	SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]	3.950688899	5.80E-05	0.000615302
ENSMMUG0000004330	peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]	3.955595348	1.05E-06	1.81E-05
ENSMMUG00000022884	glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]	3.961222387	3.58E-08	8.36E-07
ENSMMUG00000065319		3.99633178	8.17E-06	0.000110546
ENSMMUG00000050799		4.031254365	0.010043034	0.043937428
ENSMMUG00000017930	striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]	4.047897202	6.01E-23	1.32E-20
ENSMMUG00000005920	N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]	4.070584692	8.36E-05	0.000835235
ENSMMUG00000031684	KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]	4.129302468	0.000107793	0.001036859
ENSMMUG00000029186	exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]	4.131181525	0.001217658	0.007951854
ENSMMUG00000003926	BCL2 like 12 [Source:NCBI gene;Acc:718981]	4.136829281	0.007100047	0.033514083
ENSMMUG00000023403	GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]	4.146245463	9.28E-11	3.60E-09
ENSMMUG00000004982	activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]	4.150772134	0.001972596	0.011801015
ENSMMUG00000005737	SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]	4.155328355	2.10E-07	4.20E-06
ENSMMUG00000057671		4.168113503	0.010624203	0.045953219
ENSMMUG00000062091		4.168795114	2.78E-09	8.36E-08
ENSMMUG00000003874	interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]	4.177527886	2.05E-36	1.56E-33
ENSMMUG00000064014		4.207970367	0.007105744	0.033528777
ENSMMUG00000009499	mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]	4.241590791	3.97E-44	1.29E-40
ENSMMUG00000059985		4.265189018	0.001542551	0.009678985
ENSMMUG00000011344	solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]	4.280862654	6.71E-07	1.21E-05
ENSMMUG00000049267		4.299661339	4.59E-15	3.33E-13
ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]	4.311737614	6.59E-31	3.42E-28
ENSMMUG00000059782		4.327730792	3.70E-07	6.99E-06
ENSMMUG00000043396	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.332575126	7.33E-06	0.000100563
ENSMMUG00000006655	myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]	4.344106845	1.05E-08	2.79E-07
ENSMMUG00000057179	cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]	4.357209655	6.63E-17	6.33E-15
ENSMMUG00000029652	mitogen-activated protein kinase 6 [Source:NCBI gene;Acc:694998]	4.385240524	0.01032207	0.044991325
ENSMMUG00000011682	ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]	4.406840247	1.25E-06	2.11E-05
ENSMMUG00000013493	ornithine carbamoyltransferase [Source:VGNC Symbol;Acc:VGNC:75723]	4.456189774	0.007588375	0.035312882
ENSMMUG00000021157	TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]	4.475080386	8.82E-09	2.38E-07
ENSMMUG00000016999	KIAA0232 [Source:VGNC Symbol;Acc:VGNC:73922]	4.48622769	0.000645347	0.004683728
ENSMMUG00000056248		4.508518862	6.13E-34	3.79E-31
ENSMMUG00000022921	solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]	4.533066475	4.13E-43	8.92E-40
ENSMMUG00000048462	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	4.556801906	0.010868604	0.046817351
ENSMMUG00000061974		4.587954666	0.010396537	0.045239929
ENSMMUG00000004801	COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]	4.610187018	3.83E-43	8.92E-40
ENSMMUG00000014738	bromodomain containing 9 [Source:VGNC Symbol;Acc:VGNC:70386]	4.610195675	0.002587601	0.014778482

ENSMMUG00000060308		4.619276024	0.005603297	0.027614276
ENSMMUG00000020010	cadherin 17 [Source:VGNC Symbol;Acc:VGNC:70810]	4.663560124	0.004766599	0.024151266
ENSMMUG00000014227	cholinergic receptor muscarinic 5 [Source:VGNC Symbol;Acc:VGNC:71044]	4.696986948	0.001761981	0.01081015
ENSMMUG00000063779		4.708901558	7.54E-42	1.40E-38
ENSMMUG00000051037		4.718648478	1.29E-09	4.10E-08
ENSMMUG00000003005	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]	4.751512466	0.000885858	0.006104562
ENSMMUG00000049298	cholecystokinin A receptor [Source:NCBI gene;Acc:694742]	4.851396991	0.002725307	0.015395553
ENSMMUG00000054736		4.881758645	2.17E-11	9.27E-10
ENSMMUG00000016553	solute carrier family 12 member 5 [Source:VGNC Symbol;Acc:VGNC:77471]	4.94110727	0.001856851	0.011253851
ENSMMUG00000050436		4.948810419	0.00480774	0.024312796
ENSMMUG00000004274	myotubularin related protein 8 [Source:VGNC Symbol;Acc:VGNC:74974]	5.023450446	0.00108143	0.007198548
ENSMMUG00000019593	synaptophysin like 1 [Source:VGNC Symbol;Acc:VGNC:78073]	5.024539616	0.001217391	0.007951854
ENSMMUG00000011026	dynein axonemal heavy chain 5 [Source:VGNC Symbol;Acc:VGNC:71942]	5.037061164	0.001846626	0.011228595
ENSMMUG00000011564	transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]	5.058089025	0.000246404	0.002103252
ENSMMUG00000056168		5.058757718	0.001588614	0.009902433
ENSMMUG00000052569		5.118383144	1.20E-19	1.60E-17
ENSMMUG00000026975	mml-mir-206 [Source:miRBase;Acc:MI0007667]	5.126081077	0.000272524	0.002296282
ENSMMUG00000003780	tight junction protein 2 [Source:NCBI gene;Acc:699586]	5.158699718	0.000868903	0.006010067
ENSMMUG00000060366		5.278194117	0.000426577	0.003310566
ENSMMUG00000058370	taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]	5.301051651	5.06E-10	1.72E-08
ENSMMUG00000057447		5.353408451	0.00067262	0.004843461
ENSMMUG00000053561		5.462965604	0.001764438	0.010819868
ENSMMUG00000006237	carboxypeptidase Z [Source:VGNC Symbol;Acc:VGNC:71478]	5.526324461	0.000938229	0.006419482
ENSMMUG00000001820	regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]	5.676856856	1.48E-05	0.000185079
ENSMMUG00000062496		5.788845438	9.03E-05	0.000890851
ENSMMUG00000059335		5.866276993	2.91E-05	0.000336005
ENSMMUG00000057785		5.940703329	1.40E-05	0.000176044
ENSMMUG00000047465	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]	5.986734932	6.50E-06	9.08E-05
ENSMMUG00000006851	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]	6.107316735	8.37E-38	8.36E-35
ENSMMUG000000031540	purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]	6.400477341	2.13E-06	3.39E-05
ENSMMUG00000004309	APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]	6.437089462	2.14E-06	3.40E-05
ENSMMUG00000001989	RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]	7.469326061	6.60E-09	1.83E-07
ENSMMUG00000027543	Y RNA [Source:RFAM;Acc:RF00019]	7.860154245	0.001416235	0.009021636
ENSMMUG00000049232	AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]	7.870894776	6.29E-09	1.76E-07

Supp. Table 3

A. Up-regulated Gene ID

Survivors - SD1 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]
ENSMMUG00000000480	KIAA1324 like [Source:VGNC Symbol;Acc:VGNC:73882]
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]
ENSMMUG00000000756	transmembrane protein adipocyte associated 1 [Source:VGNC Symbol;Acc:VGNC:79848]
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]
ENSMMUG00000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]
ENSMMUG00000001105	purinergic receptor P2Y12 [Source:VGNC Symbol;Acc:VGNC:75642]
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]
ENSMMUG00000001485	transmembrane protein 150C [Source:NCBI gene;Acc:694136]
ENSMMUG00000001616	peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]
ENSMMUG00000001879	annexin A10 [Source:VGNC Symbol;Acc:VGNC:69945]
ENSMMUG00000001880	DExD/H-box helicase 60 [Source:VGNC Symbol;Acc:VGNC:71711]
ENSMMUG00000001910	heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]
ENSMMUG00000001943	GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]
ENSMMUG00000002063	endoplasmic reticulum aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:72066]
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]
ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]
ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]
ENSMMUG00000002943	glutaminyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:76634]
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]

ENSMMUG0000002950 transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]
ENSMMUG0000002953 MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]
ENSMMUG0000002995 tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]
ENSMMUG0000003023 chaperonin containing TCP1 subunit 8 [Source:VGNC Symbol;Acc:VGNC:70749]
ENSMMUG0000003067 endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]
ENSMMUG0000003074 plexin B1 [Source:VGNC Symbol;Acc:VGNC:76187]
ENSMMUG0000003131 interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]
ENSMMUG0000003167 cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]
ENSMMUG0000003199 CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]
ENSMMUG0000003267 zinc finger protein 362 [Source:NCBI gene;Acc:710013]
ENSMMUG0000003283 extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]
ENSMMUG0000003363 Kruppel like factor 3 [Source:VGNC Symbol;Acc:VGNC:73840]
ENSMMUG0000003457 protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]
ENSMMUG0000003499 solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]
ENSMMUG0000003598 tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]
ENSMMUG0000003697 inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]
ENSMMUG0000003739 mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]
ENSMMUG0000003750 PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]
ENSMMUG0000003827 albumin [Source:VGNC Symbol;Acc:VGNC:69782]
ENSMMUG0000004002 CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]
ENSMMUG0000004103 collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]
ENSMMUG0000004149 eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]
ENSMMUG0000004175 transient receptor potential cation channel subfamily M member 2 [Source:VGNC Symbol;Acc:VGNC:78655]
ENSMMUG0000004257 beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]
ENSMMUG0000004273 dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]
ENSMMUG0000004472 collagen type XVIII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81291]
ENSMMUG0000004477 solute carrier family 19 member 1 [Source:VGNC Symbol;Acc:VGNC:77408]
ENSMMUG0000004576 C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]
ENSMMUG0000004774 maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]
ENSMMUG0000004801 COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]
ENSMMUG0000004847 xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]
ENSMMUG0000004996 monooxygenase DBH like 1 [Source:VGNC Symbol;Acc:VGNC:74800]
ENSMMUG0000005070 ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]
ENSMMUG0000005511 SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]
ENSMMUG0000005745 EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]
ENSMMUG0000005939 serpin family I member 1 [Source:VGNC Symbol;Acc:VGNC:77366]
ENSMMUG0000005986 Kruppel like factor 17 [Source:NCBI gene;Acc:702810]
ENSMMUG0000005992 zinc metalloproteinase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]
ENSMMUG0000006130 prolyl 4-hydroxylase, transmembrane [Source:VGNC Symbol;Acc:VGNC:75693]
ENSMMUG0000006284 adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]
ENSMMUG0000006285 antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]
ENSMMUG0000006291 protocadherin 12 [Source:VGNC Symbol;Acc:VGNC:75776]
ENSMMUG0000006530 ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]
ENSMMUG0000006596 CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]
ENSMMUG0000006766 RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]
ENSMMUG0000006786 protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]
ENSMMUG0000006836 chloride channel accessory 1 [Source:NCBI gene;Acc:574295]
ENSMMUG0000006851 SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]
ENSMMUG0000007195 tRNA splicing endonuclease subunit 2 [Source:VGNC Symbol;Acc:VGNC:82707]
ENSMMUG0000007206 chromosome 3 C7orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70609]
ENSMMUG0000007208 G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]

ENSMMUG0000007279 phosphatidylinositol glycan anchor biosynthesis class C [Source:VGNC Symbol;Acc:VGNC:75986]
ENSMMUG0000007366
ENSMMUG0000007387 G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]
ENSMMUG0000007422 spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]
ENSMMUG0000007528 chordin [Source:VGNC Symbol;Acc:VGNC:71042]
ENSMMUG0000007760 centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]
ENSMMUG0000007773 solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]
ENSMMUG0000007970 CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]
ENSMMUG0000008031 zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]
ENSMMUG0000008070 YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]
ENSMMUG0000008126 lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]
ENSMMUG0000008162 fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]
ENSMMUG0000008184 methyltransferase like 24 [Source:VGNC Symbol;Acc:VGNC:74552]
ENSMMUG0000008189 cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]
ENSMMUG0000008197 netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]
ENSMMUG0000008379 adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]
ENSMMUG0000008383 major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]
ENSMMUG0000008385 NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]
ENSMMUG0000008514 lin-54 DREAM MuvB core complex component [Source:VGNC Symbol;Acc:VGNC:74123]
ENSMMUG0000008518 phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]
ENSMMUG0000008791 CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]
ENSMMUG0000008828 BEN domain containing 5 [Source:NCBI gene;Acc:711150]
ENSMMUG0000009040 cornulin [Source:VGNC Symbol;Acc:VGNC:71397]
ENSMMUG0000009184 myelin protein zero like 1 [Source:NCBI gene;Acc:698437]
ENSMMUG0000009197 myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]
ENSMMUG0000009324 replication factor C subunit 1 [Source:NCBI gene;Acc:698987]
ENSMMUG0000009368 Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]
ENSMMUG0000009437 zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]
ENSMMUG0000009499 mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]
ENSMMUG0000009508 TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]
ENSMMUG0000009564 NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]
ENSMMUG0000001007 CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]
ENSMMUG00000010043 epidermal growth factor [Source:VGNC Symbol;Acc:VGNC:72171]
ENSMMUG00000010058 ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]
ENSMMUG00000010062 shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]
ENSMMUG00000010308 cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]
ENSMMUG00000010309 septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]
ENSMMUG00000010313 kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]
ENSMMUG00000010336 DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]
ENSMMUG00000010466 solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]
ENSMMUG00000010626 CD1c molecule [Source:VGNC Symbol;Acc:VGNC:70756]
ENSMMUG00000010967 tripartite motif family like 2 [Source:VGNC Symbol;Acc:VGNC:79603]
ENSMMUG00000011061 ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]
ENSMMUG00000011206 solute carrier family 9 member B1 [Source:NCBI gene;Acc:710949]
ENSMMUG00000011347 DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]
ENSMMUG00000011472 PWWP domain containing 2A [Source:VGNC Symbol;Acc:VGNC:76564]
ENSMMUG00000011513 versican [Source:VGNC Symbol;Acc:VGNC:79445]
ENSMMUG00000011878 poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]
ENSMMUG00000012068 signal induced proliferation associated 1 like 2 [Source:NCBI gene;Acc:100425123]
ENSMMUG00000012405 transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]
ENSMMUG00000012469 KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]

ENSMMUG00000012529 pleckstrin homology domain containing A8 [Source:VGNC Symbol;Acc:VGNC:81741]
ENSMMUG00000012635 zyxin [Source:VGNC Symbol;Acc:VGNC:78917]
ENSMMUG00000012697 AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]
ENSMMUG00000013044 selectin P [Source:VGNC Symbol;Acc:VGNC:77157]
ENSMMUG00000013098 aldo-keto reductase family 1 member B10 [Source:NCBI gene;Acc:713150]
ENSMMUG00000013283 cadherin related family member 2 [Source:NCBI gene;Acc:697249]
ENSMMUG00000013330 ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]
ENSMMUG00000013385 elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]
ENSMMUG00000014046 SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]
ENSMMUG00000014076 AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]
ENSMMUG00000014138 forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]
ENSMMUG00000014537 bassoon presynaptic cytomatrix protein [Source:VGNC Symbol;Acc:VGNC:70284]
ENSMMUG00000014674 golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]
ENSMMUG00000014699
ENSMMUG00000014720 NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]
ENSMMUG00000014868 OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]
ENSMMUG00000014874 GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]
ENSMMUG00000014876 nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]
ENSMMUG00000015115 terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]
ENSMMUG00000015246 TBC1 domain family member 9 [Source:VGNC Symbol;Acc:VGNC:78193]
ENSMMUG00000015288 adaptor related protein complex 3 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:69867]
ENSMMUG00000015477 lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]
ENSMMUG00000015479 tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]
ENSMMUG00000015555 ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]
ENSMMUG00000015685 zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]
ENSMMUG00000015797 disco interacting protein 2 homolog A [Source:VGNC Symbol;Acc:VGNC:71641]
ENSMMUG00000015922 formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]
ENSMMUG00000015924 BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]
ENSMMUG00000016056 potassium voltage-gated channel subfamily A member 10 [Source:VGNC Symbol;Acc:VGNC:73963]
ENSMMUG00000016099 hedgehog acyltransferase [Source:NCBI gene;Acc:712333]
ENSMMUG00000016191 ATP binding cassette subfamily A member 13 [Source:VGNC Symbol;Acc:VGNC:69402]
ENSMMUG00000016273 maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]
ENSMMUG00000016376 mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]
ENSMMUG00000016579 selectin L [Source:NCBI gene;Acc:701419]
ENSMMUG00000016580 selectin E [Source:VGNC Symbol;Acc:VGNC:77156]
ENSMMUG00000016582 chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]
ENSMMUG00000016922 serine/threonine kinase 32B [Source:VGNC Symbol;Acc:VGNC:78114]
ENSMMUG00000017056 Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]
ENSMMUG00000017189 regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]
ENSMMUG00000017266 UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]
ENSMMUG00000017510 membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]
ENSMMUG00000017701 myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]
ENSMMUG00000017761 zinc finger protein 518B [Source:VGNC Symbol;Acc:VGNC:79802]
ENSMMUG00000018166 MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]
ENSMMUG00000018245 EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]
ENSMMUG00000018246 transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]
ENSMMUG00000018478 interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]
ENSMMUG00000018549 zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]
ENSMMUG00000018619 DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]
ENSMMUG00000018664 collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]
ENSMMUG00000018743 ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]

ENSMMUG00000018790 activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]
ENSMMUG00000018910 histidine rich glycoprotein [Source:VGNC Symbol;Acc:VGNC:73521]
ENSMMUG00000019040 hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]
ENSMMUG00000019085 3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]
ENSMMUG00000019089 centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]
ENSMMUG00000019527 DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]
ENSMMUG00000019528 adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]
ENSMMUG00000019536 potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]
ENSMMUG00000019563 collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]
ENSMMUG00000019764 dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]
ENSMMUG00000019802 family with sequence similarity 133 member B [Source:NCBI gene;Acc:702054]
ENSMMUG00000019820 SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]
ENSMMUG00000019830 Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]
ENSMMUG00000019833 Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]
ENSMMUG00000019835 CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]
ENSMMUG00000019945 fibroblast growth factor receptor 3 [Source:VGNC Symbol;Acc:VGNC:72653]
ENSMMUG00000019991 dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]
ENSMMUG00000020156 CD1d molecule [Source:VGNC Symbol;Acc:VGNC:70757]
ENSMMUG00000020488 receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]
ENSMMUG00000020679 myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]
ENSMMUG00000020683 RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]
ENSMMUG00000020726 dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]
ENSMMUG00000020861 EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]
ENSMMUG00000020916 coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]
ENSMMUG00000020919 shroom family member 3 [Source:VGNC Symbol;Acc:VGNC:77352]
ENSMMUG00000021017 acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]
ENSMMUG00000021031 TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]
ENSMMUG00000021044 afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]
ENSMMUG00000021073 RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]
ENSMMUG00000021075 Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]
ENSMMUG00000021080 basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]
ENSMMUG00000021447 TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]
ENSMMUG00000021449 vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]
ENSMMUG00000021972 diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]
ENSMMUG00000021988 N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]
ENSMMUG00000022003 multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]
ENSMMUG00000022247 osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]
ENSMMUG00000022451 proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]
ENSMMUG00000022633 replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]
ENSMMUG00000022702 phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase [Source:VGNC Symbol;Acc:VGNC:72882]
ENSMMUG00000022728 zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]
ENSMMUG00000022730 cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]
ENSMMUG00000022884 glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]
ENSMMUG00000022920 TATA-box binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:83491]
ENSMMUG00000022921 solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]
ENSMMUG00000023045 zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]
ENSMMUG00000023244 guanylate cyclase 1 soluble subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73327]
ENSMMUG00000023335 ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]
ENSMMUG00000023449 mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]
ENSMMUG00000024537
ENSMMUG00000031279 torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]

ENSMMUG00000031291 regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]
ENSMMUG00000031534 ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]
ENSMMUG00000032180 RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]
ENSMMUG00000032249 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]
ENSMMUG00000035653 small Cajal body-specific RNA 18 [Source:HGNC Symbol;Acc:HGNC:32559]
ENSMMUG00000035943 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000036820 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]
ENSMMUG00000037887 RBMX like 1 [Source:NCBI gene;Acc:100424767]
ENSMMUG00000038349 crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]
ENSMMUG00000038524 olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]
ENSMMUG00000038998 purinergic receptor P2Y13 [Source:VGNC Symbol;Acc:VGNC:83950]
ENSMMUG00000039009
ENSMMUG00000039101 pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]
ENSMMUG00000040393 zinc finger protein 655 [Source:NCBI gene;Acc:718811]
ENSMMUG00000041919 nuclear respiratory factor 1 [Source:VGNC Symbol;Acc:VGNC:81731]
ENSMMUG00000042472 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000042510 coagulation factor V [Source:NCBI gene;Acc:704695]
ENSMMUG00000042951 signal recognition particle 19 [Source:NCBI gene;Acc:693829]
ENSMMUG00000043675 Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]
ENSMMUG00000044257 MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]
ENSMMUG00000044822 coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]
ENSMMUG00000045513
ENSMMUG00000045609 CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]
ENSMMUG00000045959
ENSMMUG00000046550 coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]
ENSMMUG00000046969 Fc receptor like 3 [Source:NCBI gene;Acc:718801]
ENSMMUG00000048283 mml-mir-3145 [Source:miRBase;Acc:MI0020897]
ENSMMUG00000048621 enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]
ENSMMUG00000048824 eva-1 homolog C [Source:NCBI gene;Acc:708681]
ENSMMUG00000049297
ENSMMUG00000049298 cholecystokinin A receptor [Source:NCBI gene;Acc:694742]
ENSMMUG00000049432 olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]
ENSMMUG00000049494
ENSMMUG00000049548
ENSMMUG00000049678
ENSMMUG00000049755 leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]
ENSMMUG00000049935
ENSMMUG00000049998 tachykinin receptor 3 [Source:NCBI gene;Acc:653013]
ENSMMUG00000050132
ENSMMUG00000050339 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050405
ENSMMUG00000050465 ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]
ENSMMUG00000050505 small integral membrane protein 4 [Source:NCBI gene;Acc:696553]
ENSMMUG00000050661
ENSMMUG00000051170
ENSMMUG00000051329
ENSMMUG00000051408 myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]
ENSMMUG00000051619 peptidyl arginine deiminase 3 [Source:NCBI gene;Acc:700560]
ENSMMUG00000051645
ENSMMUG00000051677
ENSMMUG00000051816 keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]

ENSMMUG00000051975
ENSMMUG00000052046
ENSMMUG00000052184 inka box actin regulator 2 [Source:NCBI gene;Acc:704844]
ENSMMUG00000052195
ENSMMUG00000052238
ENSMMUG00000052348
ENSMMUG00000052530
ENSMMUG00000052777
ENSMMUG00000052780
ENSMMUG00000052961
ENSMMUG00000053072
ENSMMUG00000053254 adenylate kinase 4 [Source:NCBI gene;Acc:698560]
ENSMMUG00000053367 secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]
ENSMMUG00000053516
ENSMMUG00000053691 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000053790
ENSMMUG00000054017 potassium voltage-gated channel subfamily A member 2 [Source:NCBI gene;Acc:702126]
ENSMMUG00000054158 acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]
ENSMMUG00000054175
ENSMMUG00000054414
ENSMMUG00000054486 testis expressed 35 [Source:NCBI gene;Acc:717255]
ENSMMUG00000054568
ENSMMUG00000054686
ENSMMUG00000055038
ENSMMUG00000055126
ENSMMUG00000055256 family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]
ENSMMUG00000055322 EPH receptor A1 [Source:NCBI gene;Acc:706295]
ENSMMUG00000055345 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000055441
ENSMMUG00000055589
ENSMMUG00000055710 taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]
ENSMMUG00000056024
ENSMMUG00000056058 C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]
ENSMMUG00000056266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056548 coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]
ENSMMUG00000056593
ENSMMUG00000056707
ENSMMUG00000056796 NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]
ENSMMUG00000056798
ENSMMUG00000056971 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056980
ENSMMUG00000057452
ENSMMUG00000057539
ENSMMUG00000057554 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000057643
ENSMMUG00000057702
ENSMMUG00000057703
ENSMMUG00000058187
ENSMMUG00000058229 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000058423
ENSMMUG00000058432 zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]

ENSMMUG00000058557
ENSMMUG00000058587 family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]
ENSMMUG00000058817
ENSMMUG00000059036
ENSMMUG00000059318 urocortin 2 [Source:NCBI gene;Acc:106996925]
ENSMMUG00000059472 filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]
ENSMMUG00000059491
ENSMMUG00000059671
ENSMMUG00000059777
ENSMMUG00000060184 SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]
ENSMMUG00000060273 mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]
ENSMMUG00000060484 heterogeneous nuclear ribonucleoprotein D [Source:NCBI gene;Acc:694867]
ENSMMUG00000060572
ENSMMUG00000060576
ENSMMUG00000060581
ENSMMUG00000060605
ENSMMUG00000060632
ENSMMUG00000060760
ENSMMUG00000060770
ENSMMUG00000060795
ENSMMUG00000060808
ENSMMUG00000060812 autophagy related 12 [Source:NCBI gene;Acc:696765]
ENSMMUG00000060901
ENSMMUG00000061031
ENSMMUG00000061098
ENSMMUG00000061151
ENSMMUG00000061165
ENSMMUG00000061194
ENSMMUG00000061208 MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]
ENSMMUG00000061250 ABRA C-terminal like [Source:NCBI gene;Acc:708266]
ENSMMUG00000061298
ENSMMUG00000061684
ENSMMUG00000061785
ENSMMUG00000061845
ENSMMUG00000062048
ENSMMUG00000062083
ENSMMUG00000062092
ENSMMUG00000062175 carboxypeptidase B1 [Source:NCBI gene;Acc:712639]
ENSMMUG00000062316 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062326
ENSMMUG00000062394 C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]
ENSMMUG00000062397
ENSMMUG00000062419
ENSMMUG00000062454
ENSMMUG00000062522
ENSMMUG00000062595
ENSMMUG00000062794
ENSMMUG00000062996
ENSMMUG00000063981 nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]
ENSMMUG00000064074
ENSMMUG00000064226

ENSMMUG00000064242
ENSMMUG00000064324
ENSMMUG00000064707
ENSMMUG00000064824 gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]
ENSMMUG00000065005 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065295
ENSMMUG00000000302 WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]
ENSMMUG00000000313 HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]
ENSMMUG00000000375 pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]
ENSMMUG00000000377 TNF receptor superfamily member 1A [Source:VGNC Symbol;Acc:VGNC:78589]
ENSMMUG00000000381 IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]
ENSMMUG00000000582 NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]
ENSMMUG00000000754 Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]
ENSMMUG00000000776 zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]
ENSMMUG00000000803 signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]
ENSMMUG00000000808 melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]
ENSMMUG00000000863 dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]
ENSMMUG00000000869 small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]
ENSMMUG00000000958 aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]
ENSMMUG00000001088 patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]
ENSMMUG00000001151 microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]
ENSMMUG00000001338 antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]
ENSMMUG00000001472 TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]
ENSMMUG00000001532 glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]
ENSMMUG00000001534 calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]
ENSMMUG00000001547 zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]
ENSMMUG00000001568 AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]
ENSMMUG00000001635 zinc finger protein 703 [Source:VGNC Symbol;Acc:VGNC:79552]
ENSMMUG00000001739 ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]
ENSMMUG00000001820 regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]
ENSMMUG00000002260 protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]
ENSMMUG00000002304 keratin 73 [Source:VGNC Symbol;Acc:VGNC:74148]
ENSMMUG00000002345 tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]
ENSMMUG00000002536 calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]
ENSMMUG00000002917 single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]
ENSMMUG00000003217 transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]
ENSMMUG00000003348 neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]
ENSMMUG00000003482 glycine receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:73075]
ENSMMUG00000003484 tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]
ENSMMUG00000003584 mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]
ENSMMUG00000003591 pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]
ENSMMUG00000003684 ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]
ENSMMUG00000003834 basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]
ENSMMUG00000003839 mitogen-activated protein kinase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74613]
ENSMMUG00000004022 zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]
ENSMMUG00000004024 cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]
ENSMMUG00000004028 kelch repeat and BTB domain containing 13 [Source:VGNC Symbol;Acc:VGNC:73953]
ENSMMUG00000004309 APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]
ENSMMUG00000004376 calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]
ENSMMUG00000004470 CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]
ENSMMUG00000004558 OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]

ENSMMUG0000004748 zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]
ENSMMUG0000004797 CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]
ENSMMUG0000004816 membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]
ENSMMUG0000004854 leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]
ENSMMUG0000004910 dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]
ENSMMUG0000005208 RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]
ENSMMUG0000005255 TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]
ENSMMUG0000005270 ryanodine receptor 3 [Source:NCBI gene;Acc:694996]
ENSMMUG0000005293 G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]
ENSMMUG0000005294 casein kinase 2 beta [Source:NCBI gene;Acc:715807]
ENSMMUG0000005297 proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]
ENSMMUG0000005302 BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]
ENSMMUG0000005303 apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]
ENSMMUG0000005356 integrator complex subunit 8 [Source:VGNC Symbol;Acc:VGNC:73657]
ENSMMUG0000005415 olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]
ENSMMUG0000005478 trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]
ENSMMUG0000005504 nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]
ENSMMUG0000005530 synaptotagmin 1 [Source:VGNC Symbol;Acc:VGNC:78074]
ENSMMUG0000005845 REST corepressor 1 [Source:VGNC Symbol;Acc:VGNC:76752]
ENSMMUG0000006180 tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]
ENSMMUG0000006181 WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]
ENSMMUG0000006233 adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]
ENSMMUG0000006293 SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]
ENSMMUG0000006295 matrix metalloproteinase 19 [Source:VGNC Symbol;Acc:VGNC:74896]
ENSMMUG0000006435 HNF1 homeobox A [Source:NCBI gene;Acc:107001057]
ENSMMUG0000006468 FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]
ENSMMUG0000006470 complement C1r subcomponent [Source:NCBI gene;Acc:722133]
ENSMMUG0000006758 cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]
ENSMMUG0000006855 acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]
ENSMMUG0000006893 D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]
ENSMMUG0000006997 thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]
ENSMMUG0000007068 tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]
ENSMMUG0000007140 MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]
ENSMMUG0000007540 Rho related BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76772]
ENSMMUG0000007544 trophinin associated protein [Source:VGNC Symbol;Acc:VGNC:78650]
ENSMMUG0000007546 complement C1q like 4 [Source:VGNC Symbol;Acc:VGNC:70450]
ENSMMUG0000007688 angiomin 1 [Source:VGNC Symbol;Acc:VGNC:69627]
ENSMMUG0000008006 RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]
ENSMMUG0000008007 multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]
ENSMMUG0000008384 solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]
ENSMMUG0000008387 dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]
ENSMMUG0000008529 chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]
ENSMMUG0000008566 zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]
ENSMMUG0000008615 nebulin [Source:NCBI gene;Acc:100430324]
ENSMMUG0000008618 calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]
ENSMMUG0000008623 coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]
ENSMMUG0000008839 DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]
ENSMMUG0000008843 lymphotoxin alpha [Source:VGNC Symbol;Acc:VGNC:74452]
ENSMMUG0000008849 lymphotoxin beta [Source:VGNC Symbol;Acc:VGNC:74454]
ENSMMUG0000008853 leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:HGNC:14189]
ENSMMUG0000008854 natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]

ENSMMUG0000008875 solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]
ENSMMUG0000009182 caspase 8 associated protein 2 [Source:VGNC Symbol;Acc:VGNC:70548]
ENSMMUG0000009312 leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]
ENSMMUG0000009361 fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]
ENSMMUG0000009559 minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]
ENSMMUG0000009577 atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]
ENSMMUG0000009593 WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]
ENSMMUG0000009794 protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]
ENSMMUG0000010137 microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]
ENSMMUG0000010173 presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]
ENSMMUG0000010180 PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]
ENSMMUG0000010357 cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]
ENSMMUG0000010513 ribulose-5-phosphate-3-epimerase [Source:NCBI gene;Acc:711322]
ENSMMUG0000010515 KAT8 regulatory NSL complex subunit 1 like [Source:VGNC Symbol;Acc:VGNC:73913]
ENSMMUG0000010586 mesoderm posterior bHLH transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:74618]
ENSMMUG0000010949 SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]
ENSMMUG0000011155 FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]
ENSMMUG0000011209 BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]
ENSMMUG0000011328 cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]
ENSMMUG0000011440 neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]
ENSMMUG0000011650 dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]
ENSMMUG0000011774 integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]
ENSMMUG0000011789 hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]
ENSMMUG0000011858 bone morphogenetic protein 5 [Source:VGNC Symbol;Acc:VGNC:70264]
ENSMMUG0000012065 tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]
ENSMMUG0000012223 branched chain amino acid transaminase 1 [Source:VGNC Symbol;Acc:VGNC:70236]
ENSMMUG0000012356 serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]
ENSMMUG0000012560 HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]
ENSMMUG0000012842 SET domain containing 1B, histone lysine methyltransferase [Source:NCBI gene;Acc:703717]
ENSMMUG0000013146 claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]
ENSMMUG0000013150 MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]
ENSMMUG0000013160 DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]
ENSMMUG0000013176 NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]
ENSMMUG0000013251 xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]
ENSMMUG0000013387 cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]
ENSMMUG0000013460 RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]
ENSMMUG0000013644 potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]
ENSMMUG0000013651 kinesin family member 6 [Source:VGNC Symbol;Acc:VGNC:73873]
ENSMMUG0000013696 myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]
ENSMMUG0000013766 prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]
ENSMMUG0000013830 glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]
ENSMMUG0000013832 ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]
ENSMMUG0000013871 WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]
ENSMMUG0000013966 legumain [Source:VGNC Symbol;Acc:VGNC:74274]
ENSMMUG0000014149 LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]
ENSMMUG0000014265 TAP binding protein like [Source:NCBI gene;Acc:712626]
ENSMMUG0000014277 ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]
ENSMMUG0000014291 SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]
ENSMMUG0000014397 NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]
ENSMMUG0000014407 magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]
ENSMMUG0000014658 ninein [Source:VGNC Symbol;Acc:VGNC:75177]

ENSMMUG00000014715 fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]
ENSMMUG00000014771 zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]
ENSMMUG00000014981 homeobox containing 1 [Source:VGNC Symbol;Acc:VGNC:73443]
ENSMMUG00000014983 alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]
ENSMMUG00000015108 SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]
ENSMMUG00000015221 huntingtin interacting protein 1 related [Source:VGNC Symbol;Acc:VGNC:73412]
ENSMMUG00000015267 C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]
ENSMMUG00000015394 WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]
ENSMMUG00000015416 bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]
ENSMMUG00000015583 nucleosome assembly protein 1 like 1 [Source:NCBI gene;Acc:719047]
ENSMMUG00000015686 abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]
ENSMMUG00000015693 lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]
ENSMMUG00000015861 cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]
ENSMMUG00000015865 arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]
ENSMMUG00000015866 vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]
ENSMMUG00000015868 retinol dehydrogenase 11 [Source:NCBI gene;Acc:711195]
ENSMMUG00000015871 zinc finger FYVE-type containing 26 [Source:VGNC Symbol;Acc:VGNC:79283]
ENSMMUG00000015926 2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]
ENSMMUG00000015930 ADP ribosylation factor like GTPase 6 interacting protein 4 [Source:VGNC Symbol;Acc:VGNC:69860]
ENSMMUG00000015931 phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]
ENSMMUG00000016069 cubilin [Source:VGNC Symbol;Acc:VGNC:82132]
ENSMMUG00000016104 chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]
ENSMMUG00000016237 taxilin gamma [Source:NCBI gene;Acc:713769]
ENSMMUG00000016255 telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]
ENSMMUG00000016454 4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]
ENSMMUG00000016465 histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]
ENSMMUG00000016655 R3H domain and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:76551]
ENSMMUG00000016772 solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]
ENSMMUG00000016929 proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]
ENSMMUG00000017102 coiled-coil domain containing 62 [Source:NCBI gene;Acc:707179]
ENSMMUG00000017124 spliceosome associated factor 3, U4/U6 recycling protein [Source:VGNC Symbol;Acc:VGNC:77029]
ENSMMUG00000017129 solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]
ENSMMUG00000017260 G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]
ENSMMUG00000017261 galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]
ENSMMUG00000017619 lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]
ENSMMUG00000017627 B-TFIIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]
ENSMMUG00000017660
ENSMMUG00000017864 oxysterol binding protein like 8 [Source:VGNC Symbol;Acc:VGNC:75630]
ENSMMUG00000018144 C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]
ENSMMUG00000018237 plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]
ENSMMUG00000018239 centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]
ENSMMUG00000018274 FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]
ENSMMUG00000018298 killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]
ENSMMUG00000018345 phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]
ENSMMUG00000018485 methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]
ENSMMUG00000018492 TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]
ENSMMUG00000018787 PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]
ENSMMUG00000019126 purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]
ENSMMUG00000019172 spectrin beta, erythrocytic [Source:VGNC Symbol;Acc:VGNC:77870]
ENSMMUG00000019246 regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]
ENSMMUG00000019304 indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]

ENSMMUG00000019363 synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]
ENSMMUG00000019438 utrophin [Source:VGNC Symbol;Acc:VGNC:78749]
ENSMMUG00000019546 regucalcin [Source:VGNC Symbol;Acc:VGNC:76912]
ENSMMUG00000019690 SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]
ENSMMUG00000019703 RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]
ENSMMUG00000020185 voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]
ENSMMUG00000020186 solute carrier family 20 member 2 [Source:VGNC Symbol;Acc:VGNC:77416]
ENSMMUG00000020346 carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]
ENSMMUG00000020515 adhesion G protein-coupled receptor G2 [Source:VGNC Symbol;Acc:VGNC:69802]
ENSMMUG00000020534 p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]
ENSMMUG00000020603 pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]
ENSMMUG00000020604 HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]
ENSMMUG00000020629 SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]
ENSMMUG00000021418 ATPase H+ transporting V1 subunit D [Source:VGNC Symbol;Acc:VGNC:70060]
ENSMMUG00000021564 lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]
ENSMMUG00000021610 regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]
ENSMMUG00000021634 TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]
ENSMMUG00000021655 histone deacetylase 7 [Source:NCBI gene;Acc:718225]
ENSMMUG00000021661 leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]
ENSMMUG00000021664 lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]
ENSMMUG00000021736 single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]
ENSMMUG00000021877 protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]
ENSMMUG00000022109 CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]
ENSMMUG00000022313 activating transcription factor 7 [Source:NCBI gene;Acc:700403]
ENSMMUG00000022406 ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]
ENSMMUG00000022407 serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]
ENSMMUG00000022409 solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]
ENSMMUG00000022481 cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]
ENSMMUG00000022893 von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]
ENSMMUG00000022933 DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]
ENSMMUG00000023016 jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]
ENSMMUG00000023032 intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]
ENSMMUG00000023048 cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]
ENSMMUG00000023060 A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]
ENSMMUG00000023282 aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]
ENSMMUG00000023370 DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]
ENSMMUG00000023719 thymopoietin [Source:VGNC Symbol;Acc:VGNC:78574]
ENSMMUG00000023761 ectonucleoside triphosphate diphosphohydrolase 7 [Source:VGNC Symbol;Acc:VGNC:72071]
ENSMMUG00000023816 semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]
ENSMMUG00000024234 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000025918 small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]
ENSMMUG00000026243 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000026474 Small nucleolar RNA SNORD83 [Source:RFAM;Acc:RF00137]
ENSMMUG00000026584 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000028000 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000029455 olfactory receptor 4Q2 [Source:NCBI gene;Acc:114679271]
ENSMMUG00000029507 adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]
ENSMMUG00000029638 chromosome 7 C15orf65 homolog [Source:VGNC Symbol;Acc:VGNC:70689]
ENSMMUG00000029883 olfactory receptor, family 2, subfamily J, member 3 [Source:NCBI gene;Acc:708943]
ENSMMUG00000030532 solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]
ENSMMUG00000032429 forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]

ENSMMUG00000035748 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037243 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037449 CUGBP Elav-like family member 2 [Source:NCBI gene;Acc:714291]
ENSMMUG00000037641 chondrosarcoma-associated gene 2/3 protein [Source:NCBI gene;Acc:106992305]
ENSMMUG00000038067
ENSMMUG00000038256 aquaporin 2 [Source:NCBI gene;Acc:711719]
ENSMMUG00000039292
ENSMMUG00000039520 chromosome 11 C12orf43 homolog [Source:NCBI gene;Acc:698821]
ENSMMUG00000040274 MAGE family member A4 [Source:NCBI gene;Acc:710825]
ENSMMUG00000041376 G antigen 10 [Source:NCBI gene;Acc:693330]
ENSMMUG00000041729
ENSMMUG00000042378 pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]
ENSMMUG00000045093 cyclin B3 [Source:NCBI gene;Acc:694534]
ENSMMUG00000045654 tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]
ENSMMUG00000046186 stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]
ENSMMUG00000046478 WASH complex subunit 3 [Source:NCBI gene;Acc:697824]
ENSMMUG00000046774 RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]
ENSMMUG00000047465 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048066 trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]
ENSMMUG00000048076 TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650]
ENSMMUG00000048744
ENSMMUG00000049234 ninjurin 2 [Source:NCBI gene;Acc:706368]
ENSMMUG00000049265 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049267
ENSMMUG00000049455 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049508
ENSMMUG00000049514 solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]
ENSMMUG00000049543
ENSMMUG00000049735 allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]
ENSMMUG00000049862
ENSMMUG00000049894
ENSMMUG00000050047 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050549 lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]
ENSMMUG00000050608
ENSMMUG00000050696 taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]
ENSMMUG00000050868
ENSMMUG00000051037
ENSMMUG00000051363
ENSMMUG00000051450 phospholipase A2 receptor 1 [Source:NCBI gene;Acc:700191]
ENSMMUG00000051807
ENSMMUG00000051972 zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]
ENSMMUG00000052073
ENSMMUG00000052252 protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]
ENSMMUG00000052453 serpin family A member 11 [Source:NCBI gene;Acc:701483]
ENSMMUG00000052637 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052828
ENSMMUG00000052854 mucin like 1 [Source:NCBI gene;Acc:100423942]
ENSMMUG00000052891
ENSMMUG00000052954 Wnt family member 6 [Source:NCBI gene;Acc:700573]
ENSMMUG00000053013
ENSMMUG00000053106

ENSMMUG00000053324 lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]
ENSMMUG00000053333 acetylserotonin O-methyltransferase like [Source:NCBI gene;Acc:106995142]
ENSMMUG00000053376
ENSMMUG00000053406
ENSMMUG00000053460
ENSMMUG00000053481
ENSMMUG00000053489
ENSMMUG00000053722
ENSMMUG00000053781 Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]
ENSMMUG00000053984
ENSMMUG00000053989
ENSMMUG00000054159 lymphocyte antigen 6 family member G5C [Source:VGNC Symbol;Acc:VGNC:83431]
ENSMMUG00000054184 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054377
ENSMMUG00000054621
ENSMMUG00000054755 transmembrane protein 65 [Source:NCBI gene;Acc:705727]
ENSMMUG00000054768
ENSMMUG00000054816 interleukin 1 receptor associated kinase 3 [Source:NCBI gene;Acc:717845]
ENSMMUG00000054904 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054942
ENSMMUG00000054960
ENSMMUG00000055012
ENSMMUG00000055018 sushi domain containing 6 [Source:NCBI gene;Acc:712719]
ENSMMUG00000055121 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055209
ENSMMUG00000055239
ENSMMUG00000055906 angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]
ENSMMUG00000055914
ENSMMUG00000056063
ENSMMUG00000056151
ENSMMUG00000056376
ENSMMUG00000056522
ENSMMUG00000056605 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056729 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000056741 ovostatin-like [Source:NCBI gene;Acc:722294]
ENSMMUG00000056749 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056906
ENSMMUG00000056992 zinc finger AN1-type containing 6 [Source:NCBI gene;Acc:717543]
ENSMMUG00000057134 keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]
ENSMMUG00000057196 pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]
ENSMMUG00000057219 tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]
ENSMMUG00000057283
ENSMMUG00000057473
ENSMMUG00000057570
ENSMMUG00000057640 plakophilin-3-like [Source:NCBI gene;Acc:114669833]
ENSMMUG00000057785
ENSMMUG00000057791
ENSMMUG00000057909
ENSMMUG00000058002 zinc finger protein 669-like [Source:NCBI gene;Acc:696282]
ENSMMUG00000058013 melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]
ENSMMUG00000058106 otoconin 90 [Source:NCBI gene;Acc:100429699]

ENSMMUG00000058162
ENSMMUG00000058176 b-defensin2-like [Source:NCBI gene;Acc:100169969]
ENSMMUG00000058534
ENSMMUG00000058536
ENSMMUG00000058700 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000058797
ENSMMUG00000058800
ENSMMUG00000059134
ENSMMUG00000059181
ENSMMUG00000059182
ENSMMUG00000059196
ENSMMUG00000059335
ENSMMUG00000059442
ENSMMUG00000059504
ENSMMUG00000059589
ENSMMUG00000059608 fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]
ENSMMUG00000059782
ENSMMUG00000060063
ENSMMUG00000060675
ENSMMUG00000060754 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061021
ENSMMUG00000061079 golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]
ENSMMUG00000061123 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061244
ENSMMUG00000061342
ENSMMUG00000061526 synaptopodin 2 like [Source:NCBI gene;Acc:714736]
ENSMMUG00000061576
ENSMMUG00000061606 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061923
ENSMMUG00000061935
ENSMMUG00000062055 glyoxalase I [Source:NCBI gene;Acc:719518]
ENSMMUG00000062063 melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]
ENSMMUG00000062139
ENSMMUG00000062217 HD domain containing 3 [Source:NCBI gene;Acc:715621]
ENSMMUG00000062254
ENSMMUG00000062628
ENSMMUG00000062863
ENSMMUG00000063112
ENSMMUG00000063198
ENSMMUG00000063322
ENSMMUG00000063346
ENSMMUG00000063495
ENSMMUG00000063525
ENSMMUG00000063694 cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]
ENSMMUG00000063759 transmembrane protein 185B [Source:NCBI gene;Acc:695744]
ENSMMUG00000063868 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063898 apolipoprotein F [Source:NCBI gene;Acc:712761]
ENSMMUG00000063913 endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]
ENSMMUG00000064321
ENSMMUG00000064341 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000064557

ENSMMUG00000064694 AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]
ENSMMUG00000064730
ENSMMUG00000065247 opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]
ENSMMUG00000000187 UV radiation resistance associated [Source:VGNC Symbol;Acc:VGNC:78751]
ENSMMUG00000000293 catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]
ENSMMUG00000000327 fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]
ENSMMUG00000000396 intraflagellar transport 52 [Source:NCBI gene;Acc:694933]
ENSMMUG00000000740 spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]
ENSMMUG00000000757 ring finger protein 114 [Source:VGNC Symbol;Acc:VGNC:76725]
ENSMMUG00000000874 carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]
ENSMMUG00000001036 coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]
ENSMMUG00000001058 tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]
ENSMMUG00000001387 p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]
ENSMMUG00000001409 coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]
ENSMMUG00000001536 glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]
ENSMMUG00000001745 oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]
ENSMMUG00000001748 spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]
ENSMMUG00000001777 testis expressed metallothionein like protein [Source:VGNC Symbol;Acc:VGNC:79965]
ENSMMUG00000001845 DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]
ENSMMUG00000002124 beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]
ENSMMUG00000002267 laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]
ENSMMUG00000002324
ENSMMUG00000002376 scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]
ENSMMUG00000002377 Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]
ENSMMUG00000002382 serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]
ENSMMUG00000002452 solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]
ENSMMUG00000002515 protein phosphatase 2 phosphatase activator [Source:VGNC Symbol;Acc:VGNC:76583]
ENSMMUG00000002566 selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]
ENSMMUG00000002715 solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]
ENSMMUG00000002810 TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]
ENSMMUG00000002923 colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]
ENSMMUG00000002926 mediator complex subunit 24 [Source:NCBI gene;Acc:699536]
ENSMMUG00000003005 MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]
ENSMMUG00000003006 serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]
ENSMMUG00000003007 caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]
ENSMMUG00000003098 peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]
ENSMMUG00000003105 inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]
ENSMMUG00000003106 SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]
ENSMMUG00000003139 Rho guanine nucleotide exchange factor 17 [Source:VGNC Symbol;Acc:VGNC:69880]
ENSMMUG00000003140 RELT TNF receptor [Source:VGNC Symbol;Acc:VGNC:76728]
ENSMMUG00000003142 family with sequence similarity 168 member A [Source:VGNC Symbol;Acc:VGNC:72398]
ENSMMUG00000003355 lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]
ENSMMUG00000003356 tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]
ENSMMUG00000003400 baculoviral IAP repeat containing 2 [Source:NCBI gene;Acc:702592]
ENSMMUG00000003421 ankyrin repeat domain 40 [Source:VGNC Symbol;Acc:VGNC:69725]
ENSMMUG00000003436 tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]
ENSMMUG00000003437 signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]
ENSMMUG00000003585 ALG5 dolichyl-phosphate beta-glucosyltransferase [Source:VGNC Symbol;Acc:VGNC:69647]
ENSMMUG00000003797 ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]
ENSMMUG00000003874 interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]
ENSMMUG00000003950 nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]

ENSMMUG0000003955 post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]
ENSMMUG0000003976 glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]
ENSMMUG0000004330 peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]
ENSMMUG0000004332 tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]
ENSMMUG0000004523 DNA polymerase delta 4, accessory subunit [Source:NCBI gene;Acc:712632]
ENSMMUG0000004587 gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]
ENSMMUG0000004761 Cbl proto-oncogene [Source:VGNC Symbol;Acc:VGNC:70554]
ENSMMUG0000004765 Sp2 transcription factor [Source:VGNC Symbol;Acc:VGNC:77845]
ENSMMUG0000004794 DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]
ENSMMUG0000004820 pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]
ENSMMUG0000004868 dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]
ENSMMUG0000005423 caseinolytic mitochondrial matrix peptidase chaperone subunit B [Source:VGNC Symbol;Acc:VGNC:71375]
ENSMMUG0000005432 clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]
ENSMMUG0000005480 carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]
ENSMMUG0000005482 lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]
ENSMMUG0000005483 ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]
ENSMMUG0000005486 protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]
ENSMMUG0000005488 coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]
ENSMMUG0000005595 RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]
ENSMMUG0000005666 phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]
ENSMMUG0000005685 pseudouridine synthase 10 [Source:VGNC Symbol;Acc:VGNC:76547]
ENSMMUG0000005769 EF-hand calcium binding domain 6 [Source:VGNC Symbol;Acc:VGNC:72092]
ENSMMUG0000005776 atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]
ENSMMUG0000005793 ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]
ENSMMUG0000005982 coiled-coil domain containing 84 [Source:NCBI gene;Acc:707400]
ENSMMUG0000005989 GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]
ENSMMUG0000005991 TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]
ENSMMUG0000005997 cell division cycle 14B [Source:NCBI gene;Acc:710300]
ENSMMUG0000006066 phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]
ENSMMUG0000006079 leucine rich repeat containing 19 [Source:VGNC Symbol;Acc:VGNC:74337]
ENSMMUG0000006086 pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]
ENSMMUG0000006091 contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]
ENSMMUG0000006093 enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]
ENSMMUG0000006101 myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]
ENSMMUG0000006375 coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]
ENSMMUG0000006405 secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]
ENSMMUG0000006568 basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]
ENSMMUG0000006689 nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]
ENSMMUG0000006692 signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]
ENSMMUG0000006738 L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]
ENSMMUG0000006853 crystallin beta B2 [Source:NCBI gene;Acc:100144420]
ENSMMUG0000006929 ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]
ENSMMUG0000006931 kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]
ENSMMUG0000007200 NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]
ENSMMUG0000007201 PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]
ENSMMUG0000007379 phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]
ENSMMUG0000007402 potassium two pore domain channel subfamily K member 7 [Source:VGNC Symbol;Acc:VGNC:73996]
ENSMMUG0000007423 transcription factor Dp-1 [Source:NCBI gene;Acc:715345]
ENSMMUG0000007610 ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]
ENSMMUG0000007925 serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]
ENSMMUG0000008077 dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]

ENSMMUG0000008080 ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]
ENSMMUG0000008081 ATP binding cassette subfamily G member 8 [Source:VGNC Symbol;Acc:VGNC:69392]
ENSMMUG0000008090 ribosomal protein L27 [Source:NCBI gene;Acc:712352]
ENSMMUG0000008160 neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]
ENSMMUG0000008183 retinoid X receptor alpha [Source:VGNC Symbol;Acc:VGNC:76951]
ENSMMUG0000008195 TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]
ENSMMUG0000008200 Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]
ENSMMUG0000008651 FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]
ENSMMUG0000008652 coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]
ENSMMUG0000008758 zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]
ENSMMUG0000008778 parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]
ENSMMUG0000008923 Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]
ENSMMUG0000009176 calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]
ENSMMUG0000009318 BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]
ENSMMUG0000009372 tetratricopeptide repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:79565]
ENSMMUG0000009884 hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]
ENSMMUG0000009886 Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]
ENSMMUG0000009887 MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]
ENSMMUG0000009889 PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]
ENSMMUG0000009890 FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]
ENSMMUG0000009957 spermatogenesis associated 25 [Source:VGNC Symbol;Acc:VGNC:77928]
ENSMMUG0000009960 cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]
ENSMMUG0000009995 arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]
ENSMMUG00000010028 leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]
ENSMMUG00000010363 ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]
ENSMMUG00000010451 inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]
ENSMMUG00000010536 discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]
ENSMMUG00000010678 oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]
ENSMMUG00000010869 nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]
ENSMMUG00000011411 sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]
ENSMMUG00000011527 TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]
ENSMMUG00000011528 F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]
ENSMMUG00000011767 carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]
ENSMMUG00000011817 aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]
ENSMMUG00000011866 phosphatidylinositol glycan anchor biosynthesis class O [Source:VGNC Symbol;Acc:VGNC:75851]
ENSMMUG00000012147 collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]
ENSMMUG00000012228 ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]
ENSMMUG00000012316 CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]
ENSMMUG00000012472 phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]
ENSMMUG00000012523 flotillin 2 [Source:NCBI gene;Acc:114669752]
ENSMMUG00000012668 centriolin [Source:VGNC Symbol;Acc:VGNC:71204]
ENSMMUG00000012941 nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]
ENSMMUG00000012944 vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]
ENSMMUG00000013048 junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]
ENSMMUG00000013099 pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]
ENSMMUG00000013107 tripartite motif containing 32 [Source:VGNC Symbol;Acc:VGNC:79032]
ENSMMUG00000013397 peroxiredoxin 5 [Source:NCBI gene;Acc:719764]
ENSMMUG00000013713 beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]
ENSMMUG00000013798 fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]
ENSMMUG00000013901 mitogen-activated protein kinase kinase kinase 3 [Source:VGNC Symbol;Acc:VGNC:81466]
ENSMMUG00000013944 regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]

ENSMMUG00000014010 RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]
ENSMMUG00000014123 alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]
ENSMMUG00000014237 lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]
ENSMMUG00000014309 zinc finger protein 280A [Source:VGNC Symbol;Acc:VGNC:79152]
ENSMMUG00000014408 GIT ArfGAP 1 [Source:VGNC Symbol;Acc:VGNC:73053]
ENSMMUG00000014409 ankyrin repeat domain 13B [Source:VGNC Symbol;Acc:VGNC:69708]
ENSMMUG00000014411 coronin 6 [Source:NCBI gene;Acc:711818]
ENSMMUG00000014413 slingshot protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:78018]
ENSMMUG00000014425 protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]
ENSMMUG00000014530 pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]
ENSMMUG00000014615 lactate dehydrogenase C [Source:VGNC Symbol;Acc:VGNC:74247]
ENSMMUG00000014864 VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]
ENSMMUG00000014866 hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]
ENSMMUG00000014872 dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]
ENSMMUG00000014880 sortilin related receptor 1 [Source:NCBI gene;Acc:713011]
ENSMMUG00000014986 testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]
ENSMMUG00000015054 ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:69844]
ENSMMUG00000015160 Rap guanine nucleotide exchange factor like 1 [Source:VGNC Symbol;Acc:VGNC:76501]
ENSMMUG00000015606 Spi-1 proto-oncogene [Source:NCBI gene;Acc:712010]
ENSMMUG00000015611 proteasome 26S subunit, ATPase 3 [Source:NCBI gene;Acc:713356]
ENSMMUG00000015925 G protein-coupled receptor kinase 2 [Source:VGNC Symbol;Acc:VGNC:73253]
ENSMMUG00000016001 vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]
ENSMMUG00000016323 Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]
ENSMMUG00000016327 coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]
ENSMMUG00000016401 SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]
ENSMMUG00000016404 chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]
ENSMMUG00000016434 NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]
ENSMMUG00000016438 protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]
ENSMMUG00000016442 glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]
ENSMMUG00000016448 DLG associated protein 4 [Source:NCBI gene;Acc:702928]
ENSMMUG00000016549 matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]
ENSMMUG00000016678 Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]
ENSMMUG00000016737 contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]
ENSMMUG00000016796 reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]
ENSMMUG00000016797 tubulin gamma 1 [Source:NCBI gene;Acc:710756]
ENSMMUG00000016827 UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]
ENSMMUG00000016890 solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]
ENSMMUG00000016894 ribosomal protein S25 [Source:NCBI gene;Acc:702593]
ENSMMUG00000016946 trafficking protein particle complex 4 [Source:VGNC Symbol;Acc:VGNC:79211]
ENSMMUG00000017224 catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]
ENSMMUG00000017256 calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]
ENSMMUG00000017280 TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]
ENSMMUG00000017287 PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]
ENSMMUG00000017561 solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]
ENSMMUG00000017810 structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]
ENSMMUG00000018029 amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]
ENSMMUG00000018034 suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]
ENSMMUG00000018137 MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]
ENSMMUG00000018396 HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]
ENSMMUG00000018471 serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]
ENSMMUG00000018719 nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]

ENSMMUG00000018720 cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]
ENSMMUG00000018798 stromal cell derived factor 2 like 1 [Source:NCBI gene;Acc:697928]
ENSMMUG00000019070 focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]
ENSMMUG00000019354 actin like 7B [Source:VGNC Symbol;Acc:VGNC:69421]
ENSMMUG00000019667 TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]
ENSMMUG00000019837 ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]
ENSMMUG00000019839 lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]
ENSMMUG00000019925 DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]
ENSMMUG00000019988 homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]
ENSMMUG00000020009 receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]
ENSMMUG00000020020 Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]
ENSMMUG00000020172 KIAA1755 [Source:VGNC Symbol;Acc:VGNC:73942]
ENSMMUG00000020190 valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]
ENSMMUG00000020226 WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]
ENSMMUG00000020489 HscB mitochondrial iron-sulfur cluster cochaperone [Source:VGNC Symbol;Acc:VGNC:73454]
ENSMMUG00000020744 metastasis associated 1 family member 3 [Source:VGNC Symbol;Acc:VGNC:74814]
ENSMMUG00000020799 BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]
ENSMMUG00000020854 C-type lectin domain family 4 member F [Source:VGNC Symbol;Acc:VGNC:71349]
ENSMMUG00000020868 homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]
ENSMMUG00000020956 parvin alpha [Source:VGNC Symbol;Acc:VGNC:75605]
ENSMMUG00000021039 X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]
ENSMMUG00000021408 family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]
ENSMMUG00000021428 lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]
ENSMMUG00000021436 latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]
ENSMMUG00000021476 BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]
ENSMMUG00000021477 ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]
ENSMMUG00000021486 secernin 2 [Source:NCBI gene;Acc:694571]
ENSMMUG00000021553 dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]
ENSMMUG00000021554 PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]
ENSMMUG00000021938 nudE neurodevelopment protein 1 like 1 [Source:VGNC Symbol;Acc:VGNC:74982]
ENSMMUG00000022031 DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]
ENSMMUG00000022282 collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]
ENSMMUG00000022345
ENSMMUG00000022401 EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]
ENSMMUG00000022613 reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]
ENSMMUG00000022741 WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]
ENSMMUG00000022785 solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]
ENSMMUG00000022818 inhibitor of growth family member 1 [Source:VGNC Symbol;Acc:VGNC:73742]
ENSMMUG00000022996 HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]
ENSMMUG00000023263 mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]
ENSMMUG00000023300 FERM domain containing 8 [Source:NCBI gene;Acc:716379]
ENSMMUG00000023477
ENSMMUG00000023479 latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]
ENSMMUG00000025050 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000026950 microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]
ENSMMUG00000027986 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000028471 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]
ENSMMUG00000030279 A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]
ENSMMUG00000030389
ENSMMUG00000030891 hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]
ENSMMUG00000030964 RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]

ENSMMUG00000031024 lactate dehydrogenase A [Source:NCBI gene;Acc:694309]
ENSMMUG00000031100 membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]
ENSMMUG00000031163 membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]
ENSMMUG00000031166 McKusick-Kaufman syndrome [Source:NCBI gene;Acc:718547]
ENSMMUG00000031391 RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]
ENSMMUG00000032030 dolichyldiphosphatase 1 [Source:VGNC Symbol;Acc:VGNC:71947]
ENSMMUG00000032142 complement C8 gamma chain [Source:VGNC Symbol;Acc:VGNC:70481]
ENSMMUG00000033550
ENSMMUG00000035888 small nucleolar RNA, C/D box 121A [Source:HGNC Symbol;Acc:HGNC:33560]
ENSMMUG00000036223
ENSMMUG00000037426 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]
ENSMMUG00000038363 adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]
ENSMMUG00000038858
ENSMMUG00000038944
ENSMMUG00000039205
ENSMMUG00000039266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000039397 tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]
ENSMMUG00000040741 thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]
ENSMMUG00000041101 protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]
ENSMMUG00000042598 transmembrane protein 18 [Source:NCBI gene;Acc:721515]
ENSMMUG00000043396 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000044048 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000044496 H2A histone family, member X [Source:NCBI gene;Acc:703073]
ENSMMUG00000045187 CAS3 exon junction complex subunit [Source:NCBI gene;Acc:699712]
ENSMMUG00000045203
ENSMMUG00000046169
ENSMMUG00000047219
ENSMMUG00000047452
ENSMMUG00000048204 ephrin B3 [Source:NCBI gene;Acc:716257]
ENSMMUG00000048375 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048395 chromobox 6 [Source:NCBI gene;Acc:702133]
ENSMMUG00000048463 apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]
ENSMMUG00000048566 MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]
ENSMMUG00000049130
ENSMMUG00000049305 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049355 ALX homeobox 4 [Source:NCBI gene;Acc:715652]
ENSMMUG00000049479
ENSMMUG00000049542
ENSMMUG00000049649 proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]
ENSMMUG00000049802 olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]
ENSMMUG00000049850 proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]
ENSMMUG00000050028
ENSMMUG00000050119
ENSMMUG00000050543
ENSMMUG00000050686
ENSMMUG00000050793 N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]
ENSMMUG00000050822 carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]
ENSMMUG00000050844 BTB domain containing 18 [Source:NCBI gene;Acc:703264]
ENSMMUG00000051201 zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]
ENSMMUG00000051420 homeobox B5 [Source:NCBI gene;Acc:696732]
ENSMMUG00000051925

ENSMMUG00000052168
ENSMMUG00000052505 homeobox B9 [Source:NCBI gene;Acc:106994009]
ENSMMUG00000052569
ENSMMUG00000052785 extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]
ENSMMUG00000053200 ubiquitin conjugating enzyme E2 R2 [Source:NCBI gene;Acc:701507]
ENSMMUG00000053378
ENSMMUG00000053625 sterol-C5-desaturase [Source:NCBI gene;Acc:706827]
ENSMMUG00000054211
ENSMMUG00000054398
ENSMMUG00000054784
ENSMMUG00000055048
ENSMMUG00000055122
ENSMMUG00000055290 netrin 1 [Source:NCBI gene;Acc:717645]
ENSMMUG00000055324 homeobox B7 [Source:NCBI gene;Acc:697089]
ENSMMUG00000055352
ENSMMUG00000055811
ENSMMUG00000055820
ENSMMUG00000055897
ENSMMUG00000055963
ENSMMUG00000056008
ENSMMUG00000056009
ENSMMUG00000056093 shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]
ENSMMUG00000056184
ENSMMUG00000056186
ENSMMUG00000056248
ENSMMUG00000056342 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056343
ENSMMUG00000056381 forkhead box R1 [Source:NCBI gene;Acc:707285]
ENSMMUG00000056629 nucleolar protein 12 [Source:NCBI gene;Acc:698318]
ENSMMUG00000056646
ENSMMUG00000056840
ENSMMUG00000056905
ENSMMUG00000056945
ENSMMUG00000056950
ENSMMUG00000057001 homeobox B2 [Source:NCBI gene;Acc:106994010]
ENSMMUG00000057095
ENSMMUG00000057231 T-box transcription factor 21 [Source:NCBI gene;Acc:694044]
ENSMMUG00000057331 RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]
ENSMMUG00000057499
ENSMMUG00000057632
ENSMMUG00000057687
ENSMMUG00000057934
ENSMMUG00000058237
ENSMMUG00000058326 neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]
ENSMMUG00000058566
ENSMMUG00000058758
ENSMMUG00000058885 formin binding protein 4 [Source:NCBI gene;Acc:712633]
ENSMMUG00000058916
ENSMMUG00000059188
ENSMMUG00000059292
ENSMMUG00000059299 membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]

ENSMMUG00000059302 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059341 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059436 interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]
ENSMMUG00000059700
ENSMMUG00000059778
ENSMMUG00000059897 myosin light chain 9 [Source:NCBI gene;Acc:709784]
ENSMMUG00000060261
ENSMMUG00000060435 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060502
ENSMMUG00000060517
ENSMMUG00000060533
ENSMMUG00000060712
ENSMMUG00000060761
ENSMMUG00000060879 homeobox B13 [Source:NCBI gene;Acc:697572]
ENSMMUG00000061225
ENSMMUG00000061335
ENSMMUG00000061424 ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]
ENSMMUG00000061533
ENSMMUG00000061603
ENSMMUG00000061698
ENSMMUG00000061896
ENSMMUG00000061951
ENSMMUG00000062091
ENSMMUG00000062208 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062283 homeobox B6 [Source:NCBI gene;Acc:106994013]
ENSMMUG00000062474 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062755
ENSMMUG00000062781 chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]
ENSMMUG00000063238
ENSMMUG00000063383
ENSMMUG00000063622 mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]
ENSMMUG00000063639
ENSMMUG00000063735
ENSMMUG00000063779
ENSMMUG00000063820 olfactory receptor, family 52, subfamily M, member 1 [Source:NCBI gene;Acc:717723]
ENSMMUG00000063914
ENSMMUG00000063947 oxoeicosanoid receptor 1 [Source:NCBI gene;Acc:713039]
ENSMMUG00000064005
ENSMMUG00000064026 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064122
ENSMMUG00000064229
ENSMMUG00000064391
ENSMMUG00000064401
ENSMMUG00000064650 SPEM family member 3 [Source:NCBI gene;Acc:106993878]
ENSMMUG00000064892
ENSMMUG00000064920
ENSMMUG00000065113
ENSMMUG00000065129
ENSMMUG00000065208
ENSMMUG00000065269 Rho family GTPase 2 [Source:NCBI gene;Acc:712559]

ENSMMUG0000000198 collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]
ENSMMUG00000000566
ENSMMUG00000000700 CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]
ENSMMUG00000001220 adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]
ENSMMUG00000001269 chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]
ENSMMUG00000001427 myosin heavy chain 14 [Source:VGNC Symbol;Acc:VGNC:75006]
ENSMMUG00000001538 GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]
ENSMMUG00000001715 zinc finger protein 627 [Source:VGNC Symbol;Acc:VGNC:79856]
ENSMMUG00000001944 chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]
ENSMMUG00000002033 serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]
ENSMMUG00000002278 AT-rich interaction domain 3A [Source:VGNC Symbol;Acc:VGNC:69930]
ENSMMUG00000002381 lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]
ENSMMUG00000002384 IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]
ENSMMUG00000002822 unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]
ENSMMUG00000002959 helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]
ENSMMUG00000003075 coiled-coil domain containing 9 [Source:VGNC Symbol;Acc:VGNC:70851]
ENSMMUG00000003298 ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]
ENSMMUG00000003303 Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]
ENSMMUG00000003534 ring finger protein 157 [Source:VGNC Symbol;Acc:VGNC:76860]
ENSMMUG00000003539 glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]
ENSMMUG00000003819 nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]
ENSMMUG00000003926 BCL2 like 12 [Source:NCBI gene;Acc:718981]
ENSMMUG00000004283 calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]
ENSMMUG00000004498 protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]
ENSMMUG00000004843 sodium voltage-gated channel beta subunit 1 [Source:VGNC Symbol;Acc:VGNC:76983]
ENSMMUG00000005086 homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]
ENSMMUG00000005236 zinc finger protein 709 [Source:NCBI gene;Acc:717515]
ENSMMUG00000005548 N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]
ENSMMUG00000005552 PAF1 homolog, Paf1/RNA polymerase II complex component [Source:VGNC Symbol;Acc:VGNC:81492]
ENSMMUG00000005554 mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]
ENSMMUG00000005698 alkaline ceramidase 1 [Source:VGNC Symbol;Acc:VGNC:69460]
ENSMMUG00000005729 GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]
ENSMMUG00000005737 SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]
ENSMMUG00000005738 N-acetyltransferase 9 (putative) [Source:NCBI gene;Acc:699085]
ENSMMUG00000005906 heat shock transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:73533]
ENSMMUG00000007401 arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]
ENSMMUG00000007538 transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]
ENSMMUG00000007726 synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]
ENSMMUG00000007729 ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]
ENSMMUG00000008784 lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]
ENSMMUG00000009377 tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]
ENSMMUG00000009381 WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]
ENSMMUG00000009487 zinc finger protein 205 [Source:VGNC Symbol;Acc:VGNC:78869]
ENSMMUG00000009567 glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]
ENSMMUG00000009684 kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]
ENSMMUG00000009825 zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]
ENSMMUG00000009988 transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]
ENSMMUG00000010824 SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]
ENSMMUG00000010837 VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]
ENSMMUG00000010840 zinc finger protein 507 [Source:VGNC Symbol;Acc:VGNC:79410]
ENSMMUG00000010886 strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]

ENSMMUG00000011332 Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]
ENSMMUG00000011427 syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]
ENSMMUG00000011627 interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]
ENSMMUG00000011798 eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]
ENSMMUG00000011951 KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]
ENSMMUG00000012039 cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]
ENSMMUG00000012466 BCL2 binding component 3 [Source:NCBI gene;Acc:717955]
ENSMMUG00000012797 zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]
ENSMMUG00000012801 zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]
ENSMMUG00000012841 kallikrein 3 [Source:NCBI gene;Acc:719444]
ENSMMUG00000012937 proline rich 12 [Source:NCBI gene;Acc:719344]
ENSMMUG00000012938 SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]
ENSMMUG00000013477 creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]
ENSMMUG00000013646 unk zinc finger [Source:VGNC Symbol;Acc:VGNC:79803]
ENSMMUG00000013671 elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]
ENSMMUG00000013967 TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]
ENSMMUG00000014032 proline rich 36 [Source:NCBI gene;Acc:710443]
ENSMMUG00000014240 thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]
ENSMMUG00000014273 cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]
ENSMMUG00000014349 integrin subunit alpha X [Source:NCBI gene;Acc:100427850]
ENSMMUG00000014897 ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]
ENSMMUG00000015306 calponin 2 [Source:NCBI gene;Acc:721164]
ENSMMUG00000015476 unc-13 homolog A [Source:NCBI gene;Acc:720000]
ENSMMUG00000015513 CUGBP Elav-like family member 5 [Source:NCBI gene;Acc:721694]
ENSMMUG00000015572 GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]
ENSMMUG00000015744 zinc finger protein 302 [Source:NCBI gene;Acc:706279]
ENSMMUG00000015908 RB binding protein 6, ubiquitin ligase [Source:VGNC Symbol;Acc:VGNC:76677]
ENSMMUG00000016085 KxDL motif containing 1 [Source:NCBI gene;Acc:720235]
ENSMMUG00000016143 sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]
ENSMMUG00000016417 chromobox 8 [Source:NCBI gene;Acc:717514]
ENSMMUG00000016758 transmembrane protein 159 [Source:VGNC Symbol;Acc:VGNC:79836]
ENSMMUG00000017036 nicalin [Source:VGNC Symbol;Acc:VGNC:75032]
ENSMMUG00000017188 proteasome 26S subunit, ATPase 4 [Source:VGNC Symbol;Acc:VGNC:76448]
ENSMMUG00000017758 mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]
ENSMMUG00000017822 periplakin [Source:VGNC Symbol;Acc:VGNC:76240]
ENSMMUG00000017906 DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]
ENSMMUG00000017949 ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]
ENSMMUG00000018623 exportin 6 [Source:NCBI gene;Acc:704332]
ENSMMUG00000018932 adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]
ENSMMUG00000018967 ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]
ENSMMUG00000018986 seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]
ENSMMUG00000019095 TBC1 domain family member 24 [Source:NCBI gene;Acc:697106]
ENSMMUG00000019314 vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]
ENSMMUG00000019369 pleckstrin homology and RhoGEF domain containing G2 [Source:VGNC Symbol;Acc:VGNC:76133]
ENSMMUG00000019418 erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]
ENSMMUG00000019704 WD repeat domain 62 [Source:NCBI gene;Acc:719053]
ENSMMUG00000019966 zinc finger protein 557 [Source:NCBI gene;Acc:100424983]
ENSMMUG00000020254 exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]
ENSMMUG00000020258 E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]
ENSMMUG00000020462 CD300e molecule [Source:NCBI gene;Acc:114673189]
ENSMMUG00000020668 cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]

ENSMMUG00000022100 midnolin [Source:VGNC Symbol;Acc:VGNC:82186]
ENSMMUG00000022207 phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]
ENSMMUG00000022463 C-type lectin CD209L2 [Source:NCBI gene;Acc:574373]
ENSMMUG00000022931 NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]
ENSMMUG00000023286 UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]
ENSMMUG00000023303 ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]
ENSMMUG00000023403 GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]
ENSMMUG00000023717 MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]
ENSMMUG00000028733 RAS related [Source:VGNC Symbol;Acc:VGNC:76937]
ENSMMUG00000028771 Yip1 interacting factor homolog B, membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:79852]
ENSMMUG00000028785 zinc finger protein 146 [Source:VGNC Symbol;Acc:VGNC:78846]
ENSMMUG00000028907 insulin receptor [Source:NCBI gene;Acc:706009]
ENSMMUG00000028947 complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]
ENSMMUG00000028948 azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]
ENSMMUG00000029296 phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]
ENSMMUG00000038702 ZFP36 ring finger protein [Source:NCBI gene;Acc:722000]
ENSMMUG00000038989 erythropoietin receptor [Source:NCBI gene;Acc:714546]
ENSMMUG00000043134 coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]
ENSMMUG00000044817 nucleoporin 62 [Source:NCBI gene;Acc:100426308]
ENSMMUG00000046099 chromosome 19 C19orf81 homolog [Source:NCBI gene;Acc:719661]
ENSMMUG00000046417 chromobox 2 [Source:NCBI gene;Acc:717462]
ENSMMUG00000046918 zinc finger protein 223 [Source:NCBI gene;Acc:711652]
ENSMMUG00000048190 U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]
ENSMMUG00000048207 syntaxin 4 [Source:NCBI gene;Acc:704880]
ENSMMUG00000048215 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050057 FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]
ENSMMUG00000050739 caspase-14-like [Source:NCBI gene;Acc:702430]
ENSMMUG00000051226 CAP-Gly domain containing linker protein 3 [Source:NCBI gene;Acc:712058]
ENSMMUG00000051240 caspase 14 [Source:NCBI gene;Acc:718049]
ENSMMUG00000051323 caspase-14-like [Source:NCBI gene;Acc:702430]
ENSMMUG00000051537 CAP-Gly domain containing linker protein 3 [Source:NCBI gene;Acc:712058]
ENSMMUG00000052607 solute carrier family 7 member 5 [Source:NCBI gene;Acc:695886]
ENSMMUG00000052851 C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]
ENSMMUG00000053083 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000053257 caspase 14 [Source:NCBI gene;Acc:718049]
ENSMMUG00000053457 sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]
ENSMMUG00000053937 zinc finger protein 93 [Source:NCBI gene;Acc:720434]
ENSMMUG00000054052 activating transcription factor 5 [Source:NCBI gene;Acc:719150]
ENSMMUG00000054055 cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]
ENSMMUG00000054473 transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]
ENSMMUG00000054512 phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]
ENSMMUG00000055747 CD99 antigen [Source:NCBI gene;Acc:106995376]
ENSMMUG00000055751 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055775
ENSMMUG00000055893
ENSMMUG00000055973
ENSMMUG00000055976
ENSMMUG00000056109

ENSMMUG00000056437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056529 synaptotagmin 3 [Source:NCBI gene;Acc:719650]
ENSMMUG00000056555
ENSMMUG00000057157
ENSMMUG00000057160
ENSMMUG00000057329
ENSMMUG00000057345 calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]
ENSMMUG00000057361 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000057552 hematopoietic SH2 domain containing [Source:NCBI gene;Acc:719440]
ENSMMUG00000057682
ENSMMUG00000057850
ENSMMUG00000058042 heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]
ENSMMUG00000058137 zinc finger protein 816 [Source:NCBI gene;Acc:720058]
ENSMMUG00000058437
ENSMMUG00000058592
ENSMMUG00000058621
ENSMMUG00000058907
ENSMMUG00000058928 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059087
ENSMMUG00000059175
ENSMMUG00000059229 CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]
ENSMMUG00000060289
ENSMMUG00000060497
ENSMMUG00000060767
ENSMMUG00000061589 proteinase 3 [Source:HGNC Symbol;Acc:HGNC:9495]
ENSMMUG00000061749 PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]
ENSMMUG00000061995
ENSMMUG00000062037 stannin [Source:NCBI gene;Acc:711909]
ENSMMUG00000062273 dephospho-CoA kinase domain containing [Source:NCBI gene;Acc:715841]
ENSMMUG00000062296 potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]
ENSMMUG00000063988
ENSMMUG00000064052 CD300 molecule like family member d [Source:NCBI gene;Acc:703142]
ENSMMUG00000064095
ENSMMUG00000064146 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064204 kelch like family member 26 [Source:NCBI gene;Acc:719583]
ENSMMUG00000064463
ENSMMUG00000064532 mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]
ENSMMUG00000065025
ENSMMUG00000065054 G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]

Non-Survivors - SD1 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG00000000039	mitochondrial ribosomal protein L24 [Source:VGNC Symbol;Acc:VGNC:74739]
ENSMMUG00000000544	collagen type VI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:82084]
ENSMMUG00000000591	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]
ENSMMUG00000000629	serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]
ENSMMUG00000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]
ENSMMUG00000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]
ENSMMUG00000001105	purinergic receptor P2Y12 [Source:VGNC Symbol;Acc:VGNC:75642]
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]
ENSMMUG00000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]
ENSMMUG00000001616	peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]
ENSMMUG00000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]
ENSMMUG00000001880	DExD/H-box helicase 60 [Source:VGNC Symbol;Acc:VGNC:71711]
ENSMMUG00000001949	coiled-coil domain containing 191 [Source:VGNC Symbol;Acc:VGNC:70901]
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]
ENSMMUG00000002421	DNA polymerase mu [Source:VGNC Symbol;Acc:VGNC:81742]
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]
ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]
ENSMMUG00000002741	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]
ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]
ENSMMUG00000002836	coiled-coil domain containing 71 [Source:VGNC Symbol;Acc:VGNC:70862]
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]
ENSMMUG00000002952	laminin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:74229]
ENSMMUG00000002953	MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]
ENSMMUG00000003199	CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]
ENSMMUG00000003268	alpha 1,3-galactosyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:69550]
ENSMMUG00000003269	polyhomeotic homolog 2 [Source:VGNC Symbol;Acc:VGNC:75903]
ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]

ENSMMUG0000003629 phosphatidylinositol 4-kinase type 2 beta [Source:NCBI gene;Acc:693561]
ENSMMUG0000003697 inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]
ENSMMUG0000003739 mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]
ENSMMUG0000003827 albumin [Source:VGNC Symbol;Acc:VGNC:69782]
ENSMMUG0000003833 Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]
ENSMMUG0000003902 thrombospondin 3 [Source:VGNC Symbol;Acc:VGNC:78345]
ENSMMUG0000004042 Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]
ENSMMUG0000004103 collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]
ENSMMUG0000004149 eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]
ENSMMUG0000004175 transient receptor potential cation channel subfamily M member 2 [Source:VGNC Symbol;Acc:VGNC:78655]
ENSMMUG0000004224 poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]
ENSMMUG0000004257 beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]
ENSMMUG0000004273 dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]
ENSMMUG0000004471 family with sequence similarity 114 member A1 [Source:VGNC Symbol;Acc:VGNC:72342]
ENSMMUG0000004472 collagen type XVIII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81291]
ENSMMUG0000004477 solute carrier family 19 member 1 [Source:VGNC Symbol;Acc:VGNC:77408]
ENSMMUG0000004512 Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]
ENSMMUG0000004576 C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]
ENSMMUG0000004774 maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]
ENSMMUG0000004801 COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]
ENSMMUG0000005070 ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]
ENSMMUG0000005380 zinc finger protein 827 [Source:NCBI gene;Acc:706018]
ENSMMUG0000005511 SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]
ENSMMUG0000005521 glycogenin 1 [Source:VGNC Symbol;Acc:VGNC:73332]
ENSMMUG0000005668 kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]
ENSMMUG0000005939 serpin family I member 1 [Source:VGNC Symbol;Acc:VGNC:77366]
ENSMMUG0000005986 Kruppel like factor 17 [Source:NCBI gene;Acc:702810]
ENSMMUG0000005992 zinc metalloproteinase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]
ENSMMUG0000006029 odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]
ENSMMUG0000006130 prolyl 4-hydroxylase, transmembrane [Source:VGNC Symbol;Acc:VGNC:75693]
ENSMMUG0000006284 adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]
ENSMMUG0000006285 antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]
ENSMMUG0000006530 ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]
ENSMMUG0000006596 CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]
ENSMMUG0000006766 RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]
ENSMMUG0000006786 protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]
ENSMMUG0000006787 BCL2 like 15 [Source:VGNC Symbol;Acc:VGNC:70162]
ENSMMUG0000006819 helicase for meiosis 1 [Source:NCBI gene;Acc:704516]
ENSMMUG0000006836 chloride channel accessory 1 [Source:NCBI gene;Acc:574295]
ENSMMUG0000006851 SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]
ENSMMUG0000007204 cytochrome P450 family 2 subfamily W member 1 [Source:VGNC Symbol;Acc:VGNC:81300]
ENSMMUG0000007208 G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]
ENSMMUG0000007387 G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]
ENSMMUG0000007422 spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]
ENSMMUG0000007528 chordin [Source:VGNC Symbol;Acc:VGNC:71042]
ENSMMUG0000007760 centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]
ENSMMUG0000007970 CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]
ENSMMUG0000008031 zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]
ENSMMUG0000008070 YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]
ENSMMUG0000008126 lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]
ENSMMUG0000008162 fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]

ENSMMUG00000008189 cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]
ENSMMUG00000008251 cilia and flagella associated protein 126 [Source:VGNC Symbol;Acc:VGNC:71150]
ENSMMUG00000008379 adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]
ENSMMUG00000008383 major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]
ENSMMUG00000008385 NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]
ENSMMUG00000008510 THAP domain containing 9 [Source:VGNC Symbol;Acc:VGNC:79379]
ENSMMUG00000008515 sorting nexin 7 [Source:NCBI gene;Acc:716015]
ENSMMUG00000008518 phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]
ENSMMUG00000008698 cyclin dependent kinase 6 [Source:VGNC Symbol;Acc:VGNC:70983]
ENSMMUG00000008744 lysosomal protein transmembrane 5 [Source:VGNC Symbol;Acc:VGNC:74162]
ENSMMUG00000008791 CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]
ENSMMUG00000008828 BEN domain containing 5 [Source:NCBI gene;Acc:711150]
ENSMMUG00000008834 klotho beta [Source:VGNC Symbol;Acc:VGNC:73835]
ENSMMUG00000009040 cornulin [Source:VGNC Symbol;Acc:VGNC:71397]
ENSMMUG00000009184 myelin protein zero like 1 [Source:NCBI gene;Acc:698437]
ENSMMUG00000009197 myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]
ENSMMUG00000009388 F-box and leucine rich repeat protein 5 [Source:VGNC Symbol;Acc:VGNC:81408]
ENSMMUG00000009437 zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]
ENSMMUG00000009494 carboxypeptidase A5 [Source:VGNC Symbol;Acc:VGNC:71410]
ENSMMUG00000009499 mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]
ENSMMUG00000009508 TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]
ENSMMUG00000010043 epidermal growth factor [Source:VGNC Symbol;Acc:VGNC:72171]
ENSMMUG00000010336 DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]
ENSMMUG00000010420 makorin ring finger protein 1 [Source:VGNC Symbol;Acc:VGNC:81476]
ENSMMUG00000010581 Rap guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:76493]
ENSMMUG00000010626 CD1c molecule [Source:VGNC Symbol;Acc:VGNC:70756]
ENSMMUG00000011161 syntaxin binding protein 5 like [Source:VGNC Symbol;Acc:VGNC:78256]
ENSMMUG00000011347 DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]
ENSMMUG00000011878 poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]
ENSMMUG00000012068 signal induced proliferation associated 1 like 2 [Source:NCBI gene;Acc:100425123]
ENSMMUG00000012405 transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]
ENSMMUG00000012469 KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]
ENSMMUG00000012529 pleckstrin homology domain containing A8 [Source:VGNC Symbol;Acc:VGNC:81741]
ENSMMUG00000012635 zyxin [Source:VGNC Symbol;Acc:VGNC:78917]
ENSMMUG00000012697 AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]
ENSMMUG00000013044 selectin P [Source:VGNC Symbol;Acc:VGNC:77157]
ENSMMUG00000013330 ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]
ENSMMUG00000013385 elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]
ENSMMUG00000014045 protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]
ENSMMUG00000014046 SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]
ENSMMUG00000014076 AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]
ENSMMUG00000014138 forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]
ENSMMUG00000014573 dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]
ENSMMUG00000014674 golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]
ENSMMUG00000014699
ENSMMUG00000014707 cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]
ENSMMUG00000014720 NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]
ENSMMUG00000014868 OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]
ENSMMUG00000014874 GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]
ENSMMUG00000014876 nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]
ENSMMUG00000015097 tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]

ENSMMUG00000015329 MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]
ENSMMUG00000015477 lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]
ENSMMUG00000015479 tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]
ENSMMUG00000015555 ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]
ENSMMUG00000015685 zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]
ENSMMUG00000015922 formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]
ENSMMUG00000015924 BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]
ENSMMUG00000016096 lamin A/C [Source:VGNC Symbol;Acc:VGNC:74427]
ENSMMUG00000016099 hedgehog acyltransferase [Source:NCBI gene;Acc:712333]
ENSMMUG00000016111 chromosome 1 C1orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70432]
ENSMMUG00000016273 maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]
ENSMMUG00000016579 selectin L [Source:NCBI gene;Acc:701419]
ENSMMUG00000016580 selectin E [Source:VGNC Symbol;Acc:VGNC:77156]
ENSMMUG00000016582 chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]
ENSMMUG00000017056 Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]
ENSMMUG00000017266 UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]
ENSMMUG00000017510 membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]
ENSMMUG00000017701 myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]
ENSMMUG00000017740 sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]
ENSMMUG00000017983 tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]
ENSMMUG00000018245 EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]
ENSMMUG00000018478 interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]
ENSMMUG00000018549 zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]
ENSMMUG00000018566 Janus kinase 1 [Source:VGNC Symbol;Acc:VGNC:73810]
ENSMMUG00000018619 DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]
ENSMMUG00000018664 collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]
ENSMMUG00000018743 ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]
ENSMMUG00000018790 activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]
ENSMMUG00000018910 histidine rich glycoprotein [Source:VGNC Symbol;Acc:VGNC:73521]
ENSMMUG00000019040 hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]
ENSMMUG00000019041 hydroxysteroid 17-beta dehydrogenase 11 [Source:VGNC Symbol;Acc:VGNC:73431]
ENSMMUG00000019083 solute carrier family 9 member B2 [Source:VGNC Symbol;Acc:VGNC:77773]
ENSMMUG00000019085 3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]
ENSMMUG00000019089 centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]
ENSMMUG00000019527 DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]
ENSMMUG00000019528 adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]
ENSMMUG00000019536 potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]
ENSMMUG00000019563 collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]
ENSMMUG00000019802 family with sequence similarity 133 member B [Source:NCBI gene;Acc:702054]
ENSMMUG00000019830 Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]
ENSMMUG00000019833 Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]
ENSMMUG00000019835 CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]
ENSMMUG00000019933 TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]
ENSMMUG00000019937 maltase-glucoamylase 2 (putative) [Source:VGNC Symbol;Acc:VGNC:81720]
ENSMMUG00000019945 fibroblast growth factor receptor 3 [Source:VGNC Symbol;Acc:VGNC:72653]
ENSMMUG00000020156 CD1d molecule [Source:VGNC Symbol;Acc:VGNC:70757]
ENSMMUG00000020588 protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]
ENSMMUG00000020726 dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]
ENSMMUG00000020861 EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]
ENSMMUG00000020916 coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]
ENSMMUG00000020919 shroom family member 3 [Source:VGNC Symbol;Acc:VGNC:77352]

ENSMMUG00000021017 acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]
ENSMMUG00000021073 RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]
ENSMMUG00000021080 basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]
ENSMMUG00000021082 potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]
ENSMMUG00000021447 TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]
ENSMMUG00000021449 vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]
ENSMMUG00000021642 fibromodulin [Source:VGNC Symbol;Acc:VGNC:72686]
ENSMMUG00000021972 diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]
ENSMMUG00000021988 N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]
ENSMMUG00000022003 multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]
ENSMMUG00000022246 PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]
ENSMMUG00000022381 prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]
ENSMMUG00000022451 proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]
ENSMMUG00000022504 alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]
ENSMMUG00000022633 replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]
ENSMMUG00000022728 zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]
ENSMMUG00000022730 cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]
ENSMMUG00000022801 zinc finger and BTB domain containing 37 [Source:VGNC Symbol;Acc:VGNC:79702]
ENSMMUG00000022884 glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]
ENSMMUG00000023045 zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]
ENSMMUG00000023335 ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]
ENSMMUG00000023345 adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]
ENSMMUG00000023449 mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]
ENSMMUG00000024428 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000031279 torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]
ENSMMUG00000031291 regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]
ENSMMUG00000031534 ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]
ENSMMUG00000031540 purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]
ENSMMUG00000031684 KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]
ENSMMUG00000032180 RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]
ENSMMUG00000032249 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]
ENSMMUG00000032284 leucine rich repeat containing 47 [Source:VGNC Symbol;Acc:VGNC:74388]
ENSMMUG00000032659 mml-mir-711 [Source:miRBase;Acc:MI0012553]
ENSMMUG00000035160 U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]
ENSMMUG00000035943 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037284 small nucleolar RNA, H/ACA box 59A [Source:HGNC Symbol;Acc:HGNC:32653]
ENSMMUG00000038349 crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]
ENSMMUG00000038524 olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]
ENSMMUG00000038998 purinergic receptor P2Y13 [Source:VGNC Symbol;Acc:VGNC:83950]
ENSMMUG00000039009
ENSMMUG00000040007 peroxisomal biogenesis factor 1 [Source:VGNC Symbol;Acc:VGNC:81736]
ENSMMUG00000040393 zinc finger protein 655 [Source:NCBI gene;Acc:718811]
ENSMMUG00000040696 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000041198 muscle RAS oncogene homolog [Source:NCBI gene;Acc:716352]
ENSMMUG00000042419
ENSMMUG00000042510 coagulation factor V [Source:NCBI gene;Acc:704695]
ENSMMUG00000042618 involucrin [Source:NCBI gene;Acc:713728]
ENSMMUG00000042886 ETS variant transcription factor 3 [Source:NCBI gene;Acc:719741]
ENSMMUG00000043675 Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]
ENSMMUG00000044257 MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]
ENSMMUG00000044265 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000044822 coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]
ENSMMUG00000045513
ENSMMUG00000045609 CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]
ENSMMUG00000045959
ENSMMUG00000046969 Fc receptor like 3 [Source:NCBI gene;Acc:718801]
ENSMMUG00000048621 enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]
ENSMMUG00000048824 eva-1 homolog C [Source:NCBI gene;Acc:708681]
ENSMMUG00000049297
ENSMMUG00000049298 cholecystokinin A receptor [Source:NCBI gene;Acc:694742]
ENSMMUG00000049432 olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]
ENSMMUG00000049494
ENSMMUG00000049548
ENSMMUG00000049551
ENSMMUG00000049678
ENSMMUG00000049755 leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]
ENSMMUG00000049913
ENSMMUG00000049952
ENSMMUG00000049998 tachykinin receptor 3 [Source:NCBI gene;Acc:653013]
ENSMMUG00000050132
ENSMMUG00000050335
ENSMMUG00000050339 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050419 ADAM metalloproteinase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]
ENSMMUG00000050465 ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]
ENSMMUG00000050505 small integral membrane protein 4 [Source:NCBI gene;Acc:696553]
ENSMMUG00000050832
ENSMMUG00000050920 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051329
ENSMMUG00000051408 myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]
ENSMMUG00000051645
ENSMMUG00000051677
ENSMMUG00000051719 late cornified envelope 1C [Source:HGNC Symbol;Acc:HGNC:29464]
ENSMMUG00000051816 keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]
ENSMMUG00000051847
ENSMMUG00000051975
ENSMMUG00000052179
ENSMMUG00000052184 inka box actin regulator 2 [Source:NCBI gene;Acc:704844]
ENSMMUG00000052195
ENSMMUG00000052228 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052238
ENSMMUG00000052328 FAM20C golgi associated secretory pathway kinase [Source:NCBI gene;Acc:695088]
ENSMMUG00000052348
ENSMMUG00000052474
ENSMMUG00000052530
ENSMMUG00000052777
ENSMMUG00000052780
ENSMMUG00000052832
ENSMMUG00000052882 RAS like family 11 member B [Source:NCBI gene;Acc:701397]
ENSMMUG00000052961
ENSMMUG00000053254 adenylate kinase 4 [Source:NCBI gene;Acc:698560]
ENSMMUG00000053423
ENSMMUG00000053498

ENSMMUG00000053516
ENSMMUG00000053696 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000053790
ENSMMUG00000054158 acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]
ENSMMUG00000054175
ENSMMUG00000054286
ENSMMUG00000054486 testis expressed 35 [Source:NCBI gene;Acc:717255]
ENSMMUG00000054568
ENSMMUG00000054634 late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]
ENSMMUG00000054686
ENSMMUG00000054846 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054881
ENSMMUG00000055126
ENSMMUG00000055256 family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]
ENSMMUG00000055266 late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]
ENSMMUG00000055322 EPH receptor A1 [Source:NCBI gene;Acc:706295]
ENSMMUG00000055441
ENSMMUG00000055589
ENSMMUG00000055710 taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]
ENSMMUG00000055834
ENSMMUG00000056024
ENSMMUG00000056058 C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]
ENSMMUG00000056227 PRAME family member 17 [Source:NCBI gene;Acc:715953]
ENSMMUG00000056266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056511
ENSMMUG00000056593
ENSMMUG00000056707
ENSMMUG00000056798
ENSMMUG00000056841
ENSMMUG00000056855 potassium inwardly rectifying channel subfamily J member 15 [Source:NCBI gene;Acc:693427]
ENSMMUG00000056924 G protein-coupled receptor 149 [Source:NCBI gene;Acc:106997054]
ENSMMUG00000056940 late cornified envelope protein 1C [Source:NCBI gene;Acc:713408]
ENSMMUG00000056971 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056980
ENSMMUG00000057076 claudin 19 [Source:NCBI gene;Acc:697807]
ENSMMUG00000057204 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000057363
ENSMMUG00000057452
ENSMMUG00000057486
ENSMMUG00000057539
ENSMMUG00000057675 non-compact myelin associated protein [Source:NCBI gene;Acc:712192]
ENSMMUG00000057702
ENSMMUG00000057703
ENSMMUG00000057857
ENSMMUG00000057953
ENSMMUG00000058229 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000058370 taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]
ENSMMUG00000058423
ENSMMUG00000058432 zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]
ENSMMUG00000058472 late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]
ENSMMUG00000058499

ENSMMUG00000058587 family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]
ENSMMUG00000058817
ENSMMUG00000059036
ENSMMUG00000059318 urocortin 2 [Source:NCBI gene;Acc:106996925]
ENSMMUG00000059472 filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]
ENSMMUG00000059777
ENSMMUG00000059895
ENSMMUG00000060184 SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]
ENSMMUG00000060273 mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]
ENSMMUG00000060404
ENSMMUG00000060484 heterogeneous nuclear ribonucleoprotein D [Source:NCBI gene;Acc:694867]
ENSMMUG00000060555
ENSMMUG00000060576
ENSMMUG00000060581
ENSMMUG00000060760
ENSMMUG00000060795
ENSMMUG00000060808
ENSMMUG00000060891 histone H3.Y [Source:NCBI gene;Acc:718280]
ENSMMUG00000061098
ENSMMUG00000061194
ENSMMUG00000061208 MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]
ENSMMUG00000061474
ENSMMUG00000061684
ENSMMUG00000061785
ENSMMUG00000061845
ENSMMUG00000062083
ENSMMUG00000062175 carboxypeptidase B1 [Source:NCBI gene;Acc:712639]
ENSMMUG00000062248 follicular dendritic cell secreted protein [Source:NCBI gene;Acc:707784]
ENSMMUG00000062316 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062397
ENSMMUG00000062454
ENSMMUG00000062496
ENSMMUG00000062794
ENSMMUG00000062996
ENSMMUG00000063658 leucine rich repeat neuronal 2 [Source:NCBI gene;Acc:100429709]
ENSMMUG00000063790
ENSMMUG00000063981 nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]
ENSMMUG00000064014
ENSMMUG00000064174
ENSMMUG00000064226
ENSMMUG00000064242
ENSMMUG00000064602
ENSMMUG00000064638 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000064707
ENSMMUG00000064824 gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]
ENSMMUG00000064860 phosphoglycerate mutase 2 [Source:NCBI gene;Acc:720615]
ENSMMUG00000064915 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065005 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065134 Fas ligand [Source:NCBI gene;Acc:574159]
ENSMMUG00000065271
ENSMMUG00000065295

ENSMMUG0000000023 prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]
ENSMMUG00000000302 WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]
ENSMMUG00000000313 HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]
ENSMMUG00000000375 pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]
ENSMMUG00000000419 Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]
ENSMMUG00000000421 nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]
ENSMMUG00000000754 Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]
ENSMMUG00000000776 zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]
ENSMMUG00000000808 melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]
ENSMMUG00000000863 dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]
ENSMMUG00000000869 small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]
ENSMMUG00000000958 aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]
ENSMMUG00000001088 patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]
ENSMMUG00000001151 microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]
ENSMMUG00000001200
ENSMMUG00000001338 antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]
ENSMMUG00000001397 multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]
ENSMMUG00000001472 TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]
ENSMMUG00000001483 RNA pseudouridine synthase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77091]
ENSMMUG00000001532 glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]
ENSMMUG00000001534 calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]
ENSMMUG00000001547 zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]
ENSMMUG00000001568 AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]
ENSMMUG00000001707 amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]
ENSMMUG00000001725 solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]
ENSMMUG00000001820 regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]
ENSMMUG00000002260 protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]
ENSMMUG00000002930 G protein-coupled receptor 158 [Source:NCBI gene;Acc:707065]
ENSMMUG00000003067 endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]
ENSMMUG00000003131 interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]
ENSMMUG00000003133 interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]
ENSMMUG00000003348 neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]
ENSMMUG00000003482 glycine receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:73075]
ENSMMUG00000003484 tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]
ENSMMUG00000003499 solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]
ENSMMUG00000003548 tectorin beta [Source:VGNC Symbol;Acc:VGNC:78306]
ENSMMUG00000003584 mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]
ENSMMUG00000003591 pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]
ENSMMUG00000003598 tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]
ENSMMUG00000003658 autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]
ENSMMUG00000003684 ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]
ENSMMUG00000003834 basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]
ENSMMUG00000003913 DNA polymerase epsilon 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76204]
ENSMMUG00000004002 CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]
ENSMMUG00000004255 YLP motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79092]
ENSMMUG00000004309 APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]
ENSMMUG00000004376 calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]
ENSMMUG00000004417 secretion associated Ras related GTPase 1B [Source:VGNC Symbol;Acc:VGNC:76970]
ENSMMUG00000004470 CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]
ENSMMUG00000004558 OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]
ENSMMUG00000004748 zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]

ENSMMUG0000004749 PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]
ENSMMUG0000004797 CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]
ENSMMUG0000004798 S100 calcium binding protein G [Source:VGNC Symbol;Acc:VGNC:77016]
ENSMMUG0000004816 membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]
ENSMMUG0000004854 leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]
ENSMMUG0000004910 dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]
ENSMMUG0000004932 msh homeobox 2 [Source:VGNC Symbol;Acc:VGNC:84448]
ENSMMUG0000005108 RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]
ENSMMUG0000005263 chromosome X CXorf38 homolog [Source:VGNC Symbol;Acc:VGNC:71600]
ENSMMUG0000005270 ryanodine receptor 3 [Source:NCBI gene;Acc:694996]
ENSMMUG0000005293 G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]
ENSMMUG0000005294 casein kinase 2 beta [Source:NCBI gene;Acc:715807]
ENSMMUG0000005297 proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]
ENSMMUG0000005302 BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]
ENSMMUG0000005303 apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]
ENSMMUG0000005356 integrator complex subunit 8 [Source:VGNC Symbol;Acc:VGNC:73657]
ENSMMUG0000005415 olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]
ENSMMUG0000005478 trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]
ENSMMUG0000005532 male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]
ENSMMUG0000005745 EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]
ENSMMUG0000005845 REST corepressor 1 [Source:VGNC Symbol;Acc:VGNC:76752]
ENSMMUG0000005920 N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]
ENSMMUG0000006233 adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]
ENSMMUG0000006609 MHC class I polypeptide-related sequence B [Source:NCBI gene;Acc:715141]
ENSMMUG0000006659 aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]
ENSMMUG0000006855 acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]
ENSMMUG0000006997 thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]
ENSMMUG0000007068 tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]
ENSMMUG0000007140 MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]
ENSMMUG0000007534 protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]
ENSMMUG0000007540 Rho related BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76772]
ENSMMUG0000007688 angiomin [Source:VGNC Symbol;Acc:VGNC:69627]
ENSMMUG0000007773 solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]
ENSMMUG0000008006 RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]
ENSMMUG0000008007 multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]
ENSMMUG0000008184 methyltransferase like 24 [Source:VGNC Symbol;Acc:VGNC:74552]
ENSMMUG0000008529 chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]
ENSMMUG0000008566 zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]
ENSMMUG0000008618 calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]
ENSMMUG0000008623 coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]
ENSMMUG0000008624 forkhead box P3 [Source:VGNC Symbol;Acc:VGNC:72926]
ENSMMUG0000008838 mitochondrial coiled-coil domain 1 [Source:VGNC Symbol;Acc:VGNC:74548]
ENSMMUG0000008839 DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]
ENSMMUG0000008843 lymphotoxin alpha [Source:VGNC Symbol;Acc:VGNC:74452]
ENSMMUG0000008853 leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:HGNC:14189]
ENSMMUG0000008854 natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]
ENSMMUG0000009361 fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]
ENSMMUG0000009368 Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]
ENSMMUG0000009559 minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]
ENSMMUG0000009577 atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]
ENSMMUG0000009583 COP9 signalosome subunit 7A [Source:VGNC Symbol;Acc:VGNC:71185]

ENSMMUG0000009648 paired box 9 [Source:VGNC Symbol;Acc:VGNC:75768]
ENSMMUG0000009974 inositol-tetrakisphosphate 1-kinase [Source:VGNC Symbol;Acc:VGNC:73802]
ENSMMUG00000010007 CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]
ENSMMUG00000010137 microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]
ENSMMUG00000010173 presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]
ENSMMUG00000010180 PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]
ENSMMUG00000010201 atrophin 1 [Source:VGNC Symbol;Acc:VGNC:70157]
ENSMMUG00000010203 protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]
ENSMMUG00000010308 cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]
ENSMMUG00000010313 kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]
ENSMMUG00000010357 cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]
ENSMMUG00000010466 solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]
ENSMMUG00000010586 mesoderm posterior bHLH transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:74618]
ENSMMUG00000010858 prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]
ENSMMUG00000010881 cytochrome P450, family 26, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:699519]
ENSMMUG00000010949 SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]
ENSMMUG00000011061 ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]
ENSMMUG00000011155 FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]
ENSMMUG00000011440 neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]
ENSMMUG00000011472 PWWP domain containing 2A [Source:VGNC Symbol;Acc:VGNC:76564]
ENSMMUG00000011513 versican [Source:VGNC Symbol;Acc:VGNC:79445]
ENSMMUG00000011564 transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]
ENSMMUG00000011661 integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]
ENSMMUG00000011682 ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]
ENSMMUG00000011774 integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]
ENSMMUG00000011789 hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]
ENSMMUG00000012065 tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]
ENSMMUG00000012356 serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]
ENSMMUG00000012560 HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]
ENSMMUG00000013146 claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]
ENSMMUG00000013150 MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]
ENSMMUG00000013160 DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]
ENSMMUG00000013176 NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]
ENSMMUG00000013193 matrix metalloproteinase 16 [Source:VGNC Symbol;Acc:VGNC:74894]
ENSMMUG00000013283 cadherin related family member 2 [Source:NCBI gene;Acc:697249]
ENSMMUG00000013387 cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]
ENSMMUG00000013460 RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]
ENSMMUG00000013644 potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]
ENSMMUG00000013648 potassium two pore domain channel subfamily K member 16 [Source:VGNC Symbol;Acc:VGNC:73827]
ENSMMUG00000013696 myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]
ENSMMUG00000013871 WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]
ENSMMUG00000013892 coiled-coil domain containing 77 [Source:VGNC Symbol;Acc:VGNC:70889]
ENSMMUG00000013966 legumain [Source:VGNC Symbol;Acc:VGNC:74274]
ENSMMUG00000014149 LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]
ENSMMUG00000014265 TAP binding protein like [Source:NCBI gene;Acc:712626]
ENSMMUG00000014291 SPG11 vesicle trafficking associated, spatacin [Source:VGNC Symbol;Acc:VGNC:77856]
ENSMMUG00000014407 magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]
ENSMMUG00000014508 potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]
ENSMMUG00000014658 ninein [Source:VGNC Symbol;Acc:VGNC:75177]
ENSMMUG00000014715 fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]
ENSMMUG00000014771 zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]

ENSMMUG00000014983 alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]
ENSMMUG00000015288 adaptor related protein complex 3 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:69867]
ENSMMUG00000015394 WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]
ENSMMUG00000015416 bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]
ENSMMUG00000015686 abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]
ENSMMUG00000015693 lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]
ENSMMUG00000015861 cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]
ENSMMUG00000015865 arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]
ENSMMUG00000015866 vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]
ENSMMUG00000015871 zinc finger FYVE-type containing 26 [Source:VGNC Symbol;Acc:VGNC:79283]
ENSMMUG00000015873 RAD51 paralog B [Source:VGNC Symbol;Acc:VGNC:76647]
ENSMMUG00000016069 cubilin [Source:VGNC Symbol;Acc:VGNC:82132]
ENSMMUG00000016237 taxilin gamma [Source:NCBI gene;Acc:713769]
ENSMMUG00000016255 telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]
ENSMMUG00000016376 mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]
ENSMMUG00000016407 microtubule associated serine/threonine kinase like [Source:NCBI gene;Acc:708134]
ENSMMUG00000016465 histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]
ENSMMUG00000016469 proprotein convertase subtilisin/kexin type 1 inhibitor [Source:VGNC Symbol;Acc:VGNC:75639]
ENSMMUG00000016513 FA complementation group M [Source:VGNC Symbol;Acc:VGNC:72554]
ENSMMUG00000016552 inverted formin, FH2 and WH2 domain containing [Source:VGNC Symbol;Acc:VGNC:84357]
ENSMMUG00000016652 cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]
ENSMMUG00000016655 R3H domain and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:76551]
ENSMMUG00000016686 BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]
ENSMMUG00000016772 solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]
ENSMMUG00000016929 proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]
ENSMMUG00000017189 regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]
ENSMMUG00000017260 G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]
ENSMMUG00000017261 galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]
ENSMMUG00000017607 NEDD4 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:75053]
ENSMMUG00000017619 lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]
ENSMMUG00000017627 B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]
ENSMMUG00000017660
ENSMMUG00000018200 RNA transcription, translation and transport factor [Source:VGNC Symbol;Acc:VGNC:77087]
ENSMMUG00000018246 transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]
ENSMMUG00000018345 phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]
ENSMMUG00000018788 transmembrane protein 14B [Source:NCBI gene;Acc:698237]
ENSMMUG00000019172 spectrin beta, erythrocytic [Source:VGNC Symbol;Acc:VGNC:77870]
ENSMMUG00000019246 regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]
ENSMMUG00000019304 indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]
ENSMMUG00000019306 indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]
ENSMMUG00000019363 synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]
ENSMMUG00000019443 syntaxin 11 [Source:VGNC Symbol;Acc:VGNC:78041]
ENSMMUG00000019526 BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]
ENSMMUG00000019703 RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]
ENSMMUG00000019764 dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]
ENSMMUG00000020185 voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]
ENSMMUG00000020346 carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]
ENSMMUG00000020488 receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]
ENSMMUG00000020515 adhesion G protein-coupled receptor G2 [Source:VGNC Symbol;Acc:VGNC:69802]
ENSMMUG00000020534 p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]
ENSMMUG00000020558 serine/threonine kinase 38 [Source:VGNC Symbol;Acc:VGNC:78155]

ENSMMUG00000020586 serpin family A member 12 [Source:VGNC Symbol;Acc:VGNC:77266]
ENSMMUG00000020604 HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]
ENSMMUG00000020679 myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]
ENSMMUG00000020683 RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]
ENSMMUG00000021044 afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]
ENSMMUG00000021357 zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]
ENSMMUG00000021418 ATPase H+ transporting V1 subunit D [Source:VGNC Symbol;Acc:VGNC:70060]
ENSMMUG00000021610 regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]
ENSMMUG00000021634 TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]
ENSMMUG00000022247 osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]
ENSMMUG00000022407 serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]
ENSMMUG00000022409 solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]
ENSMMUG00000022893 von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]
ENSMMUG00000022921 solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]
ENSMMUG00000022933 DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]
ENSMMUG00000023016 jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]
ENSMMUG00000023018 RP2 activator of ARL3 GTPase [Source:VGNC Symbol;Acc:VGNC:76720]
ENSMMUG00000023025 synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]
ENSMMUG00000023060 A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]
ENSMMUG00000023139 small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]
ENSMMUG00000023282 aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]
ENSMMUG00000023361 GDNF family receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:72918]
ENSMMUG00000023598 sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]
ENSMMUG00000023761 ectonucleoside triphosphate diphosphohydrolase 7 [Source:VGNC Symbol;Acc:VGNC:72071]
ENSMMUG00000023816 semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]
ENSMMUG00000024234 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000024537 Small nucleolar RNA SNORA73 family [Source:RFAM;Acc:RF00045]
ENSMMUG00000025039 small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]
ENSMMUG00000025918 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000026243 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000026474 Small nucleolar RNA SNORD83 [Source:RFAM;Acc:RF00137]
ENSMMUG00000026975 mml-mir-206 [Source:miRBase;Acc:MI0007667]
ENSMMUG00000027220 microRNA 598 [Source:HGNC Symbol;Acc:HGNC:32854]
ENSMMUG00000027544 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000029186 exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]
ENSMMUG00000029420 protein tyrosine phosphatase receptor type K [Source:VGNC Symbol;Acc:VGNC:83453]
ENSMMUG00000029421 protein tyrosine phosphatase receptor type K [Source:VGNC Symbol;Acc:VGNC:83453]
ENSMMUG00000029455 olfactory receptor 4Q2 [Source:NCBI gene;Acc:114679271]
ENSMMUG00000029507 adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]
ENSMMUG00000029638 chromosome 7 C15orf65 homolog [Source:VGNC Symbol;Acc:VGNC:70689]
ENSMMUG00000032429 forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]
ENSMMUG00000032858 mml-mir-583 [Source:miRBase;Acc:MI0007850]
ENSMMUG00000034608 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000035748 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037243 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037890 polycomb group ring finger 5 [Source:NCBI gene;Acc:697020]
ENSMMUG00000038018 polycomb group ring finger 5 [Source:NCBI gene;Acc:697020]
ENSMMUG00000039101 pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]
ENSMMUG00000039268 lymphocyte antigen 6G6e-like [Source:NCBI gene;Acc:100427419]
ENSMMUG00000039292 lymphocyte antigen 6G6e-like [Source:NCBI gene;Acc:100427419]
ENSMMUG00000039560 cofilin 2 [Source:NCBI gene;Acc:693875]

ENSMMUG00000040071
ENSMMUG00000040274 MAGE family member A4 [Source:NCBI gene;Acc:710825]
ENSMMUG00000041376 G antigen 10 [Source:NCBI gene;Acc:693330]
ENSMMUG00000041519 zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]
ENSMMUG00000042378 pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]
ENSMMUG00000043648
ENSMMUG00000044581 modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]
ENSMMUG00000045093 cyclin B3 [Source:NCBI gene;Acc:694534]
ENSMMUG00000045654 tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]
ENSMMUG00000046550 coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]
ENSMMUG00000047465 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048039 apurinic/aprimidinic endodeoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:84305]
ENSMMUG00000048066 trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]
ENSMMUG00000048076 TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650]
ENSMMUG00000049265 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049267
ENSMMUG00000049508
ENSMMUG00000049543
ENSMMUG00000049666
ENSMMUG00000049735 allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]
ENSMMUG00000049862
ENSMMUG00000049866
ENSMMUG00000049894
ENSMMUG00000049935
ENSMMUG00000050104 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050405
ENSMMUG00000050495
ENSMMUG00000050511
ENSMMUG00000050549 lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]
ENSMMUG00000050597
ENSMMUG00000050608
ENSMMUG00000051037
ENSMMUG00000051170
ENSMMUG00000051414 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051972 zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]
ENSMMUG00000051989 interleukin 5 [Source:NCBI gene;Acc:710622]
ENSMMUG00000052073
ENSMMUG00000052252 protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]
ENSMMUG00000052422 ATPase H+ transporting V1 subunit G2 [Source:NCBI gene;Acc:715331]
ENSMMUG00000052453 serpin family A member 11 [Source:NCBI gene;Acc:701483]
ENSMMUG00000052637 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052828
ENSMMUG00000052891
ENSMMUG00000053013
ENSMMUG00000053106
ENSMMUG00000053324 lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]
ENSMMUG00000053367 secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]
ENSMMUG00000053481
ENSMMUG00000053489
ENSMMUG00000053561
ENSMMUG00000053656

ENSMMUG00000053691 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000053916
ENSMMUG00000053984
ENSMMUG00000053989
ENSMMUG00000053990
ENSMMUG00000054159 lymphocyte antigen 6 family member G5C [Source:VGNC Symbol;Acc:VGNC:83431]
ENSMMUG00000054184 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054377
ENSMMUG00000054414
ENSMMUG00000054755 transmembrane protein 65 [Source:NCBI gene;Acc:705727]
ENSMMUG00000054904 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054942
ENSMMUG00000054960
ENSMMUG00000055012
ENSMMUG00000055018 sushi domain containing 6 [Source:NCBI gene;Acc:712719]
ENSMMUG00000055121 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055199 cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]
ENSMMUG00000055601
ENSMMUG00000055906 angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]
ENSMMUG00000055914
ENSMMUG00000056063
ENSMMUG00000056168
ENSMMUG00000056376
ENSMMUG00000056522
ENSMMUG00000056580 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056605 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056749 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056796 NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]
ENSMMUG00000056797
ENSMMUG00000056844
ENSMMUG00000056906
ENSMMUG00000056992 zinc finger AN1-type containing 6 [Source:NCBI gene;Acc:717543]
ENSMMUG00000057063 solute carrier family 6 member 14 [Source:NCBI gene;Acc:709598]
ENSMMUG00000057196 pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]
ENSMMUG00000057219 tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]
ENSMMUG00000057283
ENSMMUG00000057818
ENSMMUG00000057909
ENSMMUG00000058002 zinc finger protein 669-like [Source:NCBI gene;Acc:696282]
ENSMMUG00000058013 melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]
ENSMMUG00000058096 CDKN2A interacting protein N-terminal like [Source:NCBI gene;Acc:710774]
ENSMMUG00000058106 otoconin 90 [Source:NCBI gene;Acc:100429699]
ENSMMUG00000058108 BMP and activin membrane bound inhibitor [Source:NCBI gene;Acc:710152]
ENSMMUG00000058162
ENSMMUG00000058176 b-defensin2-like [Source:NCBI gene;Acc:100169969]
ENSMMUG00000058187
ENSMMUG00000058534
ENSMMUG00000058557
ENSMMUG00000058700 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000058800
ENSMMUG00000058935 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000059134
ENSMMUG00000059335
ENSMMUG00000059428 olfactory receptor 2V2 [Source:NCBI gene;Acc:707790]
ENSMMUG00000059442
ENSMMUG00000059491
ENSMMUG00000059589
ENSMMUG00000059608 fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]
ENSMMUG00000059671
ENSMMUG00000059681
ENSMMUG00000059932 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059984 pellino E3 ubiquitin protein ligase family member 2 [Source:NCBI gene;Acc:699169]
ENSMMUG00000060632
ENSMMUG00000060812 autophagy related 12 [Source:NCBI gene;Acc:696765]
ENSMMUG00000060865 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060901
ENSMMUG00000061031
ENSMMUG00000061079 golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]
ENSMMUG00000061151
ENSMMUG00000061165
ENSMMUG00000061282 hyaluronan and proteoglycan link protein 1 [Source:NCBI gene;Acc:712501]
ENSMMUG00000061431 outer dense fiber of sperm tails 3 like 1 [Source:NCBI gene;Acc:706545]
ENSMMUG00000061526 synaptopodin 2 like [Source:NCBI gene;Acc:714736]
ENSMMUG00000061576
ENSMMUG00000061833 transmembrane protein 251 [Source:NCBI gene;Acc:708131]
ENSMMUG00000061935
ENSMMUG00000062055 glyoxalase I [Source:NCBI gene;Acc:719518]
ENSMMUG00000062063 melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]
ENSMMUG00000062217 HD domain containing 3 [Source:NCBI gene;Acc:715621]
ENSMMUG00000062254
ENSMMUG00000062326
ENSMMUG00000062518
ENSMMUG00000062522
ENSMMUG00000062628
ENSMMUG00000063121
ENSMMUG00000063198
ENSMMUG00000063322
ENSMMUG00000063346
ENSMMUG00000063462
ENSMMUG00000063495
ENSMMUG00000063525
ENSMMUG00000063694 cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]
ENSMMUG00000063913 endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]
ENSMMUG00000063986
ENSMMUG00000064321
ENSMMUG00000064341 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000064557
ENSMMUG00000065212
ENSMMUG00000065247 opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]
ENSMMUG00000000108 NCK associated protein 1 like [Source:VGNC Symbol;Acc:VGNC:75063]
ENSMMUG00000000152 transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]
ENSMMUG00000000293 catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]

ENSMMUG0000000327 fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]
ENSMMUG0000000376 bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]
ENSMMUG0000000381 IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]
ENSMMUG0000000389 nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]
ENSMMUG0000000582 NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]
ENSMMUG0000000803 signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]
ENSMMUG0000000874 carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]
ENSMMUG0000001387 p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]
ENSMMUG0000001409 coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]
ENSMMUG0000001536 glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]
ENSMMUG0000001739 ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]
ENSMMUG0000001745 oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]
ENSMMUG0000001748 spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]
ENSMMUG0000001845 DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]
ENSMMUG0000001989 RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]
ENSMMUG0000002267 laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]
ENSMMUG0000002452 solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]
ENSMMUG0000002483 citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]
ENSMMUG0000002515 protein phosphatase 2 phosphatase activator [Source:VGNC Symbol;Acc:VGNC:76583]
ENSMMUG0000002536 calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]
ENSMMUG0000002562 mediator complex subunit 19 [Source:VGNC Symbol;Acc:VGNC:74615]
ENSMMUG0000002563 zinc finger DHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]
ENSMMUG0000002566 selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]
ENSMMUG0000002917 single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]
ENSMMUG0000003005 MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]
ENSMMUG0000003006 serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]
ENSMMUG0000003007 caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]
ENSMMUG0000003098 peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]
ENSMMUG0000003105 inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]
ENSMMUG0000003106 SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]
ENSMMUG0000003140 RELT TNF receptor [Source:VGNC Symbol;Acc:VGNC:76728]
ENSMMUG0000003217 transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]
ENSMMUG0000003314 aquaporin 3 (Gill blood group) [Source:NCBI gene;Acc:702721]
ENSMMUG0000003355 lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]
ENSMMUG0000003356 tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]
ENSMMUG0000003400 baculoviral IAP repeat containing 2 [Source:NCBI gene;Acc:702592]
ENSMMUG0000003669 methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]
ENSMMUG0000003797 ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]
ENSMMUG0000003874 interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]
ENSMMUG0000003950 nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]
ENSMMUG0000003955 post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]
ENSMMUG0000003976 glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]
ENSMMUG0000004014 interferon regulatory factor 7 [Source:VGNC Symbol;Acc:VGNC:73765]
ENSMMUG0000004022 zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]
ENSMMUG0000004330 peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]
ENSMMUG0000004332 tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]
ENSMMUG0000004868 dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]
ENSMMUG0000004982 activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]
ENSMMUG0000005150 CD163 molecule [Source:VGNC Symbol;Acc:VGNC:70752]
ENSMMUG0000005208 RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]
ENSMMUG0000005215 Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]

ENSMMUG0000005255 TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]
ENSMMUG0000005440 ELMO domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72109]
ENSMMUG0000005480 carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]
ENSMMUG0000005482 lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]
ENSMMUG0000005483 ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]
ENSMMUG0000005486 protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]
ENSMMUG0000005488 coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]
ENSMMUG0000005504 nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]
ENSMMUG0000005595 RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]
ENSMMUG0000005622 dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]
ENSMMUG0000005685 pseudouridine synthase 10 [Source:VGNC Symbol;Acc:VGNC:76547]
ENSMMUG0000005776 atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]
ENSMMUG0000005982 coiled-coil domain containing 84 [Source:NCBI gene;Acc:707400]
ENSMMUG0000005989 GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]
ENSMMUG0000005991 TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]
ENSMMUG0000006076 intraflagellar transport 74 [Source:VGNC Symbol;Acc:VGNC:73430]
ENSMMUG0000006079 leucine rich repeat containing 19 [Source:VGNC Symbol;Acc:VGNC:74337]
ENSMMUG0000006180 tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]
ENSMMUG0000006181 WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]
ENSMMUG0000006293 SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]
ENSMMUG0000006375 coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]
ENSMMUG0000006405 secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]
ENSMMUG0000006468 FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]
ENSMMUG0000006470 complement C1r subcomponent [Source:NCBI gene;Acc:722133]
ENSMMUG0000006568 basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]
ENSMMUG0000006655 myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]
ENSMMUG0000006689 nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]
ENSMMUG0000006692 signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]
ENSMMUG0000006758 cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]
ENSMMUG0000006893 D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]
ENSMMUG0000006929 ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]
ENSMMUG0000006931 kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]
ENSMMUG0000006941 exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]
ENSMMUG0000007402 potassium two pore domain channel subfamily K member 7 [Source:VGNC Symbol;Acc:VGNC:73996]
ENSMMUG0000007610 ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]
ENSMMUG0000008077 dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]
ENSMMUG0000008080 ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]
ENSMMUG0000008081 ATP binding cassette subfamily G member 8 [Source:VGNC Symbol;Acc:VGNC:69392]
ENSMMUG0000008106 solute carrier family 25 member 17 [Source:NCBI gene;Acc:705547]
ENSMMUG0000008160 neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]
ENSMMUG0000008288 sorting nexin 17 [Source:VGNC Symbol;Acc:VGNC:77709]
ENSMMUG0000008336 acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]
ENSMMUG0000008384 solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]
ENSMMUG0000008387 dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]
ENSMMUG0000008651 FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]
ENSMMUG0000008652 coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]
ENSMMUG0000008758 zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]
ENSMMUG0000008778 parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]
ENSMMUG0000008875 solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]
ENSMMUG0000008923 Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]
ENSMMUG0000009308 histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]

ENSMMUG0000009312 leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]
ENSMMUG0000009318 BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]
ENSMMUG0000009593 WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]
ENSMMUG00000010213 GLI pathogenesis related 2 [Source:VGNC Symbol;Acc:VGNC:81414]
ENSMMUG00000010451 inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]
ENSMMUG00000010513 ribulose-5-phosphate-3-epimerase [Source:NCBI gene;Acc:711322]
ENSMMUG00000010515 KAT8 regulatory NSL complex subunit 1 like [Source:VGNC Symbol;Acc:VGNC:73913]
ENSMMUG00000011209 BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]
ENSMMUG00000011441 transmembrane protein 106C [Source:VGNC Symbol;Acc:VGNC:79741]
ENSMMUG00000011516 ADP ribosylation factor like GTPase 4C [Source:VGNC Symbol;Acc:VGNC:70018]
ENSMMUG00000011527 TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]
ENSMMUG00000011528 F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]
ENSMMUG00000011650 dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]
ENSMMUG00000011767 carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]
ENSMMUG00000011817 aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]
ENSMMUG00000012147 collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]
ENSMMUG00000012316 CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]
ENSMMUG00000012350 mercaptopyruvate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:74922]
ENSMMUG00000012597 ubiquitin associated protein 2 [Source:VGNC Symbol;Acc:VGNC:78949]
ENSMMUG00000012668 centriolin [Source:VGNC Symbol;Acc:VGNC:71204]
ENSMMUG00000012940 tRNA phosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:79242]
ENSMMUG00000012941 nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]
ENSMMUG00000012942 DnaJ heat shock protein family (Hsp40) member C4 [Source:NCBI gene;Acc:717847]
ENSMMUG00000012944 vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]
ENSMMUG00000013099 pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]
ENSMMUG00000013251 xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]
ENSMMUG00000013397 peroxiredoxin 5 [Source:NCBI gene;Acc:719764]
ENSMMUG00000013766 prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]
ENSMMUG00000013798 fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]
ENSMMUG00000013830 glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]
ENSMMUG00000013832 ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]
ENSMMUG00000013901 mitogen-activated protein kinase kinase kinase 3 [Source:VGNC Symbol;Acc:VGNC:81466]
ENSMMUG00000013944 regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]
ENSMMUG00000014131 microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]
ENSMMUG00000014237 lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]
ENSMMUG00000014277 ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]
ENSMMUG00000014397 NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]
ENSMMUG00000014425 protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]
ENSMMUG00000014530 pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]
ENSMMUG00000014864 VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]
ENSMMUG00000014866 hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]
ENSMMUG00000014872 dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]
ENSMMUG00000014875 C2CD2 like [Source:VGNC Symbol;Acc:VGNC:70435]
ENSMMUG00000014880 sortilin related receptor 1 [Source:NCBI gene;Acc:713011]
ENSMMUG00000014986 testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]
ENSMMUG00000015019 VPS37C subunit of ESCRT-I [Source:VGNC Symbol;Acc:VGNC:79578]
ENSMMUG00000015054 ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:69844]
ENSMMUG00000015108 SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]
ENSMMUG00000015258 glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]
ENSMMUG00000015468 checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]
ENSMMUG00000015606 Spi-1 proto-oncogene [Source:NCBI gene;Acc:712010]

ENSMMUG00000015607 solute carrier family 39 member 13 [Source:VGNC Symbol;Acc:VGNC:77538]
ENSMMUG00000015611 proteasome 26S subunit, ATPase 3 [Source:NCBI gene;Acc:713356]
ENSMMUG00000015926 2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]
ENSMMUG00000015928 ankyrin repeat domain 13D [Source:VGNC Symbol;Acc:VGNC:69722]
ENSMMUG00000015930 ADP ribosylation factor like GTPase 6 interacting protein 4 [Source:VGNC Symbol;Acc:VGNC:69860]
ENSMMUG00000015931 phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]
ENSMMUG00000016323 Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]
ENSMMUG00000016327 coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]
ENSMMUG00000016434 NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]
ENSMMUG00000016438 protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]
ENSMMUG00000016442 glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]
ENSMMUG00000016454 4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]
ENSMMUG00000016621 transmembrane BAX inhibitor motif containing 4 [Source:NCBI gene;Acc:717825]
ENSMMUG00000016678 Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]
ENSMMUG00000016737 contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]
ENSMMUG00000016827 UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]
ENSMMUG00000016890 solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]
ENSMMUG00000016894 ribosomal protein S25 [Source:NCBI gene;Acc:702593]
ENSMMUG00000017026 fibrosin like 1 [Source:NCBI gene;Acc:696295]
ENSMMUG00000017124 spliceosome associated factor 3, U4/U6 recycling protein [Source:VGNC Symbol;Acc:VGNC:77029]
ENSMMUG00000017129 solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]
ENSMMUG00000017209 C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]
ENSMMUG00000017287 PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]
ENSMMUG00000017450 MOB kinase activator 2 [Source:NCBI gene;Acc:720951]
ENSMMUG00000017458 DDB1 and CUL4 associated factor 12 [Source:VGNC Symbol;Acc:VGNC:71678]
ENSMMUG00000017810 structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]
ENSMMUG00000018029 amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]
ENSMMUG00000018030 endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]
ENSMMUG00000018034 suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]
ENSMMUG00000018144 C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]
ENSMMUG00000018237 plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]
ENSMMUG00000018239 centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]
ENSMMUG00000018298 killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]
ENSMMUG00000018396 HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]
ENSMMUG00000018471 serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]
ENSMMUG00000018485 methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]
ENSMMUG00000018492 TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]
ENSMMUG00000019070 focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]
ENSMMUG00000019607 patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]
ENSMMUG00000019682 mitochondrial ribosomal protein S9 [Source:VGNC Symbol;Acc:VGNC:74762]
ENSMMUG00000019690 SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]
ENSMMUG00000019837 ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]
ENSMMUG00000019839 lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]
ENSMMUG00000019988 homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]
ENSMMUG00000020009 receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]
ENSMMUG00000020190 valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]
ENSMMUG00000020854 C-type lectin domain family 4 member F [Source:VGNC Symbol;Acc:VGNC:71349]
ENSMMUG00000021005 taste receptor type 2 member 50 [Source:NCBI gene;Acc:693513]
ENSMMUG00000021039 X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]
ENSMMUG00000021428 lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]
ENSMMUG00000021436 latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]

ENSMMUG00000021564 lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]
ENSMMUG00000021655 histone deacetylase 7 [Source:NCBI gene;Acc:718225]
ENSMMUG00000021661 leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]
ENSMMUG00000021664 lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]
ENSMMUG00000021736 single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]
ENSMMUG00000021877 protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]
ENSMMUG00000021928 CAP-Gly domain containing linker protein 1 [Source:VGNC Symbol;Acc:VGNC:71166]
ENSMMUG00000022031 DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]
ENSMMUG00000022109 CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]
ENSMMUG00000022313 activating transcription factor 7 [Source:NCBI gene;Acc:700403]
ENSMMUG00000022346 surfeit 2 [Source:VGNC Symbol;Acc:VGNC:78059]
ENSMMUG00000022348 surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]
ENSMMUG00000022401 EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]
ENSMMUG00000022406 ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]
ENSMMUG00000022590 metallophosphoesterase domain containing 1 [Source:NCBI gene;Acc:715021]
ENSMMUG00000022613 reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]
ENSMMUG00000022785 solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]
ENSMMUG00000022961 solute carrier family 11 member 2 [Source:VGNC Symbol;Acc:VGNC:77383]
ENSMMUG00000022996 HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]
ENSMMUG00000023032 intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]
ENSMMUG00000023048 cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]
ENSMMUG00000023192 choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]
ENSMMUG00000023225 E2F transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:72027]
ENSMMUG00000023300 FERM domain containing 8 [Source:NCBI gene;Acc:716379]
ENSMMUG00000023370 DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]
ENSMMUG00000023477
ENSMMUG00000023479 latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]
ENSMMUG00000023636 importin 7 [Source:NCBI gene;Acc:704213]
ENSMMUG00000023797 post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]
ENSMMUG00000025150 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000026950 microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]
ENSMMUG00000027375 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000027543 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000027986 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000030891 hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]
ENSMMUG00000030964 RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]
ENSMMUG00000031100 membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]
ENSMMUG00000031163 membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]
ENSMMUG00000032030 dolichyldiphosphatase 1 [Source:VGNC Symbol;Acc:VGNC:71947]
ENSMMUG00000032142 complement C8 gamma chain [Source:VGNC Symbol;Acc:VGNC:70481]
ENSMMUG00000035551 small nucleolar RNA, C/D box 11B [Source:HGNC Symbol;Acc:HGNC:33571]
ENSMMUG00000035888 small nucleolar RNA, C/D box 121A [Source:HGNC Symbol;Acc:HGNC:33560]
ENSMMUG00000037977 protein phosphatase 1 regulatory inhibitor subunit 14B [Source:NCBI gene;Acc:722103]
ENSMMUG00000038076 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000038256 aquaporin 2 [Source:NCBI gene;Acc:711719]
ENSMMUG00000038363 adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]
ENSMMUG00000038944
ENSMMUG00000038988 RNase MRP [Source:RFAM;Acc:RF00030]
ENSMMUG00000039301 StAR related lipid transfer domain containing 10 [Source:NCBI gene;Acc:718503]
ENSMMUG00000039346 apolipoprotein B mRNA editing enzyme catalytic subunit 3G [Source:NCBI gene;Acc:574398]
ENSMMUG00000039397 tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]

ENSMMUG00000039412 cholinergic receptor muscarinic 4 [Source:NCBI gene;Acc:574195]
ENSMMUG00000039520 chromosome 11 C12orf43 homolog [Source:NCBI gene;Acc:698821]
ENSMMUG00000040741 thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]
ENSMMUG00000041101 protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]
ENSMMUG00000041729
ENSMMUG00000042598 transmembrane protein 18 [Source:NCBI gene;Acc:721515]
ENSMMUG00000042839
ENSMMUG00000042870 Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]
ENSMMUG00000043396 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000044048 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000044496 H2A histone family, member X [Source:NCBI gene;Acc:703073]
ENSMMUG00000046169
ENSMMUG00000046478 WASH complex subunit 3 [Source:NCBI gene;Acc:697824]
ENSMMUG00000046774 RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]
ENSMMUG00000047219
ENSMMUG00000047247 matrix Gla protein [Source:NCBI gene;Acc:574116]
ENSMMUG00000048375 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048395 chromobox 6 [Source:NCBI gene;Acc:702133]
ENSMMUG00000049123 gastrokine 1 [Source:NCBI gene;Acc:706565]
ENSMMUG00000049232 AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]
ENSMMUG00000049305 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049374
ENSMMUG00000049479
ENSMMUG00000049514 solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]
ENSMMUG00000049802 olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]
ENSMMUG00000049850 proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]
ENSMMUG00000050028
ENSMMUG00000050119
ENSMMUG00000050529 phosphodiesterase 6H [Source:NCBI gene;Acc:700447]
ENSMMUG00000050543
ENSMMUG00000050585
ENSMMUG00000050696 taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]
ENSMMUG00000050822 carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]
ENSMMUG00000050844 BTB domain containing 18 [Source:NCBI gene;Acc:703264]
ENSMMUG00000051072
ENSMMUG00000051363
ENSMMUG00000051691
ENSMMUG00000051807
ENSMMUG00000051852 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051925
ENSMMUG00000051937 uncharacterized LOC707807 [Source:NCBI gene;Acc:707807]
ENSMMUG00000052134
ENSMMUG00000052168
ENSMMUG00000052424
ENSMMUG00000052476 zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]
ENSMMUG00000052569
ENSMMUG00000052785 extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]
ENSMMUG00000052854 mucin like 1 [Source:NCBI gene;Acc:100423942]
ENSMMUG00000052954 Wnt family member 6 [Source:NCBI gene;Acc:700573]
ENSMMUG00000053200 ubiquitin conjugating enzyme E2 R2 [Source:NCBI gene;Acc:701507]
ENSMMUG00000053376

ENSMMUG00000053378
ENSMMUG00000053406
ENSMMUG00000053460
ENSMMUG00000053496
ENSMMUG00000053625 sterol-C5-desaturase [Source:NCBI gene;Acc:706827]
ENSMMUG00000053710
ENSMMUG00000053722
ENSMMUG00000053781 Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]
ENSMMUG00000054199
ENSMMUG00000054211
ENSMMUG00000054225 taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]
ENSMMUG00000054398
ENSMMUG00000054449 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054621
ENSMMUG00000054736
ENSMMUG00000054816 interleukin 1 receptor associated kinase 3 [Source:NCBI gene;Acc:717845]
ENSMMUG00000055209
ENSMMUG00000055352
ENSMMUG00000055820
ENSMMUG00000055963
ENSMMUG00000056009
ENSMMUG00000056184
ENSMMUG00000056186
ENSMMUG00000056330
ENSMMUG00000056342 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056343
ENSMMUG00000056381 forkhead box R1 [Source:NCBI gene;Acc:707285]
ENSMMUG00000056729 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000056741 ovostatin-like [Source:NCBI gene;Acc:722294]
ENSMMUG00000056755
ENSMMUG00000056840
ENSMMUG00000056905
ENSMMUG00000056939
ENSMMUG00000057134 keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]
ENSMMUG00000057179 cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]
ENSMMUG00000057331 RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]
ENSMMUG00000057499
ENSMMUG00000057570
ENSMMUG00000057640 plakophilin-3-like [Source:NCBI gene;Acc:114669833]
ENSMMUG00000057785
ENSMMUG00000057934
ENSMMUG00000058237
ENSMMUG00000058352
ENSMMUG00000058536
ENSMMUG00000058885 formin binding protein 4 [Source:NCBI gene;Acc:712633]
ENSMMUG00000059182
ENSMMUG00000059188
ENSMMUG00000059299 membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]
ENSMMUG00000059341 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059436 interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]
ENSMMUG00000059504

ENSMMUG00000059548
ENSMMUG00000059700
ENSMMUG00000059782
ENSMMUG00000060435 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060517
ENSMMUG00000060533
ENSMMUG00000060562
ENSMMUG00000060596 BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]
ENSMMUG00000060675
ENSMMUG00000060712
ENSMMUG00000060750 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060754 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060761
ENSMMUG00000060917
ENSMMUG00000061021
ENSMMUG00000061123 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061244
ENSMMUG00000061342
ENSMMUG00000061424 ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]
ENSMMUG00000061533
ENSMMUG00000061603
ENSMMUG00000061606 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061797 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000061896
ENSMMUG00000061923
ENSMMUG00000062091
ENSMMUG00000062208 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062474 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062781 chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]
ENSMMUG00000062863
ENSMMUG00000063112
ENSMMUG00000063238
ENSMMUG00000063639
ENSMMUG00000063759 transmembrane protein 185B [Source:NCBI gene;Acc:695744]
ENSMMUG00000063820 olfactory receptor, family 52, subfamily M, member 1 [Source:NCBI gene;Acc:717723]
ENSMMUG00000063898 apolipoprotein F [Source:NCBI gene;Acc:712761]
ENSMMUG00000063947 oxoeicosanoid receptor 1 [Source:NCBI gene;Acc:713039]
ENSMMUG00000064005
ENSMMUG00000064122
ENSMMUG00000064229
ENSMMUG00000064295
ENSMMUG00000064730
ENSMMUG00000064892
ENSMMUG00000064931
ENSMMUG00000065277 hepatic and glial cell adhesion molecule [Source:NCBI gene;Acc:716321]
ENSMMUG00000000194 solute carrier family 27 member 1 [Source:VGNC Symbol;Acc:VGNC:77438]
ENSMMUG00000000196 niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]
ENSMMUG00000000198 collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]
ENSMMUG00000000396 intraflagellar transport 52 [Source:NCBI gene;Acc:694933]
ENSMMUG00000000452 LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]
ENSMMUG00000000588 rhomboid 5 homolog 1 [Source:NCBI gene;Acc:693423]

ENSMMUG0000000590 NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]
ENSMMUG0000000700 CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]
ENSMMUG0000000740 spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]
ENSMMUG0000000757 ring finger protein 114 [Source:VGNC Symbol;Acc:VGNC:76725]
ENSMMUG0000000994 epidermal growth factor receptor pathway substrate 15 like 1 [Source:VGNC Symbol;Acc:VGNC:72100]
ENSMMUG0000001036 coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]
ENSMMUG0000001058 tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]
ENSMMUG0000001220 adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]
ENSMMUG0000001269 chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]
ENSMMUG0000001271 cleavage and polyadenylation specific factor 4 like [Source:NCBI gene;Acc:698279]
ENSMMUG0000001427 myosin heavy chain 14 [Source:VGNC Symbol;Acc:VGNC:75006]
ENSMMUG0000001538 GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]
ENSMMUG0000001715 zinc finger protein 627 [Source:VGNC Symbol;Acc:VGNC:79856]
ENSMMUG0000001944 chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]
ENSMMUG0000002033 serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]
ENSMMUG0000002124 beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]
ENSMMUG0000002181 SFI1 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]
ENSMMUG0000002278 AT-rich interaction domain 3A [Source:VGNC Symbol;Acc:VGNC:69930]
ENSMMUG0000002324
ENSMMUG0000002376 scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]
ENSMMUG0000002377 Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]
ENSMMUG0000002382 serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]
ENSMMUG0000002384 IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]
ENSMMUG0000002397 GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]
ENSMMUG0000002715 solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]
ENSMMUG0000002810 TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]
ENSMMUG0000002822 unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]
ENSMMUG0000002923 colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]
ENSMMUG0000002926 mediator complex subunit 24 [Source:NCBI gene;Acc:699536]
ENSMMUG0000002959 helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]
ENSMMUG0000002974 acid phosphatase 5, tartrate resistant [Source:VGNC Symbol;Acc:VGNC:69384]
ENSMMUG0000003298 ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]
ENSMMUG0000003303 Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]
ENSMMUG0000003436 tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]
ENSMMUG0000003437 signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]
ENSMMUG0000003439 nuclear factor I C [Source:VGNC Symbol;Acc:VGNC:75336]
ENSMMUG0000003539 glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]
ENSMMUG0000003612 SPC24 component of NDC80 kinetochore complex [Source:VGNC Symbol;Acc:VGNC:78002]
ENSMMUG0000003819 nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]
ENSMMUG0000004283 calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]
ENSMMUG0000004337 zinc finger protein 790 [Source:VGNC Symbol;Acc:VGNC:79930]
ENSMMUG0000004498 protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]
ENSMMUG0000004765 Sp2 transcription factor [Source:VGNC Symbol;Acc:VGNC:77845]
ENSMMUG0000004794 DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]
ENSMMUG0000004820 pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]
ENSMMUG0000004843 sodium voltage-gated channel beta subunit 1 [Source:VGNC Symbol;Acc:VGNC:76983]
ENSMMUG0000005236 zinc finger protein 709 [Source:NCBI gene;Acc:717515]
ENSMMUG0000005432 clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]
ENSMMUG0000005455 ring finger protein 213 [Source:VGNC Symbol;Acc:VGNC:76734]
ENSMMUG0000005548 N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]
ENSMMUG0000005552 PAF1 homolog, Paf1/RNA polymerase II complex component [Source:VGNC Symbol;Acc:VGNC:81492]

ENSMMUG0000005554 mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]
ENSMMUG0000005666 phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]
ENSMMUG0000005698 alkaline ceramidase 1 [Source:VGNC Symbol;Acc:VGNC:69460]
ENSMMUG0000005729 GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]
ENSMMUG0000005737 SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]
ENSMMUG0000006066 phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]
ENSMMUG0000006086 pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]
ENSMMUG0000006090 C-C motif chemokine receptor 10 [Source:VGNC Symbol;Acc:VGNC:82119]
ENSMMUG0000006091 contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]
ENSMMUG0000006093 enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]
ENSMMUG0000006101 myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]
ENSMMUG0000006738 L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]
ENSMMUG0000006853 crystallin beta B2 [Source:NCBI gene;Acc:100144420]
ENSMMUG0000007200 NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]
ENSMMUG0000007201 PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]
ENSMMUG0000007379 phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]
ENSMMUG0000007401 arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]
ENSMMUG0000007423 transcription factor Dp-1 [Source:NCBI gene;Acc:715345]
ENSMMUG0000007538 transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]
ENSMMUG0000007726 synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]
ENSMMUG0000007729 ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]
ENSMMUG0000007799 LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]
ENSMMUG0000007925 serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]
ENSMMUG0000008091 RUN domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77101]
ENSMMUG0000008195 TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]
ENSMMUG0000008200 Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]
ENSMMUG0000008538 microfibril associated protein 4 [Source:VGNC Symbol;Acc:VGNC:74710]
ENSMMUG0000008784 lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]
ENSMMUG0000009176 calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]
ENSMMUG0000009199 glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]
ENSMMUG0000009377 tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]
ENSMMUG0000009381 WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]
ENSMMUG0000009567 glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]
ENSMMUG0000009682 R3H domain containing 4 [Source:VGNC Symbol;Acc:VGNC:76554]
ENSMMUG0000009684 kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]
ENSMMUG0000009825 zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]
ENSMMUG0000009884 hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]
ENSMMUG0000009886 Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]
ENSMMUG0000009887 MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]
ENSMMUG0000009889 PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]
ENSMMUG0000009890 FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]
ENSMMUG0000009953 ninein like [Source:VGNC Symbol;Acc:VGNC:75273]
ENSMMUG0000009960 cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]
ENSMMUG0000009988 transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]
ENSMMUG0000009995 arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]
ENSMMUG00000010028 leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]
ENSMMUG00000010142 glutamate ionotropic receptor NMDA type subunit 2A [Source:VGNC Symbol;Acc:VGNC:73282]
ENSMMUG00000010363 ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]
ENSMMUG00000010536 discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]
ENSMMUG00000010556 Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]
ENSMMUG00000010614 C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]

ENSMMUG00000010678 oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]
ENSMMUG00000010824 SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]
ENSMMUG00000010826 ral guanine nucleotide dissociation stimulator like 3 [Source:VGNC Symbol;Acc:VGNC:76869]
ENSMMUG00000010837 VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]
ENSMMUG00000010886 strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]
ENSMMUG00000010922 hyaluronan synthase 3 [Source:VGNC Symbol;Acc:VGNC:73348]
ENSMMUG00000011064 synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]
ENSMMUG00000011330 neuronal PAS domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75377]
ENSMMUG00000011332 Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]
ENSMMUG00000011344 solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]
ENSMMUG00000011411 sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]
ENSMMUG00000011413 acid sensing ion channel subunit 2 [Source:VGNC Symbol;Acc:VGNC:70241]
ENSMMUG00000011427 syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]
ENSMMUG00000011588 myosin IXB [Source:HGNC Symbol;Acc:HGNC:7609]
ENSMMUG00000011627 interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]
ENSMMUG00000011798 eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]
ENSMMUG00000011951 KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]
ENSMMUG00000012001 transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]
ENSMMUG00000012007 PH domain and leucine rich repeat protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:81494]
ENSMMUG00000012228 ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]
ENSMMUG00000012466 BCL2 binding component 3 [Source:NCBI gene;Acc:717955]
ENSMMUG00000012523 flotillin 2 [Source:NCBI gene;Acc:114669752]
ENSMMUG00000012787 acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]
ENSMMUG00000012797 zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]
ENSMMUG00000012801 zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]
ENSMMUG00000012841 kallikrein 3 [Source:NCBI gene;Acc:719444]
ENSMMUG00000012856 nuclear FMR1 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75422]
ENSMMUG00000012937 proline rich 12 [Source:NCBI gene;Acc:719344]
ENSMMUG00000012938 SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]
ENSMMUG00000013048 junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]
ENSMMUG00000013477 creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]
ENSMMUG00000013560 calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]
ENSMMUG00000013646 unk zinc finger [Source:VGNC Symbol;Acc:VGNC:79803]
ENSMMUG00000013671 elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]
ENSMMUG00000013713 beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]
ENSMMUG00000013967 TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]
ENSMMUG00000014010 RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]
ENSMMUG00000014032 proline rich 36 [Source:NCBI gene;Acc:710443]
ENSMMUG00000014240 thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]
ENSMMUG00000014273 cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]
ENSMMUG00000014349 integrin subunit alpha X [Source:NCBI gene;Acc:100427850]
ENSMMUG00000014409 ankyrin repeat domain 13B [Source:VGNC Symbol;Acc:VGNC:69708]
ENSMMUG00000014411 coronin 6 [Source:NCBI gene;Acc:711818]
ENSMMUG00000015303 ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]
ENSMMUG00000015306 calponin 2 [Source:NCBI gene;Acc:721164]
ENSMMUG00000015476 unc-13 homolog A [Source:NCBI gene;Acc:720000]
ENSMMUG00000015513 CUGBP Elav-like family member 5 [Source:NCBI gene;Acc:721694]
ENSMMUG00000015572 GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]
ENSMMUG00000015744 zinc finger protein 302 [Source:NCBI gene;Acc:706279]
ENSMMUG00000015908 RB binding protein 6, ubiquitin ligase [Source:VGNC Symbol;Acc:VGNC:76677]
ENSMMUG00000015952 katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]

ENSMMUG00000015999 interferon induced protein 35 [Source:VGNC Symbol;Acc:VGNC:73564]
ENSMMUG00000016085 KxDL motif containing 1 [Source:NCBI gene;Acc:720235]
ENSMMUG00000016143 sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]
ENSMMUG00000016401 SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]
ENSMMUG00000016404 chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]
ENSMMUG00000016414 ectonucleotide pyrophosphatase/phosphodiesterase 7 [Source:VGNC Symbol;Acc:VGNC:72090]
ENSMMUG00000016417 chromobox 8 [Source:NCBI gene;Acc:717514]
ENSMMUG00000016448 DLG associated protein 4 [Source:NCBI gene;Acc:702928]
ENSMMUG00000016457 DM1 protein kinase [Source:NCBI gene;Acc:715328]
ENSMMUG00000016549 matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]
ENSMMUG00000016796 reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]
ENSMMUG00000016797 tubulin gamma 1 [Source:NCBI gene;Acc:710756]
ENSMMUG00000017036 nicalin [Source:VGNC Symbol;Acc:VGNC:75032]
ENSMMUG00000017224 catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]
ENSMMUG00000017242 MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]
ENSMMUG00000017256 calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]
ENSMMUG00000017561 solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]
ENSMMUG00000017654 arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]
ENSMMUG00000017758 mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]
ENSMMUG00000017822 periplakin [Source:VGNC Symbol;Acc:VGNC:76240]
ENSMMUG00000017906 DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]
ENSMMUG00000017927 protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]
ENSMMUG00000017930 striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]
ENSMMUG00000017971 nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]
ENSMMUG00000018137 MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]
ENSMMUG00000018255 nuclear factor of activated T cells 5 [Source:VGNC Symbol;Acc:VGNC:75325]
ENSMMUG00000018648 zinc finger protein 594 [Source:NCBI gene;Acc:711492]
ENSMMUG00000018719 nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]
ENSMMUG00000018720 cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]
ENSMMUG00000018932 adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]
ENSMMUG00000018967 ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]
ENSMMUG00000018986 seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]
ENSMMUG00000019032 EMAP like 2 [Source:NCBI gene;Acc:715009]
ENSMMUG00000019095 TBC1 domain family member 24 [Source:NCBI gene;Acc:697106]
ENSMMUG00000019314 vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]
ENSMMUG00000019369 pleckstrin homology and RhoGEF domain containing G2 [Source:VGNC Symbol;Acc:VGNC:76133]
ENSMMUG00000019418 erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]
ENSMMUG00000019500 methenyltetrahydrofolate synthetase domain containing [Source:VGNC Symbol;Acc:VGNC:75023]
ENSMMUG00000019667 TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]
ENSMMUG00000019668 armadillo repeat containing 6 [Source:VGNC Symbol;Acc:VGNC:69899]
ENSMMUG00000019925 DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]
ENSMMUG00000019965 methyl-CpG binding domain protein 3 like 1 [Source:VGNC Symbol;Acc:VGNC:74513]
ENSMMUG00000019966 zinc finger protein 557 [Source:NCBI gene;Acc:100424983]
ENSMMUG00000020172 KIAA1755 [Source:VGNC Symbol;Acc:VGNC:73942]
ENSMMUG00000020226 WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]
ENSMMUG00000020254 exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]
ENSMMUG00000020258 E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]
ENSMMUG00000020462 CD300e molecule [Source:NCBI gene;Acc:114673189]
ENSMMUG00000020489 HscB mitochondrial iron-sulfur cluster cochaperone [Source:VGNC Symbol;Acc:VGNC:73454]
ENSMMUG00000020583 FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]
ENSMMUG00000020668 cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]

ENSMMUG00000020799 BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]
ENSMMUG00000020868 homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]
ENSMMUG00000021408 family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]
ENSMMUG00000021476 BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]
ENSMMUG00000021477 ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]
ENSMMUG00000021486 secernin 2 [Source:NCBI gene;Acc:694571]
ENSMMUG00000021553 dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]
ENSMMUG00000021554 PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]
ENSMMUG00000022100 midnolin [Source:VGNC Symbol;Acc:VGNC:82186]
ENSMMUG00000022116 PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]
ENSMMUG00000022207 phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]
ENSMMUG00000022282 collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]
ENSMMUG00000022345
ENSMMUG00000022741 WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]
ENSMMUG00000022931 NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]
ENSMMUG00000023263 mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]
ENSMMUG00000023286 UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]
ENSMMUG00000023303 ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]
ENSMMUG00000023403 GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]
ENSMMUG00000023622 BCR activator of RhoGEF and GTPase [Source:NCBI gene;Acc:709258]
ENSMMUG00000023717 MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]
ENSMMUG00000025050 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000028471 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]
ENSMMUG00000028733 RAS related [Source:VGNC Symbol;Acc:VGNC:76937]
ENSMMUG00000028771 Yip1 interacting factor homolog B, membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:79852]
ENSMMUG00000028785 zinc finger protein 146 [Source:VGNC Symbol;Acc:VGNC:78846]
ENSMMUG00000028906 Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]
ENSMMUG00000028907 insulin receptor [Source:NCBI gene;Acc:706009]
ENSMMUG00000028947 complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]
ENSMMUG00000028948 azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]
ENSMMUG00000030279 A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]
ENSMMUG00000031391 RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]
ENSMMUG00000038702 ZFP36 ring finger protein [Source:NCBI gene;Acc:722000]
ENSMMUG00000038989 erythropoietin receptor [Source:NCBI gene;Acc:714546]
ENSMMUG00000039205
ENSMMUG00000039266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000039943 adenylate cyclase 9 [Source:NCBI gene;Acc:706789]
ENSMMUG00000040268 phosphatidylinositol transfer protein alpha [Source:NCBI gene;Acc:721228]
ENSMMUG00000042407
ENSMMUG00000042855 zinc finger SWIM-type containing 1 [Source:NCBI gene;Acc:717180]
ENSMMUG00000043134 coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]
ENSMMUG00000043738
ENSMMUG00000044817 nucleoporin 62 [Source:NCBI gene;Acc:100426308]
ENSMMUG00000045203
ENSMMUG00000045256 cellular communication network factor 5 [Source:NCBI gene;Acc:717872]
ENSMMUG00000046099 chromosome 19 C19orf81 homolog [Source:NCBI gene;Acc:719661]
ENSMMUG00000046417 chromobox 2 [Source:NCBI gene;Acc:717462]
ENSMMUG00000046918
ENSMMUG00000047452
ENSMMUG00000048190 U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]
ENSMMUG00000048204 ephrin B3 [Source:NCBI gene;Acc:716257]

ENSMMUG00000048207 syntaxin 4 [Source:NCBI gene;Acc:704880]
ENSMMUG00000048215
ENSMMUG00000048463 apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]
ENSMMUG00000048566 MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]
ENSMMUG00000049130
ENSMMUG00000049542
ENSMMUG00000049649 proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]
ENSMMUG00000049703 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050057
ENSMMUG00000050263 TBC1 domain family member 26-like [Source:NCBI gene;Acc:100426631]
ENSMMUG00000050436
ENSMMUG00000050456 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050739
ENSMMUG00000050793 N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]
ENSMMUG00000050799
ENSMMUG00000051201 zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]
ENSMMUG00000051226 FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]
ENSMMUG00000051323 caspase-14-like [Source:NCBI gene;Acc:702430]
ENSMMUG00000051343
ENSMMUG00000051420 homeobox B5 [Source:NCBI gene;Acc:696732]
ENSMMUG00000051537
ENSMMUG00000051879 CAP-Gly domain containing linker protein 3 [Source:NCBI gene;Acc:712058]
ENSMMUG00000051892 fms related receptor tyrosine kinase 3 ligand [Source:NCBI gene;Acc:719239]
ENSMMUG00000052324 MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]
ENSMMUG00000052505 homeobox B9 [Source:NCBI gene;Acc:106994009]
ENSMMUG00000052607
ENSMMUG00000052851 solute carrier family 7 member 5 [Source:NCBI gene;Acc:695886]
ENSMMUG00000053083 C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]
ENSMMUG00000053220 olfactory receptor 111 [Source:NCBI gene;Acc:719077]
ENSMMUG00000053257 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000053329
ENSMMUG00000053364
ENSMMUG00000053457 caspase 14 [Source:NCBI gene;Acc:718049]
ENSMMUG00000053937
ENSMMUG00000054052 sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]
ENSMMUG00000054055 zinc finger protein 93 [Source:NCBI gene;Acc:720434]
ENSMMUG00000054090
ENSMMUG00000054111 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054472
ENSMMUG00000054473 activating transcription factor 5 [Source:NCBI gene;Acc:719150]
ENSMMUG00000054512
ENSMMUG00000054637 tubulin polymerization promoting protein family member 3 [Source:NCBI gene;Acc:100429881]
ENSMMUG00000054784
ENSMMUG00000054803
ENSMMUG00000055048
ENSMMUG00000055324 homeobox B7 [Source:NCBI gene;Acc:697089]
ENSMMUG00000055379
ENSMMUG00000055747 cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]
ENSMMUG00000055775 transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]
ENSMMUG00000055811
ENSMMUG00000055893

ENSMMUG00000055897
ENSMMUG00000055973 phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]
ENSMMUG00000055976 CD99 antigen [Source:NCBI gene;Acc:106995376]
ENSMMUG00000056093 shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]
ENSMMUG00000056109 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056248
ENSMMUG00000056339
ENSMMUG00000056437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056529 synaptotagmin 3 [Source:NCBI gene;Acc:719650]
ENSMMUG00000056555
ENSMMUG00000056777 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056778
ENSMMUG00000056945
ENSMMUG00000056950
ENSMMUG00000057038
ENSMMUG00000057157
ENSMMUG00000057160
ENSMMUG00000057231 T-box transcription factor 21 [Source:NCBI gene;Acc:694044]
ENSMMUG00000057329
ENSMMUG00000057345 calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]
ENSMMUG00000057361 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000057447
ENSMMUG00000057454 transmembrane protein 160 [Source:NCBI gene;Acc:716996]
ENSMMUG00000057632
ENSMMUG00000057682
ENSMMUG00000057687
ENSMMUG00000058042 heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]
ENSMMUG00000058095 visual system homeobox 1 [Source:NCBI gene;Acc:715973]
ENSMMUG00000058110
ENSMMUG00000058137 zinc finger protein 816 [Source:NCBI gene;Acc:720058]
ENSMMUG00000058241 leucine rich repeat and Ig domain containing 3 [Source:NCBI gene;Acc:721484]
ENSMMUG00000058254
ENSMMUG00000058437
ENSMMUG00000058566
ENSMMUG00000058592
ENSMMUG00000058621
ENSMMUG00000058715
ENSMMUG00000058758
ENSMMUG00000058907
ENSMMUG00000058916
ENSMMUG00000058928 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059087
ENSMMUG00000059175
ENSMMUG00000059229 CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]
ENSMMUG00000059292
ENSMMUG00000059302 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059321
ENSMMUG00000059371
ENSMMUG00000059374
ENSMMUG00000059778
ENSMMUG00000059897 myosin light chain 9 [Source:NCBI gene;Acc:709784]

ENSMMUG00000060000
ENSMMUG00000060270
ENSMMUG00000060289
ENSMMUG00000060497
ENSMMUG00000060502
ENSMMUG00000060767
ENSMMUG00000060780
ENSMMUG00000060879 homeobox B13 [Source:NCBI gene;Acc:697572]
ENSMMUG00000060967
ENSMMUG00000061335
ENSMMUG00000061836
ENSMMUG00000061940
ENSMMUG00000061951
ENSMMUG00000061995
ENSMMUG00000062037 stannin [Source:NCBI gene;Acc:711909]
ENSMMUG00000062178 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062273 dephospho-CoA kinase domain containing [Source:NCBI gene;Acc:715841]
ENSMMUG00000062283 homeobox B6 [Source:NCBI gene;Acc:106994013]
ENSMMUG00000062296 potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]
ENSMMUG00000062583 olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]
ENSMMUG00000062755
ENSMMUG00000063383
ENSMMUG00000063622 mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]
ENSMMUG00000063779
ENSMMUG00000063914
ENSMMUG00000063988
ENSMMUG00000064026 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064052 CD300 molecule like family member d [Source:NCBI gene;Acc:703142]
ENSMMUG00000064095
ENSMMUG00000064146 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064391
ENSMMUG00000064532 mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]
ENSMMUG00000064612 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064650 SPEM family member 3 [Source:NCBI gene;Acc:106993878]
ENSMMUG00000064723 gasdermin A [Source:NCBI gene;Acc:698841]
ENSMMUG00000064920
ENSMMUG00000065025
ENSMMUG00000065054 G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]
ENSMMUG00000065129
ENSMMUG00000065208

Survivors – SD2 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG0000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]
ENSMMUG0000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]
ENSMMUG0000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]
ENSMMUG0000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]
ENSMMUG0000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]
ENSMMUG0000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]
ENSMMUG0000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]
ENSMMUG0000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]
ENSMMUG0000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]
ENSMMUG0000000776	zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]
ENSMMUG0000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]
ENSMMUG0000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]
ENSMMUG0000000863	dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]
ENSMMUG0000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]
ENSMMUG0000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]
ENSMMUG0000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]
ENSMMUG0000000958	aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]
ENSMMUG0000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]
ENSMMUG0000001088	patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]
ENSMMUG0000001151	microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]
ENSMMUG0000001273	clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]
ENSMMUG0000001338	antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]
ENSMMUG0000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]
ENSMMUG0000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]
ENSMMUG0000001456	MCF.2 cell line derived transforming sequence-like 2 [Source:VGNC Symbol;Acc:VGNC:74624]
ENSMMUG0000001547	zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]
ENSMMUG0000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]
ENSMMUG0000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]
ENSMMUG0000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]
ENSMMUG0000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]
ENSMMUG0000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]
ENSMMUG0000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]
ENSMMUG0000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]
ENSMMUG0000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]
ENSMMUG0000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]
ENSMMUG0000002411	drebrin like [Source:NCBI gene;Acc:720621]
ENSMMUG0000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]
ENSMMUG0000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]
ENSMMUG0000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]
ENSMMUG0000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]
ENSMMUG0000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]
ENSMMUG0000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]
ENSMMUG0000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]
ENSMMUG0000002741	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]
ENSMMUG0000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]
ENSMMUG0000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]
ENSMMUG0000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]
ENSMMUG0000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]

ENSMMUG00000003133 interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]
ENSMMUG00000003167 cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]
ENSMMUG00000003267 zinc finger protein 362 [Source:NCBI gene;Acc:710013]
ENSMMUG00000003348 neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]
ENSMMUG00000003457 protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]
ENSMMUG00000003484 tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]
ENSMMUG00000003572 nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]
ENSMMUG00000003598 tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]
ENSMMUG00000003684 ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]
ENSMMUG00000003697 inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]
ENSMMUG00000003833 Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]
ENSMMUG00000004002 CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]
ENSMMUG00000004042 Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]
ENSMMUG00000004103 collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]
ENSMMUG00000004149 eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]
ENSMMUG00000004222 thromboxane A synthase 1 [Source:VGNC Symbol;Acc:VGNC:78278]
ENSMMUG00000004257 beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]
ENSMMUG00000004273 dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]
ENSMMUG00000004309 APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]
ENSMMUG00000004376 calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]
ENSMMUG00000004512 Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]
ENSMMUG00000004576 C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]
ENSMMUG00000004668 receptor tyrosine kinase like orphan receptor 1 [Source:VGNC Symbol;Acc:VGNC:76715]
ENSMMUG00000004748 zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]
ENSMMUG00000004774 maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]
ENSMMUG00000004797 CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]
ENSMMUG00000004801 COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]
ENSMMUG00000005070 ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]
ENSMMUG00000005106 unc-45 myosin chaperone A [Source:VGNC Symbol;Acc:VGNC:79858]
ENSMMUG00000005108 RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]
ENSMMUG00000005293 G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]
ENSMMUG00000005294 casein kinase 2 beta [Source:NCBI gene;Acc:715807]
ENSMMUG00000005297 proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]
ENSMMUG00000005302 BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]
ENSMMUG00000005667 fumarate hydratase [Source:VGNC Symbol;Acc:VGNC:72659]
ENSMMUG00000005668 kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]
ENSMMUG00000005745 EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]
ENSMMUG00000005964 CMP-N-acetylneuraminic acid hydroxylase [Source:NCBI gene;Acc:574186]
ENSMMUG00000006029 odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]
ENSMMUG00000006284 adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]
ENSMMUG00000006285 antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]
ENSMMUG00000006530 ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]
ENSMMUG00000006596 CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]
ENSMMUG00000006659 aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]
ENSMMUG00000006766 RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]
ENSMMUG00000006786 protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]
ENSMMUG00000006836 chloride channel accessory 1 [Source:NCBI gene;Acc:574295]
ENSMMUG00000006841 myoferlin [Source:VGNC Symbol;Acc:VGNC:75061]
ENSMMUG00000006851 SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]
ENSMMUG00000006855 acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]
ENSMMUG00000006997 thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]

ENSMMUG0000007140 MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]
ENSMMUG0000007366
ENSMMUG0000007387 G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]
ENSMMUG0000007422 spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]
ENSMMUG0000007528 chordin [Source:VGNC Symbol;Acc:VGNC:71042]
ENSMMUG0000007534 protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]
ENSMMUG0000007773 solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]
ENSMMUG0000008007 multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]
ENSMMUG0000008031 zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]
ENSMMUG0000008070 YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]
ENSMMUG0000008197 netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]
ENSMMUG0000008218 ADAMTS like 4 [Source:VGNC Symbol;Acc:VGNC:69480]
ENSMMUG0000008379 adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]
ENSMMUG0000008383 major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]
ENSMMUG0000008385 NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]
ENSMMUG0000008518 phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]
ENSMMUG0000008623 coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]
ENSMMUG0000008791 CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]
ENSMMUG0000008828 BEN domain containing 5 [Source:NCBI gene;Acc:711150]
ENSMMUG0000008854 natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]
ENSMMUG0000009040 cornulin [Source:VGNC Symbol;Acc:VGNC:71397]
ENSMMUG0000009184 myelin protein zero like 1 [Source:NCBI gene;Acc:698437]
ENSMMUG0000009197 myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]
ENSMMUG0000009441 abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]
ENSMMUG0000009499 mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]
ENSMMUG0000009564 NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]
ENSMMUG0000009794 protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]
ENSMMUG00000010137 microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]
ENSMMUG00000010141 family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]
ENSMMUG00000010180 PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]
ENSMMUG00000010308 cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]
ENSMMUG00000010309 septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]
ENSMMUG00000010313 kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]
ENSMMUG00000010314 HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:VGNC Symbol;Acc:VGNC:73238]
ENSMMUG00000010316 HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]
ENSMMUG00000010318 phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]
ENSMMUG00000010466 solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]
ENSMMUG00000011155 FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]
ENSMMUG00000011328 cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]
ENSMMUG00000011440 neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]
ENSMMUG00000011513 versican [Source:VGNC Symbol;Acc:VGNC:79445]
ENSMMUG00000011661 integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]
ENSMMUG00000011774 integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]
ENSMMUG00000011789 hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]
ENSMMUG00000011878 poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]
ENSMMUG00000011914 prospero homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76427]
ENSMMUG00000012356 serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]
ENSMMUG00000012405 transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]
ENSMMUG00000012526 glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]
ENSMMUG00000012538 ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]
ENSMMUG00000012635 zyxin [Source:VGNC Symbol;Acc:VGNC:78917]

ENSMMUG00000012697 AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]
ENSMMUG00000013044 selectin P [Source:VGNC Symbol;Acc:VGNC:77157]
ENSMMUG00000013146 claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]
ENSMMUG00000013150 MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]
ENSMMUG00000013330 ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]
ENSMMUG00000013385 elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]
ENSMMUG00000013387 cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]
ENSMMUG00000013450 TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]
ENSMMUG00000013460 RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]
ENSMMUG00000013644 potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]
ENSMMUG00000013696 myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]
ENSMMUG00000013871 WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]
ENSMMUG00000014045 protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]
ENSMMUG00000014046 SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]
ENSMMUG00000014076 AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]
ENSMMUG00000014138 forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]
ENSMMUG00000014291 SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]
ENSMMUG00000014658 ninein [Source:VGNC Symbol;Acc:VGNC:75177]
ENSMMUG00000014674 golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]
ENSMMUG00000014699
ENSMMUG00000014715 fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]
ENSMMUG00000014766 neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]
ENSMMUG00000014771 zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]
ENSMMUG00000014868 OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]
ENSMMUG00000014874 GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]
ENSMMUG00000014876 nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]
ENSMMUG00000015097 tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]
ENSMMUG00000015115 terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]
ENSMMUG00000015329 MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]
ENSMMUG00000015416 bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]
ENSMMUG00000015479 tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]
ENSMMUG00000015487 pericentriolar material 1 [Source:VGNC Symbol;Acc:VGNC:75781]
ENSMMUG00000015555 ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]
ENSMMUG00000015685 zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]
ENSMMUG00000015686 abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]
ENSMMUG00000015693 lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]
ENSMMUG00000015865 arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]
ENSMMUG00000015866 vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]
ENSMMUG00000016069 cubilin [Source:VGNC Symbol;Acc:VGNC:82132]
ENSMMUG00000016273 maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]
ENSMMUG00000016476 TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]
ENSMMUG00000016480 CaM kinase like vesicle associated [Source:VGNC Symbol;Acc:VGNC:70663]
ENSMMUG00000016579 selectin L [Source:NCBI gene;Acc:701419]
ENSMMUG00000016580 selectin E [Source:VGNC Symbol;Acc:VGNC:77156]
ENSMMUG00000016582 chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]
ENSMMUG00000017056 Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]
ENSMMUG00000017189 regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]
ENSMMUG00000017261 galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]
ENSMMUG00000017266 UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]
ENSMMUG00000017501 N-acylethanolamine acid amidase [Source:VGNC Symbol;Acc:VGNC:75068]
ENSMMUG00000017510 membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]

ENSMMUG00000017605 mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]
ENSMMUG00000017627 B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]
ENSMMUG00000017660
ENSMMUG00000017701 myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]
ENSMMUG00000018246 transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]
ENSMMUG00000018345 phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]
ENSMMUG00000018549 zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]
ENSMMUG00000018619 DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]
ENSMMUG00000018743 ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]
ENSMMUG00000018790 activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]
ENSMMUG00000019085 3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]
ENSMMUG00000019089 centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]
ENSMMUG00000019246 regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]
ENSMMUG00000019304 indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]
ENSMMUG00000019363 synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]
ENSMMUG00000019526 BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]
ENSMMUG00000019528 adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]
ENSMMUG00000019536 potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]
ENSMMUG00000019830 Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]
ENSMMUG00000019833 Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]
ENSMMUG00000019991 dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]
ENSMMUG00000020185 voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]
ENSMMUG00000020186 solute carrier family 20 member 2 [Source:VGNC Symbol;Acc:VGNC:77416]
ENSMMUG00000020534 p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]
ENSMMUG00000020586 serpin family A member 12 [Source:VGNC Symbol;Acc:VGNC:77266]
ENSMMUG00000020603 pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]
ENSMMUG00000020604 HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]
ENSMMUG00000020683 RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]
ENSMMUG00000020726 dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]
ENSMMUG00000020979 inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]
ENSMMUG00000020980 ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]
ENSMMUG00000021044 afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]
ENSMMUG00000021073 RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]
ENSMMUG00000021075 Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]
ENSMMUG00000021080 basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]
ENSMMUG00000021157 TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]
ENSMMUG00000021449 vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]
ENSMMUG00000021498 L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]
ENSMMUG00000021634 TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]
ENSMMUG00000021972 diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]
ENSMMUG00000021988 N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]
ENSMMUG00000022003 multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]
ENSMMUG00000022247 osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]
ENSMMUG00000022407 serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]
ENSMMUG00000022409 solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]
ENSMMUG00000022451 proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]
ENSMMUG00000022728 zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]
ENSMMUG00000022730 cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]
ENSMMUG00000022884 glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]
ENSMMUG00000022921 solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]
ENSMMUG00000023016 jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]

ENSMMUG00000023060 A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]
ENSMMUG00000023139 small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]
ENSMMUG00000023282 aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]
ENSMMUG00000023310 tetraspanin 12 [Source:VGNC Symbol;Acc:VGNC:79328]
ENSMMUG00000023335 ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]
ENSMMUG00000023449 mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]
ENSMMUG00000023681 nucleolar protein 9 [Source:VGNC Symbol;Acc:VGNC:75263]
ENSMMUG00000023816 semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]
ENSMMUG00000024234 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000029034 defensin beta 136 [Source:VGNC Symbol;Acc:VGNC:71826]
ENSMMUG00000029883 olfactory receptor, family 2, subfamily J, member 3 [Source:NCBI gene;Acc:708943]
ENSMMUG00000031279 torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]
ENSMMUG00000031291 regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]
ENSMMUG00000031534 ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]
ENSMMUG00000032249 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]
ENSMMUG00000032429 forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]
ENSMMUG00000035943 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037243 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037413 U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]
ENSMMUG00000038067
ENSMMUG00000038524 olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]
ENSMMUG00000039009
ENSMMUG00000039101 pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]
ENSMMUG00000039292
ENSMMUG00000040274 MAGE family member A4 [Source:NCBI gene;Acc:710825]
ENSMMUG00000040393 zinc finger protein 655 [Source:NCBI gene;Acc:718811]
ENSMMUG00000041376 G antigen 10 [Source:NCBI gene;Acc:693330]
ENSMMUG00000042472 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000042951 signal recognition particle 19 [Source:NCBI gene;Acc:693829]
ENSMMUG00000043675 Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]
ENSMMUG00000044257 MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]
ENSMMUG00000044429 glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]
ENSMMUG00000045093 cyclin B3 [Source:NCBI gene;Acc:694534]
ENSMMUG00000045513
ENSMMUG00000045609 CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]
ENSMMUG00000045970 thiamine triphosphatase [Source:NCBI gene;Acc:714403]
ENSMMUG00000046186 stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]
ENSMMUG00000046550 coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]
ENSMMUG00000046969 Fc receptor like 3 [Source:NCBI gene;Acc:718801]
ENSMMUG00000048066 trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]
ENSMMUG00000048621 enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]
ENSMMUG00000048824 eva-1 homolog C [Source:NCBI gene;Acc:708681]
ENSMMUG00000049021 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049267
ENSMMUG00000049494
ENSMMUG00000049678
ENSMMUG00000049735 allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]
ENSMMUG00000049866
ENSMMUG00000050339 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050405
ENSMMUG00000050419 ADAM metallopeptidase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]

ENSMMUG00000050465 ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]
ENSMMUG00000050495
ENSMMUG00000050505 small integral membrane protein 4 [Source:NCBI gene;Acc:696553]
ENSMMUG00000050549 lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]
ENSMMUG00000050608
ENSMMUG00000050868
ENSMMUG00000051037
ENSMMUG00000051645
ENSMMUG00000051677
ENSMMUG00000051816 keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]
ENSMMUG00000051972 zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]
ENSMMUG00000051975
ENSMMUG00000052073
ENSMMUG00000052252 protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]
ENSMMUG00000052348
ENSMMUG00000052474
ENSMMUG00000052777
ENSMMUG00000052780
ENSMMUG00000052891
ENSMMUG00000053106
ENSMMUG00000053324 lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]
ENSMMUG00000053367 secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]
ENSMMUG00000053481
ENSMMUG00000053516
ENSMMUG00000053737 BarH like homeobox 2 [Source:NCBI gene;Acc:696831]
ENSMMUG00000053790
ENSMMUG00000053837
ENSMMUG00000053984
ENSMMUG00000054158 acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]
ENSMMUG00000054414
ENSMMUG00000054568
ENSMMUG00000054686
ENSMMUG00000054904 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054960
ENSMMUG00000055018 sushi domain containing 6 [Source:NCBI gene;Acc:712719]
ENSMMUG00000055038
ENSMMUG00000055096
ENSMMUG00000055121 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055199 cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]
ENSMMUG00000055322 EPH receptor A1 [Source:NCBI gene;Acc:706295]
ENSMMUG00000055556
ENSMMUG00000055914
ENSMMUG00000056024
ENSMMUG00000056058 C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]
ENSMMUG00000056266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056376
ENSMMUG00000056522
ENSMMUG00000056906
ENSMMUG00000057196 pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]
ENSMMUG00000057539
ENSMMUG00000057702

ENSMMUG00000057953
ENSMMUG00000058002 zinc finger protein 669-like [Source:NCBI gene;Acc:696282]
ENSMMUG00000058013 melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]
ENSMMUG00000058176 b-defensin2-like [Source:NCBI gene;Acc:100169969]
ENSMMUG00000058187
ENSMMUG00000058423
ENSMMUG00000058432 zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]
ENSMMUG00000058534
ENSMMUG00000058574
ENSMMUG00000058817
ENSMMUG00000059318 urocortin 2 [Source:NCBI gene;Acc:106996925]
ENSMMUG00000059472 filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]
ENSMMUG00000059671
ENSMMUG00000060063
ENSMMUG00000060218 chemokine (C motif) ligand 1 [Source:NCBI gene;Acc:574367]
ENSMMUG00000060273 mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]
ENSMMUG00000060576
ENSMMUG00000060760
ENSMMUG00000060795
ENSMMUG00000060812 autophagy related 12 [Source:NCBI gene;Acc:696765]
ENSMMUG00000060901
ENSMMUG00000061031
ENSMMUG00000061079 golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]
ENSMMUG00000061098
ENSMMUG00000061194
ENSMMUG00000061208 MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]
ENSMMUG00000061318
ENSMMUG00000061684
ENSMMUG00000061785
ENSMMUG00000061816
ENSMMUG00000062063 melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]
ENSMMUG00000062092
ENSMMUG00000062217 HD domain containing 3 [Source:NCBI gene;Acc:715621]
ENSMMUG00000062326
ENSMMUG00000062394 C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]
ENSMMUG00000062397
ENSMMUG00000062454
ENSMMUG00000062794
ENSMMUG00000062996
ENSMMUG00000063198
ENSMMUG00000063322
ENSMMUG00000063351 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063495
ENSMMUG00000063525
ENSMMUG00000063981 nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]
ENSMMUG00000064173 prokineticin 1 [Source:NCBI gene;Acc:701766]
ENSMMUG00000064242
ENSMMUG00000064707
ENSMMUG00000064824 gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]
ENSMMUG00000065247 opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]
ENSMMUG00000065295

ENSMMUG0000000327 fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]
ENSMMUG0000000375 pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]
ENSMMUG0000000382 sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]
ENSMMUG0000000396 intraflagellar transport 52 [Source:NCBI gene;Acc:694933]
ENSMMUG0000000566
ENSMMUG0000000590 NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]
ENSMMUG0000000700 CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]
ENSMMUG0000000740 spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]
ENSMMUG0000000803 signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]
ENSMMUG0000000874 carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]
ENSMMUG0000001036 coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]
ENSMMUG0000001058 tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]
ENSMMUG0000001083 glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]
ENSMMUG0000001278 vitrin [Source:VGNC Symbol;Acc:VGNC:78773]
ENSMMUG0000001387 p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]
ENSMMUG0000001409 coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]
ENSMMUG0000001472 TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]
ENSMMUG0000001475 transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]
ENSMMUG0000001545 aquaporin 7 [Source:NCBI gene;Acc:702836]
ENSMMUG0000001745 oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]
ENSMMUG0000001761 myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]
ENSMMUG0000001845 DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]
ENSMMUG0000001989 RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]
ENSMMUG0000002267 laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]
ENSMMUG0000002330 ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]
ENSMMUG0000002376 scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]
ENSMMUG0000002384 IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]
ENSMMUG0000002397 GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]
ENSMMUG0000002452 solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]
ENSMMUG0000002483 citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]
ENSMMUG0000002536 calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]
ENSMMUG0000002715 solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]
ENSMMUG0000002810 TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]
ENSMMUG0000002917 single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]
ENSMMUG0000002959 helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]
ENSMMUG0000003005 MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]
ENSMMUG0000003006 serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]
ENSMMUG0000003007 caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]
ENSMMUG0000003098 peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]
ENSMMUG0000003106 SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]
ENSMMUG0000003217 transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]
ENSMMUG0000003298 ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]
ENSMMUG0000003303 Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]
ENSMMUG0000003356 tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]
ENSMMUG0000003436 tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]
ENSMMUG0000003437 signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]
ENSMMUG0000003539 glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]
ENSMMUG0000003568 testis expressed 101 [Source:VGNC Symbol;Acc:VGNC:79869]
ENSMMUG0000003668 GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]
ENSMMUG0000003819 nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]
ENSMMUG0000003874 interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]

ENSMMUG00000003950 nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]
ENSMMUG00000003955 post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]
ENSMMUG00000004022 zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]
ENSMMUG00000004024 cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]
ENSMMUG00000004332 tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]
ENSMMUG00000004435 two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]
ENSMMUG00000004794 DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]
ENSMMUG00000005086 homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]
ENSMMUG00000005208 RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]
ENSMMUG00000005215 Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]
ENSMMUG00000005432 clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]
ENSMMUG00000005482 lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]
ENSMMUG00000005483 ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]
ENSMMUG00000005488 coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]
ENSMMUG00000005504 nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]
ENSMMUG00000005554 mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]
ENSMMUG00000005595 RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]
ENSMMUG00000005666 phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]
ENSMMUG00000005989 GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]
ENSMMUG00000005997 cell division cycle 14B [Source:NCBI gene;Acc:710300]
ENSMMUG00000006066 phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]
ENSMMUG00000006091 contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]
ENSMMUG00000006093 enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]
ENSMMUG00000006180 tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]
ENSMMUG00000006181 WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]
ENSMMUG00000006468 FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]
ENSMMUG00000006568 basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]
ENSMMUG00000006723 solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]
ENSMMUG00000006738 L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]
ENSMMUG00000006853 crystallin beta B2 [Source:NCBI gene;Acc:100144420]
ENSMMUG00000006893 D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]
ENSMMUG00000006929 ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]
ENSMMUG00000006931 kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]
ENSMMUG00000007200 NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]
ENSMMUG00000007201 PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]
ENSMMUG00000007423 transcription factor Dp-1 [Source:NCBI gene;Acc:715345]
ENSMMUG00000007538 transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]
ENSMMUG00000007603 coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]
ENSMMUG00000007925 serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]
ENSMMUG00000008077 dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]
ENSMMUG00000008080 ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]
ENSMMUG00000008195 TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]
ENSMMUG00000008196 aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]
ENSMMUG00000008253 zinc finger protein 267 [Source:NCBI gene;Acc:641441]
ENSMMUG00000008384 solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]
ENSMMUG00000008387 dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]
ENSMMUG00000008474 transforming growth factor beta regulator 1 [Source:VGNC Symbol;Acc:VGNC:78239]
ENSMMUG00000008615 nebulin [Source:NCBI gene;Acc:100430324]
ENSMMUG00000008875 solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]
ENSMMUG00000008923 Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]
ENSMMUG00000009187 calcium voltage-gated channel subunit alpha1 B [Source:VGNC Symbol;Acc:VGNC:70499]

ENSMMUG0000009199 glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]
ENSMMUG0000009201 abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]
ENSMMUG0000009312 leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]
ENSMMUG0000009377 tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]
ENSMMUG0000009414 Sad1 and UNC84 domain containing 5 [Source:VGNC Symbol;Acc:VGNC:78133]
ENSMMUG0000009559 minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]
ENSMMUG0000009567 glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]
ENSMMUG0000009593 WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]
ENSMMUG0000009684 kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]
ENSMMUG0000009788 tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]
ENSMMUG0000009886 Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]
ENSMMUG0000009890 FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]
ENSMMUG0000009960 cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]
ENSMMUG0000009988 transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]
ENSMMUG0000009995 arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]
ENSMMUG0000010028 leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]
ENSMMUG0000010357 cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]
ENSMMUG0000010451 inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]
ENSMMUG0000010521 ADP ribosylation factor like GTPase 5A [Source:VGNC Symbol;Acc:VGNC:70017]
ENSMMUG0000010526 calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]
ENSMMUG0000010592 adducin 2 [Source:VGNC Symbol;Acc:VGNC:69529]
ENSMMUG0000010614 C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]
ENSMMUG0000010824 SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]
ENSMMUG0000010869 nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]
ENSMMUG0000011064 synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]
ENSMMUG0000011209 BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]
ENSMMUG0000011278 cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]
ENSMMUG0000011332 Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]
ENSMMUG0000011411 sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]
ENSMMUG0000011427 syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]
ENSMMUG0000011798 eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]
ENSMMUG0000011817 aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]
ENSMMUG0000011951 KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]
ENSMMUG0000012001 transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]
ENSMMUG0000012039 cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]
ENSMMUG0000012147 collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]
ENSMMUG0000012178 calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]
ENSMMUG0000012228 ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]
ENSMMUG0000012472 phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]
ENSMMUG0000012668 centriolin [Source:VGNC Symbol;Acc:VGNC:71204]
ENSMMUG0000012787 acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]
ENSMMUG0000012797 zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]
ENSMMUG0000012801 zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]
ENSMMUG0000012937 proline rich 12 [Source:NCBI gene;Acc:719344]
ENSMMUG0000012941 nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]
ENSMMUG0000012944 vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]
ENSMMUG0000012959 solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]
ENSMMUG0000013251 xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]
ENSMMUG0000013477 creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]
ENSMMUG0000013671 elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]
ENSMMUG0000013713 beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]

ENSMMUG00000013740 minichromosome maintenance 8 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:74516]
ENSMMUG00000013798 fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]
ENSMMUG00000013830 glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]
ENSMMUG00000013832 ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]
ENSMMUG00000013944 regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]
ENSMMUG00000013967 TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]
ENSMMUG00000014032 proline rich 36 [Source:NCBI gene;Acc:710443]
ENSMMUG00000014123 alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]
ENSMMUG00000014237 lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]
ENSMMUG00000014240 thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]
ENSMMUG00000014265 TAP binding protein like [Source:NCBI gene;Acc:712626]
ENSMMUG00000014273 cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]
ENSMMUG00000014277 ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]
ENSMMUG00000014397 NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]
ENSMMUG00000014530 pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]
ENSMMUG00000014864 VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]
ENSMMUG00000014897 ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]
ENSMMUG00000015468 checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]
ENSMMUG00000015744 zinc finger protein 302 [Source:NCBI gene;Acc:706279]
ENSMMUG00000015931 phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]
ENSMMUG00000016001 vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]
ENSMMUG00000016143 sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]
ENSMMUG00000016323 Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]
ENSMMUG00000016327 coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]
ENSMMUG00000016417 chromobox 8 [Source:NCBI gene;Acc:717514]
ENSMMUG00000016438 protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]
ENSMMUG00000016448 DLG associated protein 4 [Source:NCBI gene;Acc:702928]
ENSMMUG00000016549 matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]
ENSMMUG00000016678 Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]
ENSMMUG00000016796 reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]
ENSMMUG00000016797 tubulin gamma 1 [Source:NCBI gene;Acc:710756]
ENSMMUG00000016890 solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]
ENSMMUG00000017036 nicalin [Source:VGNC Symbol;Acc:VGNC:75032]
ENSMMUG00000017224 catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]
ENSMMUG00000017256 calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]
ENSMMUG00000017561 solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]
ENSMMUG00000017758 mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]
ENSMMUG00000017810 structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]
ENSMMUG00000017822 periplakin [Source:VGNC Symbol;Acc:VGNC:76240]
ENSMMUG00000018034 suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]
ENSMMUG00000018137 MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]
ENSMMUG00000018144 C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]
ENSMMUG00000018237 plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]
ENSMMUG00000018239 centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]
ENSMMUG00000018396 HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]
ENSMMUG00000018485 methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]
ENSMMUG00000018719 nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]
ENSMMUG00000018767 cell division cycle associated 5 [Source:NCBI gene;Acc:721998]
ENSMMUG00000018932 adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]
ENSMMUG00000018967 ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]
ENSMMUG00000018986 seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]

ENSMMUG00000019070 focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]
ENSMMUG00000019314 vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]
ENSMMUG00000019418 erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]
ENSMMUG00000019690 SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]
ENSMMUG00000019839 lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]
ENSMMUG00000019988 homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]
ENSMMUG00000020009 receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]
ENSMMUG00000020020 Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]
ENSMMUG00000020254 exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]
ENSMMUG00000020462 CD300e molecule [Source:NCBI gene;Acc:114673189]
ENSMMUG00000020549 protein phosphatase 6 catalytic subunit [Source:NCBI gene;Acc:703658]
ENSMMUG00000020580 RPGRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]
ENSMMUG00000020605 heparanase 2 (inactive) [Source:NCBI gene;Acc:708795]
ENSMMUG00000020629 SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]
ENSMMUG00000020668 cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]
ENSMMUG00000020799 BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]
ENSMMUG00000020868 homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]
ENSMMUG00000021022 deoxynucleotidyltransferase terminal interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:71845]
ENSMMUG00000021039 X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]
ENSMMUG00000021062 CD177 molecule [Source:VGNC Symbol;Acc:VGNC:70912]
ENSMMUG00000021428 lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]
ENSMMUG00000021436 latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]
ENSMMUG00000021477 ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]
ENSMMUG00000021564 lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]
ENSMMUG00000021610 regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]
ENSMMUG00000021661 leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]
ENSMMUG00000021664 lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]
ENSMMUG00000022031 DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]
ENSMMUG00000022100 midnolin [Source:VGNC Symbol;Acc:VGNC:82186]
ENSMMUG00000022207 phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]
ENSMMUG00000022313 activating transcription factor 7 [Source:NCBI gene;Acc:700403]
ENSMMUG00000022401 EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]
ENSMMUG00000022613 reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]
ENSMMUG00000022893 von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]
ENSMMUG00000022914 RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]
ENSMMUG00000022996 HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]
ENSMMUG00000023048 cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]
ENSMMUG00000023192 choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]
ENSMMUG00000023263 mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]
ENSMMUG00000023286 UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]
ENSMMUG00000023303 ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]
ENSMMUG00000023370 DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]
ENSMMUG00000023403 GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]
ENSMMUG00000023477
ENSMMUG00000023479 latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]
ENSMMUG00000023599 chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]
ENSMMUG00000025625 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000026950 microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]
ENSMMUG00000027543 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000027986 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000028907 insulin receptor [Source:NCBI gene;Acc:706009]

ENSMMUG00000028947 complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]
ENSMMUG00000028948 azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]
ENSMMUG00000029296 phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]
ENSMMUG00000030279 A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]
ENSMMUG00000030964 RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]
ENSMMUG00000031100 membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]
ENSMMUG00000031163 membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]
ENSMMUG00000031391 RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]
ENSMMUG00000037175 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000038363 adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]
ENSMMUG00000038944
ENSMMUG00000039774 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000040741 thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]
ENSMMUG00000041101 protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]
ENSMMUG00000042598 transmembrane protein 18 [Source:NCBI gene;Acc:721515]
ENSMMUG00000043134 coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]
ENSMMUG00000043396 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000045544 neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]
ENSMMUG00000046169
ENSMMUG00000046417 chromobox 2 [Source:NCBI gene;Acc:717462]
ENSMMUG00000046478 WASH complex subunit 3 [Source:NCBI gene;Acc:697824]
ENSMMUG00000046774 RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]
ENSMMUG00000047465 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048204 ephrin B3 [Source:NCBI gene;Acc:716257]
ENSMMUG00000048215
ENSMMUG00000048375 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048566 MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]
ENSMMUG00000049130
ENSMMUG00000049232 AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]
ENSMMUG00000049234 ninjurin 2 [Source:NCBI gene;Acc:706368]
ENSMMUG00000049703 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049850 proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]
ENSMMUG00000050028
ENSMMUG00000050516
ENSMMUG00000050543
ENSMMUG00000050585
ENSMMUG00000050696 taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]
ENSMMUG00000050793 N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]
ENSMMUG00000050822 carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]
ENSMMUG00000051072
ENSMMUG00000051201 zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]
ENSMMUG00000051226 FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]
ENSMMUG00000051807
ENSMMUG00000051925
ENSMMUG00000052168
ENSMMUG00000052505 homeobox B9 [Source:NCBI gene;Acc:106994009]
ENSMMUG00000052569
ENSMMUG00000052607
ENSMMUG00000052854 mucin like 1 [Source:NCBI gene;Acc:100423942]
ENSMMUG00000053013
ENSMMUG00000053083 C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]

ENSMMUG00000053376
ENSMMUG00000053457 caspase 14 [Source:NCBI gene;Acc:718049]
ENSMMUG00000053655
ENSMMUG00000053937
ENSMMUG00000054072
ENSMMUG00000055048
ENSMMUG00000055290 netrin 1 [Source:NCBI gene;Acc:717645]
ENSMMUG00000055324 homeobox B7 [Source:NCBI gene;Acc:697089]
ENSMMUG00000055352
ENSMMUG00000055379
ENSMMUG00000055747 cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]
ENSMMUG00000055775 transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]
ENSMMUG00000055811
ENSMMUG00000055820
ENSMMUG00000055897
ENSMMUG00000055963
ENSMMUG00000056248
ENSMMUG00000056381 forkhead box R1 [Source:NCBI gene;Acc:707285]
ENSMMUG00000056477
ENSMMUG00000056555
ENSMMUG00000056629 nucleolar protein 12 [Source:NCBI gene;Acc:698318]
ENSMMUG00000056840
ENSMMUG00000056945
ENSMMUG00000056950
ENSMMUG00000057001 homeobox B2 [Source:NCBI gene;Acc:106994010]
ENSMMUG00000057157
ENSMMUG00000057179 cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]
ENSMMUG00000057231 T-box transcription factor 21 [Source:NCBI gene;Acc:694044]
ENSMMUG00000057331 RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]
ENSMMUG00000057345 calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]
ENSMMUG00000057361 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000057570
ENSMMUG00000057632
ENSMMUG00000057640 plakophilin-3-like [Source:NCBI gene;Acc:114669833]
ENSMMUG00000057687
ENSMMUG00000057785
ENSMMUG00000057934
ENSMMUG00000058110
ENSMMUG00000058326 neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]
ENSMMUG00000058536
ENSMMUG00000058566
ENSMMUG00000058592
ENSMMUG00000058885 formin binding protein 4 [Source:NCBI gene;Acc:712633]
ENSMMUG00000058916
ENSMMUG00000058928 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059175
ENSMMUG00000059182
ENSMMUG00000059229 CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]
ENSMMUG00000059332 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059341 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059374

ENSMMUG00000059436 interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]
ENSMMUG00000059504
ENSMMUG00000059782
ENSMMUG00000059985
ENSMMUG00000060289
ENSMMUG00000060502
ENSMMUG00000060517
ENSMMUG00000060675
ENSMMUG00000060712
ENSMMUG00000060761
ENSMMUG00000060767
ENSMMUG00000060879 homeobox B13 [Source:NCBI gene;Acc:697572]
ENSMMUG00000060987
ENSMMUG00000061335
ENSMMUG00000061342
ENSMMUG00000061424 ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]
ENSMMUG00000061533
ENSMMUG00000061896
ENSMMUG00000061923
ENSMMUG00000061935
ENSMMUG00000061995
ENSMMUG00000062037 stannin [Source:NCBI gene;Acc:711909]
ENSMMUG00000062091
ENSMMUG00000062139
ENSMMUG00000062283 homeobox B6 [Source:NCBI gene;Acc:106994013]
ENSMMUG00000062583 olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]
ENSMMUG00000062781 chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]
ENSMMUG00000062863
ENSMMUG00000063590
ENSMMUG00000063622 mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]
ENSMMUG00000063759 transmembrane protein 185B [Source:NCBI gene;Acc:695744]
ENSMMUG00000063779
ENSMMUG00000063868 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063898 apolipoprotein F [Source:NCBI gene;Acc:712761]
ENSMMUG00000063914
ENSMMUG00000064052 CD300 molecule like family member d [Source:NCBI gene;Acc:703142]
ENSMMUG00000064391
ENSMMUG00000064463
ENSMMUG00000064532 mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]
ENSMMUG00000064554 leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]
ENSMMUG00000064557
ENSMMUG00000064730
ENSMMUG00000064892
ENSMMUG00000064920
ENSMMUG00000064931
ENSMMUG00000065025
ENSMMUG00000065054 G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]
ENSMMUG00000065269 Rho family GTPase 2 [Source:NCBI gene;Acc:712559]
ENSMMUG00000011627 interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]
ENSMMUG00000012938 SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]
ENSMMUG00000028733 RAS related [Source:VGNC Symbol;Acc:VGNC:76937]

ENSMMUG00000044817 nucleoporin 62 [Source:NCBI gene;Acc:100426308]
ENSMMUG00000054052 sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]
ENSMMUG00000054473 activating transcription factor 5 [Source:NCBI gene;Acc:719150]
ENSMMUG00000055976 CD99 antigen [Source:NCBI gene;Acc:106995376]
ENSMMUG00000058137 zinc finger protein 816 [Source:NCBI gene;Acc:720058]
ENSMMUG00000064146 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

Non-Survivors – SD2 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]
ENSMMUG00000000544	collagen type VI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:82084]
ENSMMUG00000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]
ENSMMUG00000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]
ENSMMUG00000000827	ubiquitin specific peptidase 38 [Source:VGNC Symbol;Acc:VGNC:79224]
ENSMMUG00000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]
ENSMMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]
ENSMMUG00000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]
ENSMMUG00000001397	multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]
ENSMMUG00000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]
ENSMMUG00000001848	sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]
ENSMMUG00000002211	doublecortin like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71670]
ENSMMUG00000002217	alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]
ENSMMUG00000002411	drebrin like [Source:NCBI gene;Acc:720621]
ENSMMUG00000002422	AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]
ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]
ENSMMUG00000002426	myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]
ENSMMUG00000002427	glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]
ENSMMUG00000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]
ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]
ENSMMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]
ENSMMUG00000002741	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]
ENSMMUG00000002886	Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]
ENSMMUG00000002949	motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]
ENSMMUG00000002950	transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]
ENSMMUG00000003131	interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]
ENSMMUG00000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]
ENSMMUG00000003167	cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]
ENSMMUG00000003265	leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]
ENSMMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]
ENSMMUG00000003269	polyhomeotic homolog 2 [Source:VGNC Symbol;Acc:VGNC:75903]
ENSMMUG00000003353	macrophage stimulating 1 receptor [Source:VGNC Symbol;Acc:VGNC:74941]
ENSMMUG00000003457	protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]
ENSMMUG00000003499	solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]
ENSMMUG00000003572	nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]
ENSMMUG00000003598	tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]

ENSMMUG0000003629 phosphatidylinositol 4-kinase type 2 beta [Source:NCBI gene;Acc:693561]
ENSMMUG0000003697 inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]
ENSMMUG0000003739 mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]
ENSMMUG0000003750 PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]
ENSMMUG0000003827 albumin [Source:VGNC Symbol;Acc:VGNC:69782]
ENSMMUG0000003830 alpha fetoprotein [Source:VGNC Symbol;Acc:VGNC:69741]
ENSMMUG0000003833 Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]
ENSMMUG0000003902 thrombospondin 3 [Source:VGNC Symbol;Acc:VGNC:78345]
ENSMMUG0000004002 CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]
ENSMMUG0000004042 Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]
ENSMMUG0000004103 collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]
ENSMMUG0000004149 eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]
ENSMMUG0000004222 thromboxane A synthase 1 [Source:VGNC Symbol;Acc:VGNC:78278]
ENSMMUG0000004224 poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]
ENSMMUG0000004257 beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]
ENSMMUG0000004273 dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]
ENSMMUG0000004280 DDB1 and CUL4 associated factor 1 [Source:VGNC Symbol;Acc:VGNC:71819]
ENSMMUG0000004512 Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]
ENSMMUG0000004516 apolipoprotein A2 [Source:NCBI gene;Acc:719946]
ENSMMUG0000004520 NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]
ENSMMUG0000004749 PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]
ENSMMUG0000004774 maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]
ENSMMUG0000004801 COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]
ENSMMUG0000005070 ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]
ENSMMUG0000005380 zinc finger protein 827 [Source:NCBI gene;Acc:706018]
ENSMMUG0000005511 SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]
ENSMMUG0000005668 kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]
ENSMMUG0000005745 EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]
ENSMMUG0000006029 odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]
ENSMMUG0000006284 adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]
ENSMMUG0000006285 antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]
ENSMMUG0000006389 zinc finger and SCAN domain containing 20 [Source:VGNC Symbol;Acc:VGNC:78895]
ENSMMUG0000006530 ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]
ENSMMUG0000006596 CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]
ENSMMUG0000006766 RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]
ENSMMUG0000006786 protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]
ENSMMUG0000006836 chloride channel accessory 1 [Source:NCBI gene;Acc:574295]
ENSMMUG0000006851 SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]
ENSMMUG0000006980 septin 7 [Source:VGNC Symbol;Acc:VGNC:81759]
ENSMMUG0000007010 coiled-coil domain-containing protein 162-like [Source:NCBI gene;Acc:700544]
ENSMMUG0000007208 G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]
ENSMMUG0000007387 G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]
ENSMMUG0000007422 spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]
ENSMMUG0000007528 chordin [Source:VGNC Symbol;Acc:VGNC:71042]
ENSMMUG0000007773 solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]
ENSMMUG0000007970 CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]
ENSMMUG0000008031 zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]
ENSMMUG0000008070 YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]
ENSMMUG0000008162 fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]
ENSMMUG0000008189 cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]
ENSMMUG0000008197 netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]

ENSMMUG0000008251 cilia and flagella associated protein 126 [Source:VGNC Symbol;Acc:VGNC:71150]
ENSMMUG0000008379 adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]
ENSMMUG0000008383 major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]
ENSMMUG0000008385 NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]
ENSMMUG0000008506 metaxin-1 [Source:NCBI gene;Acc:717595]
ENSMMUG0000008518 phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]
ENSMMUG0000008791 CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]
ENSMMUG0000008828 BEN domain containing 5 [Source:NCBI gene;Acc:711150]
ENSMMUG0000009040 cornulin [Source:VGNC Symbol;Acc:VGNC:71397]
ENSMMUG0000009184 myelin protein zero like 1 [Source:NCBI gene;Acc:698437]
ENSMMUG0000009197 myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]
ENSMMUG0000009388 F-box and leucine rich repeat protein 5 [Source:VGNC Symbol;Acc:VGNC:81408]
ENSMMUG0000009437 zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]
ENSMMUG0000009495 carboxypeptidase A1 [Source:VGNC Symbol;Acc:VGNC:71455]
ENSMMUG0000009499 mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]
ENSMMUG0000009508 TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]
ENSMMUG0000009667 zinc finger protein 385D [Source:VGNC Symbol;Acc:VGNC:79587]
ENSMMUG0000009816 exosome component 9 [Source:VGNC Symbol;Acc:VGNC:72477]
ENSMMUG00000010007 CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]
ENSMMUG00000010008 IK cytokine [Source:VGNC Symbol;Acc:VGNC:73703]
ENSMMUG00000010308 cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]
ENSMMUG00000010309 septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]
ENSMMUG00000010313 kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]
ENSMMUG00000010314 HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:VGNC Symbol;Acc:VGNC:73238]
ENSMMUG00000010316 HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]
ENSMMUG00000010318 phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]
ENSMMUG00000010444 ring finger protein 150 [Source:VGNC Symbol;Acc:VGNC:76805]
ENSMMUG00000010466 solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]
ENSMMUG00000011095 BTB domain and CNC homolog 1 [Source:VGNC Symbol;Acc:VGNC:70217]
ENSMMUG00000011513 versican [Source:VGNC Symbol;Acc:VGNC:79445]
ENSMMUG00000011633 kallikrein B1 [Source:VGNC Symbol;Acc:VGNC:74195]
ENSMMUG00000011634 coagulation factor XI [Source:VGNC Symbol;Acc:VGNC:72460]
ENSMMUG00000011788 zinc finger protein 212 [Source:VGNC Symbol;Acc:VGNC:78418]
ENSMMUG00000011878 poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]
ENSMMUG00000011914 prospero homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76427]
ENSMMUG00000012405 transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]
ENSMMUG00000012526 glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]
ENSMMUG00000012538 ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]
ENSMMUG00000012635 zyxin [Source:VGNC Symbol;Acc:VGNC:78917]
ENSMMUG00000012697 AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]
ENSMMUG00000013044 selectin P [Source:VGNC Symbol;Acc:VGNC:77157]
ENSMMUG00000013283 cadherin related family member 2 [Source:NCBI gene;Acc:697249]
ENSMMUG00000013284 G protein regulated inducer of neurite outgrowth 1 [Source:VGNC Symbol;Acc:VGNC:72998]
ENSMMUG00000013330 ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]
ENSMMUG00000013385 elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]
ENSMMUG00000013447 adaptor related protein complex 4 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69974]
ENSMMUG00000013450 TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]
ENSMMUG00000013452 canopy FGF signaling regulator 4 [Source:VGNC Symbol;Acc:VGNC:71364]
ENSMMUG00000013644 potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]
ENSMMUG00000013648 potassium two pore domain channel subfamily K member 16 [Source:VGNC Symbol;Acc:VGNC:73827]
ENSMMUG00000014045 protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]

ENSMMUG00000014046 SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]
ENSMMUG00000014076 AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]
ENSMMUG00000014138 forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]
ENSMMUG00000014589 inositol hexakisphosphate kinase 1 [Source:VGNC Symbol;Acc:VGNC:73621]
ENSMMUG00000014699
ENSMMUG00000014707 cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]
ENSMMUG00000014720 NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]
ENSMMUG00000014738 bromodomain containing 9 [Source:VGNC Symbol;Acc:VGNC:70386]
ENSMMUG00000014868 OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]
ENSMMUG00000014874 GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]
ENSMMUG00000014876 nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]
ENSMMUG00000015097 tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]
ENSMMUG00000015329 MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]
ENSMMUG00000015416 bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]
ENSMMUG00000015479 tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]
ENSMMUG00000015555 ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]
ENSMMUG00000015685 zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]
ENSMMUG00000015716 protein phosphatase with EF-hand domain 2 [Source:VGNC Symbol;Acc:VGNC:76233]
ENSMMUG00000016273 maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]
ENSMMUG00000016376 mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]
ENSMMUG00000016476 TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]
ENSMMUG00000016480 CaM kinase like vesicle associated [Source:VGNC Symbol;Acc:VGNC:70663]
ENSMMUG00000016579 selectin L [Source:NCBI gene;Acc:701419]
ENSMMUG00000016580 selectin E [Source:VGNC Symbol;Acc:VGNC:77156]
ENSMMUG00000016582 chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]
ENSMMUG00000017055 divergent protein kinase domain 2A [Source:VGNC Symbol;Acc:VGNC:71781]
ENSMMUG00000017056 Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]
ENSMMUG00000017189 regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]
ENSMMUG00000017266 UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]
ENSMMUG00000017370 signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]
ENSMMUG00000017501 N-acyl ethanolamine acid amidase [Source:VGNC Symbol;Acc:VGNC:75068]
ENSMMUG00000017503 SDA1 domain containing 1 [Source:NCBI gene;Acc:700863]
ENSMMUG00000017510 membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]
ENSMMUG00000017605 mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]
ENSMMUG00000017701 myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]
ENSMMUG00000017740 sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]
ENSMMUG00000017983 tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]
ENSMMUG00000018245 EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]
ENSMMUG00000018246 transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]
ENSMMUG00000018549 zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]
ENSMMUG00000018619 DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]
ENSMMUG00000018664 collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]
ENSMMUG00000018743 ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]
ENSMMUG00000018790 activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]
ENSMMUG00000019085 3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]
ENSMMUG00000019089 centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]
ENSMMUG00000019246 regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]
ENSMMUG00000019443 syntaxin 11 [Source:VGNC Symbol;Acc:VGNC:78041]
ENSMMUG00000019513 U2AF homology motif kinase 1 [Source:VGNC Symbol;Acc:VGNC:79198]
ENSMMUG00000019527 DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]
ENSMMUG00000019528 adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]

ENSMMUG00000019563 collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]
ENSMMUG00000019764 dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]
ENSMMUG00000019830 Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]
ENSMMUG00000019833 Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]
ENSMMUG00000019835 CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]
ENSMMUG00000019933 TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]
ENSMMUG00000019991 dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]
ENSMMUG00000020679 myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]
ENSMMUG00000020683 RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]
ENSMMUG00000020726 dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]
ENSMMUG00000020861 EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]
ENSMMUG00000020979 inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]
ENSMMUG00000020980 ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]
ENSMMUG00000021073 RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]
ENSMMUG00000021075 Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]
ENSMMUG00000021079 NME/NM23 family member 7 [Source:VGNC Symbol;Acc:VGNC:75221]
ENSMMUG00000021080 basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]
ENSMMUG00000021357 zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]
ENSMMUG00000021447 TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]
ENSMMUG00000021449 vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]
ENSMMUG00000021498 L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]
ENSMMUG00000021972 diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]
ENSMMUG00000021988 N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]
ENSMMUG00000022003 multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]
ENSMMUG00000022246 PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]
ENSMMUG00000022247 osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]
ENSMMUG00000022381 prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]
ENSMMUG00000022513 glutamate metabotropic receptor 3 [Source:VGNC Symbol;Acc:VGNC:73287]
ENSMMUG00000022728 zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]
ENSMMUG00000022884 glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]
ENSMMUG00000022921 solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]
ENSMMUG00000023045 zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]
ENSMMUG00000023146 ASH1 like histone lysine methyltransferase [Source:NCBI gene;Acc:717778]
ENSMMUG00000023335 ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]
ENSMMUG00000023345 adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]
ENSMMUG00000023570 interleukin 19 [Source:NCBI gene;Acc:694806]
ENSMMUG00000023598 sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]
ENSMMUG00000023678 pleckstrin homology and RhoGEF domain containing G5 [Source:VGNC Symbol;Acc:VGNC:76130]
ENSMMUG00000023823 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000024537
ENSMMUG00000026975 mml-mir-206 [Source:miRBase;Acc:MI0007667]
ENSMMUG00000029421 protein tyrosine phosphatase receptor type K [Source:VGNC Symbol;Acc:VGNC:83453]
ENSMMUG00000031279 torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]
ENSMMUG00000031291 regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]
ENSMMUG00000031534 ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]
ENSMMUG00000031540 purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]
ENSMMUG00000031684 KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]
ENSMMUG00000031785
ENSMMUG00000031794
ENSMMUG00000032249 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]
ENSMMUG00000032284 leucine rich repeat containing 47 [Source:VGNC Symbol;Acc:VGNC:74388]

ENSMMUG00000032659 mml-mir-711 [Source:miRBase;Acc:MI0012553]
ENSMMUG00000033200 Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]
ENSMMUG00000035943 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000036060 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037890
ENSMMUG00000038524 olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]
ENSMMUG00000039101 pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]
ENSMMUG00000040393 zinc finger protein 655 [Source:NCBI gene;Acc:718811]
ENSMMUG00000040696 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000040888 complement C3b/C4b receptor 1 like [Source:HGNC Symbol;Acc:HGNC:2335]
ENSMMUG00000041519 zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]
ENSMMUG00000042510 coagulation factor V [Source:NCBI gene;Acc:704695]
ENSMMUG00000042618 involucrin [Source:NCBI gene;Acc:713728]
ENSMMUG00000043675 Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]
ENSMMUG00000044257 MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]
ENSMMUG00000044265 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000044429 glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]
ENSMMUG00000044822 coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]
ENSMMUG00000045513
ENSMMUG00000045609 CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]
ENSMMUG00000046550 coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]
ENSMMUG00000046969 Fc receptor like 3 [Source:NCBI gene;Acc:718801]
ENSMMUG00000048621 enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]
ENSMMUG00000048824 eva-1 homolog C [Source:NCBI gene;Acc:708681]
ENSMMUG00000049297
ENSMMUG00000049494
ENSMMUG00000049551
ENSMMUG00000049678
ENSMMUG00000049755 leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]
ENSMMUG00000049843 late cornified envelope protein 2D [Source:NCBI gene;Acc:100424118]
ENSMMUG00000049935
ENSMMUG00000050339 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050405
ENSMMUG00000050419 ADAM metallopeptidase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]
ENSMMUG00000050465 ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]
ENSMMUG00000050505 small integral membrane protein 4 [Source:NCBI gene;Acc:696553]
ENSMMUG00000051408 myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]
ENSMMUG00000051645
ENSMMUG00000051677
ENSMMUG00000051719 late cornified envelope 1C [Source:HGNC Symbol;Acc:HGNC:29464]
ENSMMUG00000051816 keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]
ENSMMUG00000051975
ENSMMUG00000052348
ENSMMUG00000052474
ENSMMUG00000052734
ENSMMUG00000052777
ENSMMUG00000052780
ENSMMUG00000053367 secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]
ENSMMUG00000053498
ENSMMUG00000053516
ENSMMUG00000053601

ENSMMUG00000053656
ENSMMUG00000053691 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000053790
ENSMMUG00000053984
ENSMMUG00000053990
ENSMMUG00000054158 acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]
ENSMMUG00000054237 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000054286
ENSMMUG00000054414
ENSMMUG00000054634 late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]
ENSMMUG00000054686
ENSMMUG00000055022 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055038
ENSMMUG00000055096
ENSMMUG00000055126
ENSMMUG00000055199 cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]
ENSMMUG00000055256 family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]
ENSMMUG00000055266 late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]
ENSMMUG00000055322 EPH receptor A1 [Source:NCBI gene;Acc:706295]
ENSMMUG00000055441
ENSMMUG00000055571
ENSMMUG00000055710 taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]
ENSMMUG00000055834
ENSMMUG00000055914
ENSMMUG00000056024
ENSMMUG00000056058 C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]
ENSMMUG00000056158
ENSMMUG00000056168
ENSMMUG00000056266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056511
ENSMMUG00000056924 G protein-coupled receptor 149 [Source:NCBI gene;Acc:106997054]
ENSMMUG00000056940 late cornified envelope protein 1C [Source:NCBI gene;Acc:713408]
ENSMMUG00000056980
ENSMMUG00000057076 claudin 19 [Source:NCBI gene;Acc:697807]
ENSMMUG00000057539
ENSMMUG00000057702
ENSMMUG00000057703
ENSMMUG00000057983
ENSMMUG00000058187
ENSMMUG00000058229 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000058370 taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]
ENSMMUG00000058423
ENSMMUG00000058432 zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]
ENSMMUG00000058472 late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]
ENSMMUG00000058557
ENSMMUG00000058750 nuclear receptor interacting protein 1 [Source:NCBI gene;Acc:693866]
ENSMMUG00000058817
ENSMMUG00000058881 bone morphogenetic protein 8b [Source:NCBI gene;Acc:100427030]
ENSMMUG00000059318 urocortin 2 [Source:NCBI gene;Acc:106996925]
ENSMMUG00000059472 filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]
ENSMMUG00000059671

ENSMMUG00000060184 SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]
ENSMMUG00000060218 chemokine (C motif) ligand 1 [Source:NCBI gene;Acc:574367]
ENSMMUG00000060273 mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]
ENSMMUG00000060496 translocase of outer mitochondrial membrane 40 like [Source:NCBI gene;Acc:100426891]
ENSMMUG00000060555
ENSMMUG00000060576
ENSMMUG00000060581
ENSMMUG00000060760
ENSMMUG00000060795
ENSMMUG00000060808
ENSMMUG00000060812 autophagy related 12 [Source:NCBI gene;Acc:696765]
ENSMMUG00000060901
ENSMMUG00000061031
ENSMMUG00000061098
ENSMMUG00000061139
ENSMMUG00000061151
ENSMMUG00000061194
ENSMMUG00000061208 MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]
ENSMMUG00000061282 hyaluronan and proteoglycan link protein 1 [Source:NCBI gene;Acc:712501]
ENSMMUG00000061474
ENSMMUG00000061785
ENSMMUG00000061816
ENSMMUG00000061845
ENSMMUG00000062092
ENSMMUG00000062294
ENSMMUG00000062316 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062326
ENSMMUG00000062419
ENSMMUG00000062454
ENSMMUG00000062496
ENSMMUG00000062522
ENSMMUG00000062794
ENSMMUG00000062837
ENSMMUG00000062949
ENSMMUG00000062996
ENSMMUG00000063198
ENSMMUG00000063351 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063981 nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]
ENSMMUG00000064014
ENSMMUG00000064174
ENSMMUG00000064707
ENSMMUG00000064729 small proline rich protein 3 [Source:NCBI gene;Acc:713857]
ENSMMUG00000064799
ENSMMUG00000064824 gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]
ENSMMUG00000064860 phosphoglycerate mutase 2 [Source:NCBI gene;Acc:720615]
ENSMMUG00000064915 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065005 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065134 Fas ligand [Source:NCBI gene;Acc:574159]
ENSMMUG00000065212
ENSMMUG00000065221
ENSMMUG00000065295

ENSMMUG0000000023 prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]
ENSMMUG00000000152 transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]
ENSMMUG00000000302 WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]
ENSMMUG00000000313 HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]
ENSMMUG00000000327 fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]
ENSMMUG00000000375 pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]
ENSMMUG00000000376 bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]
ENSMMUG00000000754 Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]
ENSMMUG00000000776 zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]
ENSMMUG00000000803 signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]
ENSMMUG00000000826 storkhead box 1 [Source:VGNC Symbol;Acc:VGNC:78197]
ENSMMUG00000000863 dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]
ENSMMUG00000000869 small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]
ENSMMUG00000000958 aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]
ENSMMUG00000001088 patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]
ENSMMUG00000001151 microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]
ENSMMUG00000001273 clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]
ENSMMUG00000001324 tetraspanin 32 [Source:VGNC Symbol;Acc:VGNC:78920]
ENSMMUG00000001338 antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]
ENSMMUG00000001472 TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]
ENSMMUG00000001475 transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]
ENSMMUG00000001547 zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]
ENSMMUG00000001745 oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]
ENSMMUG00000001761 myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]
ENSMMUG00000001820 regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]
ENSMMUG00000001989 RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]
ENSMMUG00000002260 protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]
ENSMMUG00000002345 tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]
ENSMMUG00000002483 citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]
ENSMMUG00000002536 calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]
ENSMMUG00000002562 mediator complex subunit 19 [Source:VGNC Symbol;Acc:VGNC:74615]
ENSMMUG00000002563 zinc finger DHHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]
ENSMMUG00000002566 selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]
ENSMMUG00000002917 single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]
ENSMMUG00000003217 transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]
ENSMMUG00000003348 neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]
ENSMMUG00000003484 tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]
ENSMMUG00000003548 tectorin beta [Source:VGNC Symbol;Acc:VGNC:78306]
ENSMMUG00000003584 mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]
ENSMMUG00000003591 pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]
ENSMMUG00000003658 autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]
ENSMMUG00000003669 methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]
ENSMMUG00000003684 ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]
ENSMMUG00000003834 basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]
ENSMMUG00000003874 interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]
ENSMMUG00000003976 glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]
ENSMMUG00000004022 zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]
ENSMMUG00000004028 kelch repeat and BTB domain containing 13 [Source:VGNC Symbol;Acc:VGNC:73953]
ENSMMUG00000004255 YLP motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79092]
ENSMMUG00000004274 myotubularin related protein 8 [Source:VGNC Symbol;Acc:VGNC:74974]
ENSMMUG00000004309 APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]

ENSMMUG0000004332 tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]
ENSMMUG0000004376 calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]
ENSMMUG0000004435 two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]
ENSMMUG0000004470 CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]
ENSMMUG0000004558 OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]
ENSMMUG0000004797 CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]
ENSMMUG0000004816 membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]
ENSMMUG0000004854 leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]
ENSMMUG0000004982 activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]
ENSMMUG0000005106 unc-45 myosin chaperone A [Source:VGNC Symbol;Acc:VGNC:79858]
ENSMMUG0000005108 RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]
ENSMMUG0000005208 RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]
ENSMMUG0000005255 TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]
ENSMMUG0000005293 G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]
ENSMMUG0000005294 casein kinase 2 beta [Source:NCBI gene;Acc:715807]
ENSMMUG0000005297 proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]
ENSMMUG0000005302 BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]
ENSMMUG0000005303 apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]
ENSMMUG0000005415 olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]
ENSMMUG0000005478 trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]
ENSMMUG0000005486 protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]
ENSMMUG0000005488 coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]
ENSMMUG0000005504 nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]
ENSMMUG0000005920 N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]
ENSMMUG0000006180 tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]
ENSMMUG0000006181 WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]
ENSMMUG0000006468 FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]
ENSMMUG0000006568 basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]
ENSMMUG0000006655 myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]
ENSMMUG0000006659 aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]
ENSMMUG0000006723 solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]
ENSMMUG0000006758 cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]
ENSMMUG0000006855 acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]
ENSMMUG0000006997 thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]
ENSMMUG0000007068 tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]
ENSMMUG0000007534 protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]
ENSMMUG0000007546 complement C1q like 4 [Source:VGNC Symbol;Acc:VGNC:70450]
ENSMMUG0000007548 DnaJ heat shock protein family (Hsp40) member C22 [Source:NCBI gene;Acc:710205]
ENSMMUG0000007603 coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]
ENSMMUG0000007610 ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]
ENSMMUG0000007688 angiominin [Source:VGNC Symbol;Acc:VGNC:69627]
ENSMMUG0000008006 RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]
ENSMMUG0000008007 multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]
ENSMMUG0000008384 solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]
ENSMMUG0000008387 dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]
ENSMMUG0000008529 chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]
ENSMMUG0000008618 calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]
ENSMMUG0000008651 FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]
ENSMMUG0000008652 coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]
ENSMMUG0000008839 DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]
ENSMMUG0000008854 natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]

ENSMMUG0000008964 D-glutamate cyclase [Source:VGNC Symbol;Acc:VGNC:71685]
ENSMMUG0000009308 histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]
ENSMMUG0000009312 leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]
ENSMMUG0000009346 ArfGAP with GTPase domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:84206]
ENSMMUG0000009361 fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]
ENSMMUG0000009441 abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]
ENSMMUG0000009559 minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]
ENSMMUG0000009583 COP9 signalosome subunit 7A [Source:VGNC Symbol;Acc:VGNC:71185]
ENSMMUG0000009593 WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]
ENSMMUG0000009622 glypican 3 [Source:VGNC Symbol;Acc:VGNC:73117]
ENSMMUG0000009788 tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]
ENSMMUG0000009794 protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]
ENSMMUG00000010137 microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]
ENSMMUG00000010173 presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]
ENSMMUG00000010180 PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]
ENSMMUG00000010201 atrophin 1 [Source:VGNC Symbol;Acc:VGNC:70157]
ENSMMUG00000010203 protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]
ENSMMUG00000010521 ADP ribosylation factor like GTPase 5A [Source:VGNC Symbol;Acc:VGNC:70017]
ENSMMUG00000010526 calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]
ENSMMUG00000010881 cytochrome P450, family 26, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:699519]
ENSMMUG00000011155 FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]
ENSMMUG00000011440 neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]
ENSMMUG00000011564 transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]
ENSMMUG00000011637 coiled-coil domain containing 148 [Source:VGNC Symbol;Acc:VGNC:70856]
ENSMMUG00000011650 dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]
ENSMMUG00000011661 integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]
ENSMMUG00000011682 ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]
ENSMMUG00000011774 integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]
ENSMMUG00000011789 hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]
ENSMMUG00000011817 aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]
ENSMMUG00000011965 coiled-coil domain containing 175 [Source:VGNC Symbol;Acc:VGNC:84317]
ENSMMUG00000012065 tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]
ENSMMUG00000012356 serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]
ENSMMUG00000012941 nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]
ENSMMUG00000012944 vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]
ENSMMUG00000013146 claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]
ENSMMUG00000013150 MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]
ENSMMUG00000013160 DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]
ENSMMUG00000013176 NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]
ENSMMUG00000013193 matrix metalloproteinase 16 [Source:VGNC Symbol;Acc:VGNC:74894]
ENSMMUG00000013251 xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]
ENSMMUG00000013387 cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]
ENSMMUG00000013460 RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]
ENSMMUG00000013696 myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]
ENSMMUG00000013798 fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]
ENSMMUG00000013830 glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]
ENSMMUG00000013832 ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]
ENSMMUG00000013871 WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]
ENSMMUG00000014131 microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]
ENSMMUG00000014237 lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]
ENSMMUG00000014265 TAP binding protein like [Source:NCBI gene;Acc:712626]

ENSMMUG00000014277 ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]
ENSMMUG00000014291 SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]
ENSMMUG00000014397 NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]
ENSMMUG00000014530 pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]
ENSMMUG00000014658 ninein [Source:VGNC Symbol;Acc:VGNC:75177]
ENSMMUG00000014766 neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]
ENSMMUG00000014771 zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]
ENSMMUG00000014983 alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]
ENSMMUG00000015394 WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]
ENSMMUG00000015468 checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]
ENSMMUG00000015686 abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]
ENSMMUG00000015693 lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]
ENSMMUG00000015865 arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]
ENSMMUG00000015926 2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]
ENSMMUG00000015931 phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]
ENSMMUG00000016069 cubilin [Source:VGNC Symbol;Acc:VGNC:82132]
ENSMMUG00000016237 taxilin gamma [Source:NCBI gene;Acc:713769]
ENSMMUG00000016255 telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]
ENSMMUG00000016465 histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]
ENSMMUG00000016929 proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]
ENSMMUG00000017129 solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]
ENSMMUG00000017261 galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]
ENSMMUG00000017280 TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]
ENSMMUG00000017287 PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]
ENSMMUG00000017380 neuregulin 3 [Source:NCBI gene;Acc:699268]
ENSMMUG00000017450 MOB kinase activator 2 [Source:NCBI gene;Acc:720951]
ENSMMUG00000017533 interferon induced protein with tetratricopeptide repeats 1 [Source:NCBI gene;Acc:695683]
ENSMMUG00000017627 B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]
ENSMMUG00000017660
ENSMMUG00000017767 integrin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73784]
ENSMMUG00000017810 structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]
ENSMMUG00000018030 endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]
ENSMMUG00000018144 C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]
ENSMMUG00000018151 membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]
ENSMMUG00000018237 plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]
ENSMMUG00000018239 centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]
ENSMMUG00000018298 killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]
ENSMMUG00000018345 phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]
ENSMMUG00000018492 TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]
ENSMMUG00000018767 cell division cycle associated 5 [Source:NCBI gene;Acc:721998]
ENSMMUG00000019126 purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]
ENSMMUG00000019304 indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]
ENSMMUG00000019306 indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]
ENSMMUG00000019363 synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]
ENSMMUG00000019526 BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]
ENSMMUG00000019546 regucalcin [Source:VGNC Symbol;Acc:VGNC:76912]
ENSMMUG00000019690 SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]
ENSMMUG00000019837 ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]
ENSMMUG00000019839 lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]
ENSMMUG00000019961 protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]
ENSMMUG00000020040 phosphatase and actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:75841]

ENSMMUG00000020080 GDNF family receptor alpha 1 [Source:VGNC Symbol;Acc:VGNC:72917]
ENSMMUG00000020177 membrane spanning 4-domains A4A [Source:NCBI gene;Acc:698027]
ENSMMUG00000020185 voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]
ENSMMUG00000020534 p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]
ENSMMUG00000020604 HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]
ENSMMUG00000020743 centrin 2 [Source:NCBI gene;Acc:693376]
ENSMMUG00000021157 TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]
ENSMMUG00000021564 lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]
ENSMMUG00000021610 regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]
ENSMMUG00000021634 TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]
ENSMMUG00000021661 leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]
ENSMMUG00000021664 lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]
ENSMMUG00000021877 protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]
ENSMMUG00000022109 CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]
ENSMMUG00000022313 activating transcription factor 7 [Source:NCBI gene;Acc:700403]
ENSMMUG00000022406 ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]
ENSMMUG00000022409 solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]
ENSMMUG00000022893 von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]
ENSMMUG00000023016 jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]
ENSMMUG00000023048 cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]
ENSMMUG00000023060 A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]
ENSMMUG00000023139 small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]
ENSMMUG00000023192 choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]
ENSMMUG00000023300 FERM domain containing 8 [Source:NCBI gene;Acc:716379]
ENSMMUG00000023370 DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]
ENSMMUG00000023477
ENSMMUG00000023479 latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]
ENSMMUG00000023816 semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]
ENSMMUG00000024234 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000025918 small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]
ENSMMUG00000027543 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000029034 defensin beta 136 [Source:VGNC Symbol;Acc:VGNC:71826]
ENSMMUG00000029186 exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]
ENSMMUG00000029420
ENSMMUG00000029507 adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]
ENSMMUG00000031100 membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]
ENSMMUG00000031163 membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]
ENSMMUG00000032429 forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]
ENSMMUG00000034978 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037175 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037243 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037641 chondrosarcoma-associated gene 2/3 protein [Source:NCBI gene;Acc:106992305]
ENSMMUG00000038076 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000038256 aquaporin 2 [Source:NCBI gene;Acc:711719]
ENSMMUG00000038363 adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]
ENSMMUG00000038707 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000039292
ENSMMUG00000040071
ENSMMUG00000040741 thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]
ENSMMUG00000041101 protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]
ENSMMUG00000041376 G antigen 10 [Source:NCBI gene;Acc:693330]

ENSMMUG00000041729
ENSMMUG00000042039
ENSMMUG00000042870 Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]
ENSMMUG00000043648
ENSMMUG00000044581 modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]
ENSMMUG00000045093 cyclin B3 [Source:NCBI gene;Acc:694534]
ENSMMUG00000045544 neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]
ENSMMUG00000045654 tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]
ENSMMUG00000045970 thiamine triphosphatase [Source:NCBI gene;Acc:714403]
ENSMMUG00000046478 WASH complex subunit 3 [Source:NCBI gene;Acc:697824]
ENSMMUG00000046774 RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]
ENSMMUG00000047247 matrix Gla protein [Source:NCBI gene;Acc:574116]
ENSMMUG00000047465 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048066 trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]
ENSMMUG00000048462 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048744
ENSMMUG00000049021 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049232 AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]
ENSMMUG00000049265 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049267
ENSMMUG00000049735 allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]
ENSMMUG00000049770 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049866
ENSMMUG00000049894
ENSMMUG00000050028
ENSMMUG00000050495
ENSMMUG00000050529 phosphodiesterase 6H [Source:NCBI gene;Acc:700447]
ENSMMUG00000050549 lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]
ENSMMUG00000050585
ENSMMUG00000050608
ENSMMUG00000050696 taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]
ENSMMUG00000050844 BTB domain containing 18 [Source:NCBI gene;Acc:703264]
ENSMMUG00000051037
ENSMMUG00000051349
ENSMMUG00000051363
ENSMMUG00000051503 nuclear pore associated protein 1 [Source:NCBI gene;Acc:719891]
ENSMMUG00000051807
ENSMMUG00000052073
ENSMMUG00000052168
ENSMMUG00000052252 protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]
ENSMMUG00000052453 serpin family A member 11 [Source:NCBI gene;Acc:701483]
ENSMMUG00000052569
ENSMMUG00000052637 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052854 mucin like 1 [Source:NCBI gene;Acc:100423942]
ENSMMUG00000052891
ENSMMUG00000053013
ENSMMUG00000053106
ENSMMUG00000053249
ENSMMUG00000053324 lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]
ENSMMUG00000053376
ENSMMUG00000053378

ENSMMUG00000053460
ENSMMUG00000053481
ENSMMUG00000053561
ENSMMUG00000053627
ENSMMUG00000053722
ENSMMUG00000053781 Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]
ENSMMUG00000053989
ENSMMUG00000054072
ENSMMUG00000054225 taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]
ENSMMUG00000054449 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054621
ENSMMUG00000054755 transmembrane protein 65 [Source:NCBI gene;Acc:705727]
ENSMMUG00000054904 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054942
ENSMMUG00000054960
ENSMMUG00000055018 sushi domain containing 6 [Source:NCBI gene;Acc:712719]
ENSMMUG00000055121 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055906 angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]
ENSMMUG00000055918
ENSMMUG00000056063
ENSMMUG00000056184
ENSMMUG00000056343
ENSMMUG00000056376
ENSMMUG00000056605 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056741 ovostatin-like [Source:NCBI gene;Acc:722294]
ENSMMUG00000056797
ENSMMUG00000056906
ENSMMUG00000057063 solute carrier family 6 member 14 [Source:NCBI gene;Acc:709598]
ENSMMUG00000057134 keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]
ENSMMUG00000057179 cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]
ENSMMUG00000057196 pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]
ENSMMUG00000057219 tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]
ENSMMUG00000057283
ENSMMUG00000057570
ENSMMUG00000057640 plakophilin-3-like [Source:NCBI gene;Acc:114669833]
ENSMMUG00000057719
ENSMMUG00000057785
ENSMMUG00000058002 zinc finger protein 669-like [Source:NCBI gene;Acc:696282]
ENSMMUG00000058013 melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]
ENSMMUG00000058085 coiled-coil domain containing 195 [Source:HGNC Symbol;Acc:HGNC:53441]
ENSMMUG00000058108 BMP and activin membrane bound inhibitor [Source:NCBI gene;Acc:710152]
ENSMMUG00000058176 b-defensin2-like [Source:NCBI gene;Acc:100169969]
ENSMMUG00000058534
ENSMMUG00000058536
ENSMMUG00000058800
ENSMMUG00000058835
ENSMMUG00000058885 formin binding protein 4 [Source:NCBI gene;Acc:712633]
ENSMMUG00000058935 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059182
ENSMMUG00000059299 membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]
ENSMMUG00000059335

ENSMMUG00000059432
ENSMMUG00000059504
ENSMMUG00000059608 fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]
ENSMMUG00000059782
ENSMMUG00000059932 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060063
ENSMMUG00000060437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060517
ENSMMUG00000060596 BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]
ENSMMUG00000060667
ENSMMUG00000060712
ENSMMUG00000060750 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061079 golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]
ENSMMUG00000061342
ENSMMUG00000061526 synaptopodin 2 like [Source:NCBI gene;Acc:714736]
ENSMMUG00000061576
ENSMMUG00000061603
ENSMMUG00000061606 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061797 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000061833 transmembrane protein 251 [Source:NCBI gene;Acc:708131]
ENSMMUG00000061923
ENSMMUG00000061935
ENSMMUG00000062063 melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]
ENSMMUG00000062139
ENSMMUG00000062217 HD domain containing 3 [Source:NCBI gene;Acc:715621]
ENSMMUG00000062254
ENSMMUG00000062518
ENSMMUG00000062863
ENSMMUG00000063112
ENSMMUG00000063121
ENSMMUG00000063346
ENSMMUG00000063495
ENSMMUG00000063525
ENSMMUG00000063694 cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]
ENSMMUG00000063744
ENSMMUG00000063759 transmembrane protein 185B [Source:NCBI gene;Acc:695744]
ENSMMUG00000063898 apolipoprotein F [Source:NCBI gene;Acc:712761]
ENSMMUG00000063913 endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]
ENSMMUG00000064321
ENSMMUG00000064358
ENSMMUG00000064557
ENSMMUG00000064730
ENSMMUG00000064928
ENSMMUG00000064931
ENSMMUG00000065109 ankyrin repeat and SOCS box containing 12 [Source:NCBI gene;Acc:707931]
ENSMMUG00000065227
ENSMMUG00000065247 opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]
ENSMMUG00000065319
ENSMMUG00000000187 UV radiation resistance associated [Source:VGNC Symbol;Acc:VGNC:78751]
ENSMMUG00000000198 collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]
ENSMMUG00000000276 NACC family member 2 [Source:VGNC Symbol;Acc:VGNC:75013]

ENSMMUG0000000293 catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]
ENSMMUG0000000396 intraflagellar transport 52 [Source:NCBI gene;Acc:694933]
ENSMMUG0000000452 LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]
ENSMMUG0000000566
ENSMMUG0000000588 rhomboid 5 homolog 1 [Source:NCBI gene;Acc:693423]
ENSMMUG0000000590 NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]
ENSMMUG0000000700 CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]
ENSMMUG0000000740 spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]
ENSMMUG0000001036 coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]
ENSMMUG0000001058 tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]
ENSMMUG0000001116 SUZ12 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:78144]
ENSMMUG0000001278 vitrin [Source:VGNC Symbol;Acc:VGNC:78773]
ENSMMUG0000001387 p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]
ENSMMUG0000001409 coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]
ENSMMUG0000001536 glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]
ENSMMUG0000001545 aquaporin 7 [Source:NCBI gene;Acc:702836]
ENSMMUG0000001845 DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]
ENSMMUG0000001917 megakaryocyte-associated tyrosine kinase [Source:NCBI gene;Acc:100430078]
ENSMMUG0000002124 beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]
ENSMMUG0000002267 laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]
ENSMMUG0000002330 ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]
ENSMMUG0000002376 scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]
ENSMMUG0000002377 Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]
ENSMMUG0000002382 serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]
ENSMMUG0000002397 GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]
ENSMMUG0000002715 solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]
ENSMMUG0000002810 TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]
ENSMMUG0000002926 mediator complex subunit 24 [Source:NCBI gene;Acc:699536]
ENSMMUG0000002959 helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]
ENSMMUG0000002963 Rho GTPase activating protein 32 [Source:VGNC Symbol;Acc:VGNC:69855]
ENSMMUG0000003005 MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]
ENSMMUG0000003007 caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]
ENSMMUG0000003098 peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]
ENSMMUG0000003105 inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]
ENSMMUG0000003106 SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]
ENSMMUG0000003298 ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]
ENSMMUG0000003303 Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]
ENSMMUG0000003314 aquaporin 3 (Gill blood group) [Source:NCBI gene;Acc:702721]
ENSMMUG0000003356 tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]
ENSMMUG0000003437 signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]
ENSMMUG0000003539 glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]
ENSMMUG0000003555 calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]
ENSMMUG0000003611 low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:74248]
ENSMMUG0000003668 GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]
ENSMMUG0000003797 ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]
ENSMMUG0000003950 nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]
ENSMMUG0000003955 post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]
ENSMMUG0000004283 calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]
ENSMMUG0000004330 peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]
ENSMMUG0000004498 protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]
ENSMMUG0000004794 DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]

ENSMMUG0000004820 pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]
ENSMMUG0000004868 dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]
ENSMMUG0000005086 homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]
ENSMMUG0000005215 Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]
ENSMMUG0000005432 clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]
ENSMMUG0000005440 ELMO domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72109]
ENSMMUG0000005482 lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]
ENSMMUG0000005595 RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]
ENSMMUG0000005625 fibrosin [Source:NCBI gene;Acc:712741]
ENSMMUG0000005639 transmembrane protein 41B [Source:VGNC Symbol;Acc:VGNC:79754]
ENSMMUG0000005666 phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]
ENSMMUG0000005737 SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]
ENSMMUG0000005989 GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]
ENSMMUG0000005997 cell division cycle 14B [Source:NCBI gene;Acc:710300]
ENSMMUG0000006066 phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]
ENSMMUG0000006079 leucine rich repeat containing 19 [Source:VGNC Symbol;Acc:VGNC:74337]
ENSMMUG0000006091 contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]
ENSMMUG0000006093 enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]
ENSMMUG0000006375 coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]
ENSMMUG0000006405 secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]
ENSMMUG0000006689 nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]
ENSMMUG0000006692 signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]
ENSMMUG0000006738 L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]
ENSMMUG0000006853 crystallin beta B2 [Source:NCBI gene;Acc:100144420]
ENSMMUG0000006929 ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]
ENSMMUG0000006931 kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]
ENSMMUG0000006941 exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]
ENSMMUG0000007197 BRCA2 DNA repair associated [Source:VGNC Symbol;Acc:VGNC:70279]
ENSMMUG0000007200 NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]
ENSMMUG0000007201 PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]
ENSMMUG0000007401 arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]
ENSMMUG0000007423 transcription factor Dp-1 [Source:NCBI gene;Acc:715345]
ENSMMUG0000007726 synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]
ENSMMUG0000007729 ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]
ENSMMUG0000007799 LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]
ENSMMUG0000007804 RAN binding protein 10 [Source:VGNC Symbol;Acc:VGNC:76563]
ENSMMUG0000007925 serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]
ENSMMUG0000008080 ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]
ENSMMUG0000008081 ATP binding cassette subfamily G member 8 [Source:VGNC Symbol;Acc:VGNC:69392]
ENSMMUG0000008195 TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]
ENSMMUG0000008196 aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]
ENSMMUG0000008200 Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]
ENSMMUG0000008253 zinc finger protein 267 [Source:NCBI gene;Acc:641441]
ENSMMUG0000008536 mitogen-activated protein kinase 7 [Source:VGNC Symbol;Acc:VGNC:74648]
ENSMMUG0000008758 zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]
ENSMMUG0000008778 parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]
ENSMMUG0000008784 lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]
ENSMMUG0000008923 Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]
ENSMMUG0000008979 protein O-fucosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76030]
ENSMMUG0000009199 glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]
ENSMMUG0000009201 abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]

ENSMMUG0000009377 tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]
ENSMMUG0000009567 glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]
ENSMMUG0000009684 kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]
ENSMMUG0000009884 hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]
ENSMMUG0000009886 Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]
ENSMMUG0000009887 MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]
ENSMMUG0000009889 PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]
ENSMMUG0000009890 FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]
ENSMMUG0000009953 ninein like [Source:VGNC Symbol;Acc:VGNC:75273]
ENSMMUG0000009960 cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]
ENSMMUG0000009976 uridine-cytidine kinase 1 [Source:VGNC Symbol;Acc:VGNC:78967]
ENSMMUG0000009988 transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]
ENSMMUG0000009995 arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]
ENSMMUG00000010028 leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]
ENSMMUG00000010363 ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]
ENSMMUG00000010451 inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]
ENSMMUG00000010556 Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]
ENSMMUG00000010824 SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]
ENSMMUG00000010826 ral guanine nucleotide dissociation stimulator like 3 [Source:VGNC Symbol;Acc:VGNC:76869]
ENSMMUG00000010886 strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]
ENSMMUG00000011064 synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]
ENSMMUG00000011344 solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]
ENSMMUG00000011411 sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]
ENSMMUG00000011427 syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]
ENSMMUG00000011798 eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]
ENSMMUG00000011951 KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]
ENSMMUG00000012001 transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]
ENSMMUG00000012147 collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]
ENSMMUG00000012178 calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]
ENSMMUG00000012228 ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]
ENSMMUG00000012349 thiosulfate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:78664]
ENSMMUG00000012668 centriolin [Source:VGNC Symbol;Acc:VGNC:71204]
ENSMMUG00000012856 nuclear FMR1 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75422]
ENSMMUG00000012959 solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]
ENSMMUG00000013099 pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]
ENSMMUG00000013540 RAN guanine nucleotide release factor [Source:VGNC Symbol;Acc:VGNC:76503]
ENSMMUG00000013713 beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]
ENSMMUG00000013740 minichromosome maintenance 8 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:74516]
ENSMMUG00000013877 otoancorin [Source:VGNC Symbol;Acc:VGNC:75624]
ENSMMUG00000013944 regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]
ENSMMUG00000013967 TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]
ENSMMUG00000014032 proline rich 36 [Source:NCBI gene;Acc:710443]
ENSMMUG00000014240 thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]
ENSMMUG00000014349 integrin subunit alpha X [Source:NCBI gene;Acc:100427850]
ENSMMUG00000014534 phosphatidylinositol transfer protein beta [Source:VGNC Symbol;Acc:VGNC:76006]
ENSMMUG00000014872 dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]
ENSMMUG00000014875 C2CD2 like [Source:VGNC Symbol;Acc:VGNC:70435]
ENSMMUG00000014897 ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]
ENSMMUG00000014986 testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]
ENSMMUG00000015258 glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]
ENSMMUG00000015303 ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]

ENSMMUG00000015744 zinc finger protein 302 [Source:NCBI gene;Acc:706279]
ENSMMUG00000015952 katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]
ENSMMUG00000016143 sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]
ENSMMUG00000016323 Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]
ENSMMUG00000016327 coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]
ENSMMUG00000016404 chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]
ENSMMUG00000016417 chromobox 8 [Source:NCBI gene;Acc:717514]
ENSMMUG00000016434 NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]
ENSMMUG00000016438 protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]
ENSMMUG00000016448 DLG associated protein 4 [Source:NCBI gene;Acc:702928]
ENSMMUG00000016549 matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]
ENSMMUG00000016593 adaptor related protein complex 1 subunit mu 2 [Source:NCBI gene;Acc:720531]
ENSMMUG00000016678 Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]
ENSMMUG00000016737 contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]
ENSMMUG00000016796 reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]
ENSMMUG00000016797 tubulin gamma 1 [Source:NCBI gene;Acc:710756]
ENSMMUG00000016826 MAPK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:74531]
ENSMMUG00000016827 UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]
ENSMMUG00000016876 integrin subunit alpha L [Source:NCBI gene;Acc:711945]
ENSMMUG00000016890 solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]
ENSMMUG00000017036 nicalin [Source:VGNC Symbol;Acc:VGNC:75032]
ENSMMUG00000017053 death associated protein kinase 1 [Source:VGNC Symbol;Acc:VGNC:71732]
ENSMMUG00000017209 C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]
ENSMMUG00000017224 catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]
ENSMMUG00000017242 MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]
ENSMMUG00000017256 calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]
ENSMMUG00000017654 arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]
ENSMMUG00000017758 mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]
ENSMMUG00000017822 periplakin [Source:VGNC Symbol;Acc:VGNC:76240]
ENSMMUG00000017906 DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]
ENSMMUG00000017971 nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]
ENSMMUG00000018011 sphingosine kinase 1 [Source:VGNC Symbol;Acc:VGNC:77858]
ENSMMUG00000018034 suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]
ENSMMUG00000018137 MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]
ENSMMUG00000018396 HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]
ENSMMUG00000018600 myosin light chain 4 [Source:VGNC Symbol;Acc:VGNC:75105]
ENSMMUG00000018648 zinc finger protein 594 [Source:NCBI gene;Acc:711492]
ENSMMUG00000018719 nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]
ENSMMUG00000018932 adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]
ENSMMUG00000018967 ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]
ENSMMUG00000018986 seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]
ENSMMUG00000019070 focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]
ENSMMUG00000019223 TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]
ENSMMUG00000019314 vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]
ENSMMUG00000019418 erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]
ENSMMUG00000019607 patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]
ENSMMUG00000019667 TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]
ENSMMUG00000019925 DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]
ENSMMUG00000020020 Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]
ENSMMUG00000020190 valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]
ENSMMUG00000020254 exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]

ENSMMUG00000020462 CD300e molecule [Source:NCBI gene;Acc:114673189]
ENSMMUG00000020580 RPGRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]
ENSMMUG00000020583 FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]
ENSMMUG00000020597 acyl-CoA synthetase short chain family member 1 [Source:VGNC Symbol;Acc:VGNC:69416]
ENSMMUG00000020633 suppressor of cancer cell invasion [Source:NCBI gene;Acc:712803]
ENSMMUG00000020668 cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]
ENSMMUG00000020799 BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]
ENSMMUG00000020868 homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]
ENSMMUG00000021019 E3 SUMO-protein ligase RanBP2 [Source:NCBI gene;Acc:694823]
ENSMMUG00000021039 X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]
ENSMMUG00000021436 latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]
ENSMMUG00000021476 BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]
ENSMMUG00000021477 ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]
ENSMMUG00000021904 cell division cycle 45 [Source:VGNC Symbol;Acc:VGNC:70800]
ENSMMUG00000022100 midnolin [Source:VGNC Symbol;Acc:VGNC:82186]
ENSMMUG00000022207 phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]
ENSMMUG00000022282 collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]
ENSMMUG00000022348 surfait 4 [Source:VGNC Symbol;Acc:VGNC:78060]
ENSMMUG00000022401 EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]
ENSMMUG00000022613 reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]
ENSMMUG00000022785 solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]
ENSMMUG00000022818 inhibitor of growth family member 1 [Source:VGNC Symbol;Acc:VGNC:73742]
ENSMMUG00000022914 RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]
ENSMMUG00000022996 HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]
ENSMMUG00000023263 mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]
ENSMMUG00000023286 UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]
ENSMMUG00000023303 ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]
ENSMMUG00000023403 GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]
ENSMMUG00000023622 BCR activator of RhoGEF and GTPase [Source:NCBI gene;Acc:709258]
ENSMMUG00000023636 importin 7 [Source:NCBI gene;Acc:704213]
ENSMMUG00000023717 MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]
ENSMMUG00000023797 post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]
ENSMMUG00000024170 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000025050 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000025150 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000026950 microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]
ENSMMUG00000027986 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000028906 Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]
ENSMMUG00000028907 insulin receptor [Source:NCBI gene;Acc:706009]
ENSMMUG00000028947 complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]
ENSMMUG00000028948 azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]
ENSMMUG00000030279 A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]
ENSMMUG00000030389
ENSMMUG00000030964 RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]
ENSMMUG00000031391 RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]
ENSMMUG00000038944
ENSMMUG00000038997 zygote arrest 1 like [Source:NCBI gene;Acc:100427970]
ENSMMUG00000039266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000039774 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000039943 adenylate cyclase 9 [Source:NCBI gene;Acc:706789]
ENSMMUG00000042407

ENSMMUG00000042598 transmembrane protein 18 [Source:NCBI gene;Acc:721515]
ENSMMUG00000042855 zinc finger SWIM-type containing 1 [Source:NCBI gene;Acc:717180]
ENSMMUG00000043134 coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]
ENSMMUG00000043396 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000043738
ENSMMUG00000044048 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000044080 mitochondrial ribosomal protein L54 [Source:NCBI gene;Acc:713878]
ENSMMUG00000044545 apolipoprotein A1 [Source:NCBI gene;Acc:696969]
ENSMMUG00000046169
ENSMMUG00000046417 chromobox 2 [Source:NCBI gene;Acc:717462]
ENSMMUG00000046883 autophagy related 4D cysteine peptidase [Source:NCBI gene;Acc:713111]
ENSMMUG00000046918
ENSMMUG00000048204 ephrin B3 [Source:NCBI gene;Acc:716257]
ENSMMUG00000048375 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048566 MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]
ENSMMUG00000049130
ENSMMUG00000049391
ENSMMUG00000049542
ENSMMUG00000049600
ENSMMUG00000049649 proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]
ENSMMUG00000049703 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050543
ENSMMUG00000050739
ENSMMUG00000050793 N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]
ENSMMUG00000050822 carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]
ENSMMUG00000051072
ENSMMUG00000051201 zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]
ENSMMUG00000051226 FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]
ENSMMUG00000051537
ENSMMUG00000051852 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051925
ENSMMUG00000051976
ENSMMUG00000052047
ENSMMUG00000052476 zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]
ENSMMUG00000052505 homeobox B9 [Source:NCBI gene;Acc:106994009]
ENSMMUG00000052607
ENSMMUG00000052785 extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]
ENSMMUG00000053083 C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]
ENSMMUG00000053257 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000053329
ENSMMUG00000053457 caspase 14 [Source:NCBI gene;Acc:718049]
ENSMMUG00000053611 stromal cell derived factor 2 [Source:NCBI gene;Acc:716189]
ENSMMUG00000053937
ENSMMUG00000053976 bile acid-CoA:amino acid N-acyltransferase [Source:NCBI gene;Acc:100429419]
ENSMMUG00000054111 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054211
ENSMMUG00000054472
ENSMMUG00000054736
ENSMMUG00000054746
ENSMMUG00000054803
ENSMMUG00000054811

ENSMMUG00000055048
ENSMMUG00000055241
ENSMMUG00000055324 homeobox B7 [Source:NCBI gene;Acc:697089]
ENSMMUG00000055352
ENSMMUG00000055379
ENSMMUG00000055747 cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]
ENSMMUG00000055775 transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]
ENSMMUG00000055811
ENSMMUG00000055820
ENSMMUG00000055897
ENSMMUG00000055963
ENSMMUG00000056009
ENSMMUG00000056093 shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]
ENSMMUG00000056186
ENSMMUG00000056248
ENSMMUG00000056381 forkhead box R1 [Source:NCBI gene;Acc:707285]
ENSMMUG00000056555
ENSMMUG00000056840
ENSMMUG00000056939
ENSMMUG00000056945
ENSMMUG00000056950
ENSMMUG00000057157
ENSMMUG00000057231 T-box transcription factor 21 [Source:NCBI gene;Acc:694044]
ENSMMUG00000057331 RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]
ENSMMUG00000057345 calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]
ENSMMUG00000057499
ENSMMUG00000057632
ENSMMUG00000057687
ENSMMUG00000057813
ENSMMUG00000057934
ENSMMUG00000058029 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000058095 visual system homeobox 1 [Source:NCBI gene;Acc:715973]
ENSMMUG00000058110
ENSMMUG00000058326 neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]
ENSMMUG00000058437
ENSMMUG00000058566
ENSMMUG00000058592
ENSMMUG00000058715
ENSMMUG00000058815 core-binding factor subunit beta [Source:NCBI gene;Acc:695767]
ENSMMUG00000058856 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000058916
ENSMMUG00000058928 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059175
ENSMMUG00000059188
ENSMMUG00000059332 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059341 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059374
ENSMMUG00000059436 interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]
ENSMMUG00000059700
ENSMMUG00000059778
ENSMMUG00000059897 myosin light chain 9 [Source:NCBI gene;Acc:709784]

ENSMMUG00000060102 cytokine receptor like factor 1 [Source:NCBI gene;Acc:720247]
ENSMMUG00000060289
ENSMMUG00000060399 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060497
ENSMMUG00000060502
ENSMMUG00000060761
ENSMMUG00000060767
ENSMMUG00000061222 adipocyte plasma membrane associated protein [Source:NCBI gene;Acc:704948]
ENSMMUG00000061335
ENSMMUG00000061391 ankyrin repeat domain 49 [Source:NCBI gene;Acc:697693]
ENSMMUG00000061424 ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]
ENSMMUG00000061533
ENSMMUG00000061896
ENSMMUG00000061940
ENSMMUG00000061951
ENSMMUG00000062037 stannin [Source:NCBI gene;Acc:711909]
ENSMMUG00000062091
ENSMMUG00000062283 homeobox B6 [Source:NCBI gene;Acc:106994013]
ENSMMUG00000062474 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062485 ESF1 nucleolar pre-rRNA processing protein homolog [Source:NCBI gene;Acc:694159]
ENSMMUG00000062583 olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]
ENSMMUG00000062702
ENSMMUG00000062781 chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]
ENSMMUG00000063140 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063238
ENSMMUG00000063590
ENSMMUG00000063622 mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]
ENSMMUG00000063639
ENSMMUG00000063779
ENSMMUG00000063914
ENSMMUG00000063988
ENSMMUG00000064052 CD300 molecule like family member d [Source:NCBI gene;Acc:703142]
ENSMMUG00000064095
ENSMMUG00000064229
ENSMMUG00000064391
ENSMMUG00000064401
ENSMMUG00000064463
ENSMMUG00000064520
ENSMMUG00000064532 mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]
ENSMMUG00000064554 leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]
ENSMMUG00000064610 long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]
ENSMMUG00000064920
ENSMMUG00000065025
ENSMMUG00000065054 G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]
ENSMMUG00000065094
ENSMMUG00000002384 IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]
ENSMMUG00000003568 testis expressed 101 [Source:VGNC Symbol;Acc:VGNC:79869]
ENSMMUG00000003819 nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]
ENSMMUG00000004616 plasminogen activator, urokinase receptor [Source:VGNC Symbol;Acc:VGNC:76163]
ENSMMUG00000005554 mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]
ENSMMUG00000006936 gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]

ENSMMUG0000007538	transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]
ENSMMUG00000010837	VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]
ENSMMUG00000011330	neuronal PAS domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75377]
ENSMMUG00000011332	Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]
ENSMMUG00000011627	interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]
ENSMMUG00000012787	acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]
ENSMMUG00000012797	zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]
ENSMMUG00000012801	zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]
ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]
ENSMMUG00000012938	SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]
ENSMMUG00000013477	creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]
ENSMMUG00000014273	cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]
ENSMMUG00000017927	protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]
ENSMMUG00000017930	striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]
ENSMMUG00000019032	EMAP like 2 [Source:NCBI gene;Acc:715009]
ENSMMUG00000021062	CD177 molecule [Source:VGNC Symbol;Acc:VGNC:70912]
ENSMMUG00000021269	Josephin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73919]
ENSMMUG00000022116	PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]
ENSMMUG00000028733	RAS related [Source:VGNC Symbol;Acc:VGNC:76937]
ENSMMUG00000038221	proteasome 26S subunit, non-ATPase 8 [Source:NCBI gene;Acc:721897]
ENSMMUG00000044817	nucleoporin 62 [Source:NCBI gene;Acc:100426308]
ENSMMUG00000048190	U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]
ENSMMUG00000048215	
ENSMMUG00000050799	
ENSMMUG00000054052	sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]
ENSMMUG00000054090	
ENSMMUG00000054473	activating transcription factor 5 [Source:NCBI gene;Acc:719150]
ENSMMUG00000055893	
ENSMMUG00000055976	CD99 antigen [Source:NCBI gene;Acc:106995376]
ENSMMUG00000057361	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000057454	transmembrane protein 160 [Source:NCBI gene;Acc:716996]
ENSMMUG00000058137	zinc finger protein 816 [Source:NCBI gene;Acc:720058]
ENSMMUG00000059229	CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]
ENSMMUG00000062296	potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]
ENSMMUG00000064146	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

Survivors – SD 3 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG00000000302	WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]
ENSMMUG00000000313	HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]
ENSMMUG00000000375	pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]
ENSMMUG00000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]
ENSMMUG00000000754	Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]

ENSMMUG0000000790 ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]
ENSMMUG0000000863 dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]
ENSMMUG0000000869 small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]
ENSMMUG0000000894 cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]
ENSMMUG0000000951 integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]
ENSMMUG0000000958 aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]
ENSMMUG0000001060 ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]
ENSMMUG0000001088 patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]
ENSMMUG0000001151 microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]
ENSMMUG0000001273 clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]
ENSMMUG0000001350 HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]
ENSMMUG0000001397 multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]
ENSMMUG0000001472 TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]
ENSMMUG0000001547 zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]
ENSMMUG0000001568 AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]
ENSMMUG0000001635 zinc finger protein 703 [Source:VGNC Symbol;Acc:VGNC:79552]
ENSMMUG0000001707 amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]
ENSMMUG0000001725 solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]
ENSMMUG0000001753 integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]
ENSMMUG0000001820 regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]
ENSMMUG0000001848 sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]
ENSMMUG0000001910 heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]
ENSMMUG0000001911 steroid receptor associated and regulated protein [Source:VGNC Symbol;Acc:VGNC:78008]
ENSMMUG0000001943 GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]
ENSMMUG0000001989 RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]
ENSMMUG0000002217 alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]
ENSMMUG0000002260 protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]
ENSMMUG0000002411 drebrin like [Source:NCBI gene;Acc:720621]
ENSMMUG0000002422 AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]
ENSMMUG0000002423 DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]
ENSMMUG0000002426 myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]
ENSMMUG0000002427 glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]
ENSMMUG0000002428 zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]
ENSMMUG0000002433 calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]
ENSMMUG0000002536 calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]
ENSMMUG0000002789 solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]
ENSMMUG0000002949 motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]
ENSMMUG0000002950 transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]
ENSMMUG0000003131 interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]
ENSMMUG0000003167 cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]
ENSMMUG0000003217 transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]
ENSMMUG0000003283 extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]
ENSMMUG0000003348 neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]
ENSMMUG0000003484 tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]
ENSMMUG0000003572 nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]
ENSMMUG0000003598 tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]
ENSMMUG0000003684 ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]
ENSMMUG0000003739 mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]
ENSMMUG0000003834 basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]
ENSMMUG0000004002 CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]
ENSMMUG0000004103 collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]

ENSMMUG00000004149 eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]
ENSMMUG00000004257 beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]
ENSMMUG00000004273 dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]
ENSMMUG00000004376 calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]
ENSMMUG00000004435 two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]
ENSMMUG00000004558 OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]
ENSMMUG00000004576 C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]
ENSMMUG00000004748 zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]
ENSMMUG00000004749 PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]
ENSMMUG00000004797 CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]
ENSMMUG00000004801 COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]
ENSMMUG00000004816 membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]
ENSMMUG00000004854 leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]
ENSMMUG00000004903 ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:VGNC Symbol;Acc:VGNC:72223]
ENSMMUG00000005070 ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]
ENSMMUG00000005108 RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]
ENSMMUG00000005208 RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]
ENSMMUG00000005297 proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]
ENSMMUG00000005302 BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]
ENSMMUG00000005504 nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]
ENSMMUG00000005745 EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]
ENSMMUG00000005920 N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]
ENSMMUG00000006285 antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]
ENSMMUG00000006468 FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]
ENSMMUG00000006530 ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]
ENSMMUG00000006659 aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]
ENSMMUG00000006786 protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]
ENSMMUG00000006851 SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]
ENSMMUG00000006855 acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]
ENSMMUG00000006893 D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]
ENSMMUG00000007366
ENSMMUG00000007387 G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]
ENSMMUG00000007422 spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]
ENSMMUG00000007528 chordin [Source:VGNC Symbol;Acc:VGNC:71042]
ENSMMUG00000007534 protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]
ENSMMUG00000007970 CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]
ENSMMUG00000008031 zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]
ENSMMUG00000008070 YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]
ENSMMUG00000008162 fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]
ENSMMUG00000008189 cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]
ENSMMUG00000008197 netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]
ENSMMUG00000008379 adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]
ENSMMUG00000008383 major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]
ENSMMUG00000008385 NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]
ENSMMUG00000008566 zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]
ENSMMUG00000008618 calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]
ENSMMUG00000008623 coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]
ENSMMUG00000008791 CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]
ENSMMUG00000008828 BEN domain containing 5 [Source:NCBI gene;Acc:711150]
ENSMMUG00000008854 natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]
ENSMMUG00000009197 myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]

ENSMMUG0000009312 leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]
ENSMMUG0000009361 fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]
ENSMMUG0000009441 abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]
ENSMMUG0000009499 mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]
ENSMMUG0000009508 TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]
ENSMMUG0000009559 minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]
ENSMMUG0000009564 NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]
ENSMMUG0000009788 tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]
ENSMMUG0000001007 CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]
ENSMMUG0000001008 IK cytokine [Source:VGNC Symbol;Acc:VGNC:73703]
ENSMMUG00000010137 microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]
ENSMMUG00000010180 PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]
ENSMMUG00000010308 cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]
ENSMMUG00000010309 septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]
ENSMMUG00000010313 kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]
ENSMMUG00000010316 HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]
ENSMMUG00000010318 phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]
ENSMMUG00000010466 solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]
ENSMMUG00000010940 telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]
ENSMMUG00000011209 BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]
ENSMMUG00000011513 versican [Source:VGNC Symbol;Acc:VGNC:79445]
ENSMMUG00000011661 integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]
ENSMMUG00000011682 ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]
ENSMMUG00000011789 hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]
ENSMMUG00000011878 poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]
ENSMMUG00000012065 tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]
ENSMMUG00000012356 serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]
ENSMMUG00000012405 transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]
ENSMMUG00000012526 glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]
ENSMMUG00000012560 HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]
ENSMMUG00000012635 zyxin [Source:VGNC Symbol;Acc:VGNC:78917]
ENSMMUG00000012697 AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]
ENSMMUG00000013044 selectin P [Source:VGNC Symbol;Acc:VGNC:77157]
ENSMMUG00000013129 peptidylprolyl isomerase H [Source:NCBI gene;Acc:697669]
ENSMMUG00000013146 claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]
ENSMMUG00000013150 MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]
ENSMMUG00000013387 cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]
ENSMMUG00000013450 TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]
ENSMMUG00000013644 potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]
ENSMMUG00000013871 WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]
ENSMMUG00000013966 legumain [Source:VGNC Symbol;Acc:VGNC:74274]
ENSMMUG00000014045 protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]
ENSMMUG00000014046 SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]
ENSMMUG00000014138 forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]
ENSMMUG00000014265 TAP binding protein like [Source:NCBI gene;Acc:712626]
ENSMMUG00000014508 potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]
ENSMMUG00000014658 ninein [Source:VGNC Symbol;Acc:VGNC:75177]
ENSMMUG00000014674 golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]
ENSMMUG00000014699
ENSMMUG00000014715 fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]
ENSMMUG00000014771 zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]

ENSMMUG00000014874 GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]
ENSMMUG00000014983 alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]
ENSMMUG00000015244 uncoupling protein 1 [Source:VGNC Symbol;Acc:VGNC:78708]
ENSMMUG00000015416 bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]
ENSMMUG00000015468 checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]
ENSMMUG00000015477 lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]
ENSMMUG00000015479 tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]
ENSMMUG00000015685 zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]
ENSMMUG00000015686 abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]
ENSMMUG00000015865 arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]
ENSMMUG00000015866 vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]
ENSMMUG00000015931 phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]
ENSMMUG00000016273 maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]
ENSMMUG00000016579 selectin L [Source:NCBI gene;Acc:701419]
ENSMMUG00000016580 selectin E [Source:VGNC Symbol;Acc:VGNC:77156]
ENSMMUG00000016582 chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]
ENSMMUG00000016929 proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]
ENSMMUG00000017056 Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]
ENSMMUG00000017129 solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]
ENSMMUG00000017189 regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]
ENSMMUG00000017370 signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]
ENSMMUG00000017510 membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]
ENSMMUG00000017605 mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]
ENSMMUG00000017627 B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]
ENSMMUG00000017660
ENSMMUG00000017701 myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]
ENSMMUG00000017983 tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]
ENSMMUG00000018235 chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]
ENSMMUG00000018237 plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]
ENSMMUG00000018239 centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]
ENSMMUG00000018245 EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]
ENSMMUG00000018246 transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]
ENSMMUG00000018345 phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]
ENSMMUG00000018478 interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]
ENSMMUG00000018492 TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]
ENSMMUG00000018619 DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]
ENSMMUG00000018664 collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]
ENSMMUG00000018790 activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]
ENSMMUG00000019040 hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]
ENSMMUG00000019041 hydroxysteroid 17-beta dehydrogenase 11 [Source:VGNC Symbol;Acc:VGNC:73431]
ENSMMUG00000019085 3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]
ENSMMUG00000019089 centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]
ENSMMUG00000019126 purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]
ENSMMUG00000019246 regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]
ENSMMUG00000019304 indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]
ENSMMUG00000019363 synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]
ENSMMUG00000019526 BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]
ENSMMUG00000019528 adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]
ENSMMUG00000019536 potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]
ENSMMUG00000019563 collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]
ENSMMUG00000019764 dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]

ENSMMUG00000019833 Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]
ENSMMUG00000019961 protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]
ENSMMUG00000019991 dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]
ENSMMUG00000020185 voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]
ENSMMUG00000020534 p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]
ENSMMUG00000020604 HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]
ENSMMUG00000020683 RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]
ENSMMUG00000020726 dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]
ENSMMUG00000020861 EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]
ENSMMUG00000021017 acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]
ENSMMUG00000021031 TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]
ENSMMUG00000021073 RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]
ENSMMUG00000021075 Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]
ENSMMUG00000021157 TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]
ENSMMUG00000021447 TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]
ENSMMUG00000021564 lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]
ENSMMUG00000021610 regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]
ENSMMUG00000021634 TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]
ENSMMUG00000021655 histone deacetylase 7 [Source:NCBI gene;Acc:718225]
ENSMMUG00000021736 single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]
ENSMMUG00000021972 diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]
ENSMMUG00000021988 N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]
ENSMMUG00000022003 multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]
ENSMMUG00000022247 osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]
ENSMMUG00000022313 activating transcription factor 7 [Source:NCBI gene;Acc:700403]
ENSMMUG00000022407 serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]
ENSMMUG00000022409 solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]
ENSMMUG00000022481 cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]
ENSMMUG00000022728 zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]
ENSMMUG00000022730 cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]
ENSMMUG00000022884 glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]
ENSMMUG00000022893 von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]
ENSMMUG00000022921 solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]
ENSMMUG00000023016 jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]
ENSMMUG00000023032 intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]
ENSMMUG00000023139 small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]
ENSMMUG00000023146 ASH1 like histone lysine methyltransferase [Source:NCBI gene;Acc:717778]
ENSMMUG00000023282 aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]
ENSMMUG00000023335 ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]
ENSMMUG00000023449 mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]
ENSMMUG00000023816 semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]
ENSMMUG00000024234 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000027543 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000031279 torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]
ENSMMUG00000031291 regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]
ENSMMUG00000031534 ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]
ENSMMUG00000031785
ENSMMUG00000032249 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]
ENSMMUG00000032429 forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]
ENSMMUG00000035943 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000038067

ENSMMUG00000038256 aquaporin 2 [Source:NCBI gene;Acc:711719]
ENSMMUG00000038524 olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]
ENSMMUG00000039009
ENSMMUG00000039101 pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]
ENSMMUG00000040274 MAGE family member A4 [Source:NCBI gene;Acc:710825]
ENSMMUG00000040393 zinc finger protein 655 [Source:NCBI gene;Acc:718811]
ENSMMUG00000041376 G antigen 10 [Source:NCBI gene;Acc:693330]
ENSMMUG00000042510 coagulation factor V [Source:NCBI gene;Acc:704695]
ENSMMUG00000042951 signal recognition particle 19 [Source:NCBI gene;Acc:693829]
ENSMMUG00000043675 Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]
ENSMMUG00000044257 MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]
ENSMMUG00000044429 glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]
ENSMMUG00000045093 cyclin B3 [Source:NCBI gene;Acc:694534]
ENSMMUG00000045513
ENSMMUG00000045609 CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]
ENSMMUG00000046186 stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]
ENSMMUG00000046478 WASH complex subunit 3 [Source:NCBI gene;Acc:697824]
ENSMMUG00000046550 coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]
ENSMMUG00000046774 RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]
ENSMMUG00000046969 Fc receptor like 3 [Source:NCBI gene;Acc:718801]
ENSMMUG00000047465 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000047729 inositol 1,4,5-trisphosphate receptor type 3 [Source:NCBI gene;Acc:718040]
ENSMMUG00000048066 trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]
ENSMMUG00000048824 eva-1 homolog C [Source:NCBI gene;Acc:708681]
ENSMMUG00000049232 AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]
ENSMMUG00000049267
ENSMMUG00000049494
ENSMMUG00000049678
ENSMMUG00000049735 allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]
ENSMMUG00000049894
ENSMMUG00000049935
ENSMMUG00000050132
ENSMMUG00000050339 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050405
ENSMMUG00000050465 ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]
ENSMMUG00000050495
ENSMMUG00000050505 small integral membrane protein 4 [Source:NCBI gene;Acc:696553]
ENSMMUG00000050549 lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]
ENSMMUG00000050585
ENSMMUG00000050608
ENSMMUG00000050696 taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]
ENSMMUG00000050868
ENSMMUG00000051037
ENSMMUG00000051329
ENSMMUG00000051408 myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]
ENSMMUG00000051677
ENSMMUG00000051975
ENSMMUG00000052073
ENSMMUG00000052252 protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]
ENSMMUG00000052530
ENSMMUG00000052777

ENSMMUG00000052854 mucin like 1 [Source:NCBI gene;Acc:100423942]
ENSMMUG00000052891
ENSMMUG00000053013
ENSMMUG00000053199
ENSMMUG00000053324 lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]
ENSMMUG00000053367 secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]
ENSMMUG00000053376
ENSMMUG00000053481
ENSMMUG00000053627
ENSMMUG00000053790
ENSMMUG00000053837
ENSMMUG00000054158 acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]
ENSMMUG00000054175
ENSMMUG00000054377
ENSMMUG00000054414
ENSMMUG00000054568
ENSMMUG00000054686
ENSMMUG00000054755 transmembrane protein 65 [Source:NCBI gene;Acc:705727]
ENSMMUG00000054942
ENSMMUG00000055018 sushi domain containing 6 [Source:NCBI gene;Acc:712719]
ENSMMUG00000055096
ENSMMUG00000055322 EPH receptor A1 [Source:NCBI gene;Acc:706295]
ENSMMUG00000055914
ENSMMUG00000056376
ENSMMUG00000056613
ENSMMUG00000056796 NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]
ENSMMUG00000056798
ENSMMUG00000056971 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000057196 pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]
ENSMMUG00000057539
ENSMMUG00000057570
ENSMMUG00000057702
ENSMMUG00000057703
ENSMMUG00000057785
ENSMMUG00000058176 b-defensin2-like [Source:NCBI gene;Acc:100169969]
ENSMMUG00000058187
ENSMMUG00000058423
ENSMMUG00000058432 zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]
ENSMMUG00000058536
ENSMMUG00000058587 family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]
ENSMMUG00000058817
ENSMMUG00000059036
ENSMMUG00000059318 urocortin 2 [Source:NCBI gene;Acc:106996925]
ENSMMUG00000059491
ENSMMUG00000059671
ENSMMUG00000059777
ENSMMUG00000059782
ENSMMUG00000059985
ENSMMUG00000060063
ENSMMUG00000060184 SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]
ENSMMUG00000060273 mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]

ENSMMUG00000060572
ENSMMUG00000060576
ENSMMUG00000060632
ENSMMUG00000060795
ENSMMUG00000060901
ENSMMUG00000060973
ENSMMUG00000061031
ENSMMUG00000061079 golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]
ENSMMUG00000061098
ENSMMUG00000061208 MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]
ENSMMUG00000061514 mucin-3A-like [Source:NCBI gene;Acc:100428559]
ENSMMUG00000061576
ENSMMUG00000061935
ENSMMUG00000062083
ENSMMUG00000062139
ENSMMUG00000062217 HD domain containing 3 [Source:NCBI gene;Acc:715621]
ENSMMUG00000062254
ENSMMUG00000062316 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062326
ENSMMUG00000062397
ENSMMUG00000062454
ENSMMUG00000062794
ENSMMUG00000063121
ENSMMUG00000063198
ENSMMUG00000063322
ENSMMUG00000063495
ENSMMUG00000063525
ENSMMUG00000063694 cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]
ENSMMUG00000063886 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063898 apolipoprotein F [Source:NCBI gene;Acc:712761]
ENSMMUG00000063981 nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]
ENSMMUG00000064557
ENSMMUG00000064694 AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]
ENSMMUG00000064707
ENSMMUG00000064730
ENSMMUG00000065247 opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]
ENSMMUG00000065295
ENSMMUG00000065319
ENSMMUG00000000196 niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]
ENSMMUG00000000293 catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]
ENSMMUG00000000327 fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]
ENSMMUG00000000396 intraflagellar transport 52 [Source:NCBI gene;Acc:694933]
ENSMMUG00000000553 bromodomain containing 1 [Source:VGNC Symbol;Acc:VGNC:70280]
ENSMMUG00000000582 NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]
ENSMMUG00000000603 Rho GDP dissociation inhibitor gamma [Source:VGNC Symbol;Acc:VGNC:70011]
ENSMMUG00000000700 CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]
ENSMMUG00000000740 spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]
ENSMMUG00000000842 RNA pseudouridine synthase domain containing 1 [Source:NCBI gene;Acc:722393]
ENSMMUG00000000874 carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]
ENSMMUG00000001036 coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]
ENSMMUG00000001058 tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]

ENSMMUG0000001220 adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]
ENSMMUG0000001269 chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]
ENSMMUG0000001387 p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]
ENSMMUG0000001475 transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]
ENSMMUG0000001545 aquaporin 7 [Source:NCBI gene;Acc:702836]
ENSMMUG0000001748 spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]
ENSMMUG0000001845 DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]
ENSMMUG0000001944 chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]
ENSMMUG0000002267 laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]
ENSMMUG0000002376 scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]
ENSMMUG0000002384 IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]
ENSMMUG0000002452 solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]
ENSMMUG0000002715 solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]
ENSMMUG0000002810 TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]
ENSMMUG0000002822 unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]
ENSMMUG0000002917 single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]
ENSMMUG0000002923 colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]
ENSMMUG0000002926 mediator complex subunit 24 [Source:NCBI gene;Acc:699536]
ENSMMUG0000002959 helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]
ENSMMUG0000003006 serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]
ENSMMUG0000003098 peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]
ENSMMUG0000003105 inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]
ENSMMUG0000003106 SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]
ENSMMUG0000003298 ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]
ENSMMUG0000003303 Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]
ENSMMUG0000003436 tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]
ENSMMUG0000003437 signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]
ENSMMUG0000003539 glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]
ENSMMUG0000003797 ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]
ENSMMUG0000003819 nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]
ENSMMUG0000003874 interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]
ENSMMUG0000003950 nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]
ENSMMUG0000003955 post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]
ENSMMUG0000003976 glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]
ENSMMUG0000004022 zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]
ENSMMUG0000004024 cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]
ENSMMUG0000004108 corticotropin releasing hormone receptor 1 [Source:VGNC Symbol;Acc:VGNC:81184]
ENSMMUG0000004283 calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]
ENSMMUG0000004332 tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]
ENSMMUG0000004587 gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]
ENSMMUG0000004794 DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]
ENSMMUG0000004820 pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]
ENSMMUG0000004877 heterogeneous nuclear ribonucleoprotein L [Source:VGNC Symbol;Acc:VGNC:81187]
ENSMMUG0000005086 homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]
ENSMMUG0000005215 Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]
ENSMMUG0000005482 lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]
ENSMMUG0000005483 ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]
ENSMMUG0000005486 protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]
ENSMMUG0000005488 coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]
ENSMMUG0000005595 RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]
ENSMMUG0000005666 phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]

ENSMMUG0000005776 atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]
ENSMMUG0000005793 ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]
ENSMMUG0000005989 GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]
ENSMMUG0000006066 phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]
ENSMMUG0000006091 contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]
ENSMMUG0000006093 enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]
ENSMMUG0000006180 tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]
ENSMMUG0000006181 WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]
ENSMMUG0000006568 basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]
ENSMMUG0000006655 myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]
ENSMMUG0000006738 L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]
ENSMMUG0000006758 cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]
ENSMMUG0000006853 crystallin beta B2 [Source:NCBI gene;Acc:100144420]
ENSMMUG0000006929 ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]
ENSMMUG0000006931 kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]
ENSMMUG0000006936 gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]
ENSMMUG0000007200 NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]
ENSMMUG0000007201 PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]
ENSMMUG0000007379 phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]
ENSMMUG0000007423 transcription factor Dp-1 [Source:NCBI gene;Acc:715345]
ENSMMUG0000007538 transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]
ENSMMUG0000007610 ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]
ENSMMUG0000007726 synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]
ENSMMUG0000007799 LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]
ENSMMUG0000007925 serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]
ENSMMUG0000008080 ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]
ENSMMUG0000008195 TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]
ENSMMUG0000008196 aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]
ENSMMUG0000008253 zinc finger protein 267 [Source:NCBI gene;Acc:641441]
ENSMMUG0000008384 solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]
ENSMMUG0000008387 dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]
ENSMMUG0000008770 UDP-glucose pyrophosphorylase 2 [Source:VGNC Symbol;Acc:VGNC:78712]
ENSMMUG0000008923 Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]
ENSMMUG0000009176 calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]
ENSMMUG0000009199 glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]
ENSMMUG0000009318 BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]
ENSMMUG0000009377 tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]
ENSMMUG0000009381 WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]
ENSMMUG0000009567 glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]
ENSMMUG0000009593 WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]
ENSMMUG0000009884 hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]
ENSMMUG0000009886 Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]
ENSMMUG0000009889 PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]
ENSMMUG0000009890 FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]
ENSMMUG0000009960 cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]
ENSMMUG0000009988 transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]
ENSMMUG0000009995 arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]
ENSMMUG00000010028 leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]
ENSMMUG00000010451 inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]
ENSMMUG00000010470 zinc finger with KRAB and SCAN domains 2 [Source:VGNC Symbol;Acc:VGNC:79529]
ENSMMUG00000010614 C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]

ENSMMUG00000010824 SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]
ENSMMUG00000010869 nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]
ENSMMUG00000011064 synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]
ENSMMUG00000011332 Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]
ENSMMUG00000011344 solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]
ENSMMUG00000011411 sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]
ENSMMUG00000011427 syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]
ENSMMUG00000011528 F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]
ENSMMUG00000011627 interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]
ENSMMUG00000011767 carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]
ENSMMUG00000011798 eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]
ENSMMUG00000011817 aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]
ENSMMUG00000011962 protein tyrosine phosphatase receptor type S [Source:VGNC Symbol;Acc:VGNC:76622]
ENSMMUG00000012039 cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]
ENSMMUG00000012228 ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]
ENSMMUG00000012349 thiosulfate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:78664]
ENSMMUG00000012523 flotillin 2 [Source:NCBI gene;Acc:114669752]
ENSMMUG00000012668 centriolin [Source:VGNC Symbol;Acc:VGNC:71204]
ENSMMUG00000012797 zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]
ENSMMUG00000012801 zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]
ENSMMUG00000012937 proline rich 12 [Source:NCBI gene;Acc:719344]
ENSMMUG00000012941 nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]
ENSMMUG00000012944 vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]
ENSMMUG00000012959 solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]
ENSMMUG00000013099 pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]
ENSMMUG00000013206 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta [Source:VGNC Symbol;Acc:VGNC:78819]
ENSMMUG00000013397 peroxiredoxin 5 [Source:NCBI gene;Acc:719764]
ENSMMUG00000013422 CEA cell adhesion molecule 4 [Source:NCBI gene;Acc:705453]
ENSMMUG00000013477 creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]
ENSMMUG00000013671 elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]
ENSMMUG00000013713 beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]
ENSMMUG00000013798 fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]
ENSMMUG00000013830 glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]
ENSMMUG00000013832 ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]
ENSMMUG00000013944 regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]
ENSMMUG00000013967 TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]
ENSMMUG00000014010 RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]
ENSMMUG00000014032 proline rich 36 [Source:NCBI gene;Acc:710443]
ENSMMUG00000014123 alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]
ENSMMUG00000014131 microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]
ENSMMUG00000014237 lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]
ENSMMUG00000014240 thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]
ENSMMUG00000014273 cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]
ENSMMUG00000014277 ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]
ENSMMUG00000014313 zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]
ENSMMUG00000014397 NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]
ENSMMUG00000014530 pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]
ENSMMUG00000014872 dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]
ENSMMUG00000015663 adaptor related protein complex 3 subunit delta 1 [Source:VGNC Symbol;Acc:VGNC:69969]
ENSMMUG00000015744 zinc finger protein 302 [Source:NCBI gene;Acc:706279]
ENSMMUG00000016143 sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]

ENSMMUG00000016323 Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]
ENSMMUG00000016327 coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]
ENSMMUG00000016417 chromobox 8 [Source:NCBI gene;Acc:717514]
ENSMMUG00000016438 protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]
ENSMMUG00000016448 DLG associated protein 4 [Source:NCBI gene;Acc:702928]
ENSMMUG00000016549 matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]
ENSMMUG00000016678 Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]
ENSMMUG00000016796 reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]
ENSMMUG00000016797 tubulin gamma 1 [Source:NCBI gene;Acc:710756]
ENSMMUG00000016890 solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]
ENSMMUG00000016894 ribosomal protein S25 [Source:NCBI gene;Acc:702593]
ENSMMUG00000017036 nicalin [Source:VGNC Symbol;Acc:VGNC:75032]
ENSMMUG00000017150 mitochondrial antiviral signaling protein [Source:VGNC Symbol;Acc:VGNC:74609]
ENSMMUG00000017224 catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]
ENSMMUG00000017256 calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]
ENSMMUG00000017280 TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]
ENSMMUG00000017287 PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]
ENSMMUG00000017561 solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]
ENSMMUG00000017758 mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]
ENSMMUG00000017810 structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]
ENSMMUG00000017822 periplakin [Source:VGNC Symbol;Acc:VGNC:76240]
ENSMMUG00000017906 DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]
ENSMMUG00000017945 septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]
ENSMMUG00000017946 rogdi atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]
ENSMMUG00000018034 suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]
ENSMMUG00000018137 MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]
ENSMMUG00000018144 C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]
ENSMMUG00000018151 membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]
ENSMMUG00000018275 docking protein 6 [Source:VGNC Symbol;Acc:VGNC:71915]
ENSMMUG00000018344 myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]
ENSMMUG00000018396 HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]
ENSMMUG00000018719 nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]
ENSMMUG00000018720 cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]
ENSMMUG00000018823 transmembrane protein 191C [Source:NCBI gene;Acc:697070]
ENSMMUG00000018879 exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]
ENSMMUG00000018932 adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]
ENSMMUG00000018967 ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]
ENSMMUG00000018986 seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]
ENSMMUG00000019070 focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]
ENSMMUG00000019314 vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]
ENSMMUG00000019418 erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]
ENSMMUG00000019690 SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]
ENSMMUG00000019925 DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]
ENSMMUG00000020020 Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]
ENSMMUG00000020226 WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]
ENSMMUG00000020254 exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]
ENSMMUG00000020462 CD300e molecule [Source:NCBI gene;Acc:114673189]
ENSMMUG00000020668 cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]
ENSMMUG00000020799 BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]
ENSMMUG00000020868 homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]
ENSMMUG00000020956 parvin alpha [Source:VGNC Symbol;Acc:VGNC:75605]

ENSMMUG00000021022 deoxynucleotidyltransferase terminal interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:71845]
ENSMMUG00000021039 X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]
ENSMMUG00000021408 family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]
ENSMMUG00000021415 BAI1 associated protein 3 [Source:VGNC Symbol;Acc:VGNC:70223]
ENSMMUG00000021428 lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]
ENSMMUG00000021477 ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]
ENSMMUG00000021553 dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]
ENSMMUG00000021554 PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]
ENSMMUG00000021661 leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]
ENSMMUG00000021664 lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]
ENSMMUG00000021877 protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]
ENSMMUG00000022100 midnolin [Source:VGNC Symbol;Acc:VGNC:82186]
ENSMMUG00000022345
ENSMMUG00000022401 EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]
ENSMMUG00000022613 reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]
ENSMMUG00000022931 NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]
ENSMMUG00000022996 HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]
ENSMMUG00000023263 mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]
ENSMMUG00000023286 UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]
ENSMMUG00000023297 solute carrier family 25 member 45 [Source:VGNC Symbol;Acc:VGNC:77576]
ENSMMUG00000023300 FERM domain containing 8 [Source:NCBI gene;Acc:716379]
ENSMMUG00000023303 ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]
ENSMMUG00000023370 DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]
ENSMMUG00000023403 GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]
ENSMMUG00000023477
ENSMMUG00000023479 latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]
ENSMMUG00000023599 chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]
ENSMMUG00000023636 importin 7 [Source:NCBI gene;Acc:704213]
ENSMMUG00000023717 MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]
ENSMMUG00000026950 microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]
ENSMMUG00000027986 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000028733 RAS related [Source:VGNC Symbol;Acc:VGNC:76937]
ENSMMUG00000028907 insulin receptor [Source:NCBI gene;Acc:706009]
ENSMMUG00000028947 complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]
ENSMMUG00000028948 azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]
ENSMMUG00000030279 A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]
ENSMMUG00000030964 RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]
ENSMMUG00000031163 membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]
ENSMMUG00000032142 complement C8 gamma chain [Source:VGNC Symbol;Acc:VGNC:70481]
ENSMMUG00000032809 mmi-mir-642 [Source:miRBase;Acc:MI0007885]
ENSMMUG00000038363 adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]
ENSMMUG00000038944
ENSMMUG00000039397 tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]
ENSMMUG00000039774 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000041101 protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]
ENSMMUG00000042598 transmembrane protein 18 [Source:NCBI gene;Acc:721515]
ENSMMUG00000044817 nucleoporin 62 [Source:NCBI gene;Acc:100426308]
ENSMMUG00000045187 CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]
ENSMMUG00000046169
ENSMMUG00000046417 chromobox 2 [Source:NCBI gene;Acc:717462]
ENSMMUG00000047219

ENSMMUG00000048204 ephrin B3 [Source:NCBI gene;Acc:716257]
ENSMMUG00000048375 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048395 chromobox 6 [Source:NCBI gene;Acc:702133]
ENSMMUG00000048566 MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]
ENSMMUG00000049130
ENSMMUG00000049355 ALX homeobox 4 [Source:NCBI gene;Acc:715652]
ENSMMUG00000049649 proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]
ENSMMUG00000049703 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049802 olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]
ENSMMUG00000049850 proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]
ENSMMUG00000050028
ENSMMUG00000050543
ENSMMUG00000050793 N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]
ENSMMUG00000050822 carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]
ENSMMUG00000051201 zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]
ENSMMUG00000051323 caspase-14-like [Source:NCBI gene;Acc:702430]
ENSMMUG00000051420 homeobox B5 [Source:NCBI gene;Acc:696732]
ENSMMUG00000051807
ENSMMUG00000051925
ENSMMUG00000052047
ENSMMUG00000052168
ENSMMUG00000052505 homeobox B9 [Source:NCBI gene;Acc:106994009]
ENSMMUG00000052569
ENSMMUG00000052607
ENSMMUG00000052851 solute carrier family 7 member 5 [Source:NCBI gene;Acc:695886]
ENSMMUG00000052867
ENSMMUG00000052954 Wnt family member 6 [Source:NCBI gene;Acc:700573]
ENSMMUG00000053083 C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]
ENSMMUG00000053378
ENSMMUG00000053457 caspase 14 [Source:NCBI gene;Acc:718049]
ENSMMUG00000053937
ENSMMUG00000054052 sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]
ENSMMUG00000054055 zinc finger protein 93 [Source:NCBI gene;Acc:720434]
ENSMMUG00000054473 activating transcription factor 5 [Source:NCBI gene;Acc:719150]
ENSMMUG00000054512
ENSMMUG00000054784
ENSMMUG00000055048
ENSMMUG00000055290 netrin 1 [Source:NCBI gene;Acc:717645]
ENSMMUG00000055324 homeobox B7 [Source:NCBI gene;Acc:697089]
ENSMMUG00000055352
ENSMMUG00000055379
ENSMMUG00000055775 transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]
ENSMMUG00000055811
ENSMMUG00000055820
ENSMMUG00000055897
ENSMMUG00000055973 phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]
ENSMMUG00000055976 CD99 antigen [Source:NCBI gene;Acc:106995376]
ENSMMUG00000056009
ENSMMUG00000056093 shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]
ENSMMUG00000056184
ENSMMUG00000056248

ENSMMUG00000056381 forkhead box R1 [Source:NCBI gene;Acc:707285]
ENSMMUG00000056555
ENSMMUG00000056840
ENSMMUG00000056945
ENSMMUG00000056950
ENSMMUG00000057095
ENSMMUG00000057157
ENSMMUG00000057179 cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]
ENSMMUG00000057274 hemoglobin subunit mu [Source:NCBI gene;Acc:694058]
ENSMMUG00000057329
ENSMMUG00000057331 RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]
ENSMMUG00000057361 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000057481
ENSMMUG00000057499
ENSMMUG00000057632
ENSMMUG00000057640 plakophilin-3-like [Source:NCBI gene;Acc:114669833]
ENSMMUG00000057687
ENSMMUG00000057825
ENSMMUG00000057934
ENSMMUG00000058237
ENSMMUG00000058311
ENSMMUG00000058437
ENSMMUG00000058566
ENSMMUG00000058592
ENSMMUG00000058621
ENSMMUG00000058885 formin binding protein 4 [Source:NCBI gene;Acc:712633]
ENSMMUG00000058916
ENSMMUG00000058928 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059175
ENSMMUG00000059182
ENSMMUG00000059188
ENSMMUG00000059229 CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]
ENSMMUG00000059436 interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]
ENSMMUG00000059504
ENSMMUG00000060000
ENSMMUG00000060289
ENSMMUG00000060435 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060502
ENSMMUG00000060517
ENSMMUG00000060533
ENSMMUG00000060761
ENSMMUG00000060767
ENSMMUG00000060879 homeobox B13 [Source:NCBI gene;Acc:697572]
ENSMMUG00000061335
ENSMMUG00000061342
ENSMMUG00000061424 ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]
ENSMMUG00000061533
ENSMMUG00000061896
ENSMMUG00000061995
ENSMMUG00000062037 stannin [Source:NCBI gene;Acc:711909]
ENSMMUG00000062091

ENSMMUG00000062283 homeobox B6 [Source:NCBI gene;Acc:106994013]
 ENSMMUG00000062781 chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]
 ENSMMUG00000062863
 ENSMMUG00000063622 mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]
 ENSMMUG00000063639
 ENSMMUG00000063759 transmembrane protein 185B [Source:NCBI gene;Acc:695744]
 ENSMMUG00000063779
 ENSMMUG00000063817 SRY-box transcription factor 9 [Source:NCBI gene;Acc:574208]
 ENSMMUG00000063914
 ENSMMUG00000063988
 ENSMMUG00000064005
 ENSMMUG00000064052 CD300 molecule like family member d [Source:NCBI gene;Acc:703142]
 ENSMMUG00000064146 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000064391
 ENSMMUG00000064532 mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]
 ENSMMUG00000064554 leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]
 ENSMMUG00000064650 SPEM family member 3 [Source:NCBI gene;Acc:106993878]
 ENSMMUG00000064920
 ENSMMUG00000065025
 ENSMMUG00000065054 G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]
 ENSMMUG00000065208
 ENSMMUG00000065269 Rho family GTPase 2 [Source:NCBI gene;Acc:712559]

Survivors – SD 3 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG00000000419	Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]
ENSMMUG00000000421	nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]
ENSMMUG00000000544	collagen type VI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:82084]
ENSMMUG00000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]
ENSMMUG00000000644	centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]
ENSMMUG00000000649	UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]
ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]
ENSMMUG00000000730	spectrin alpha, erythrocytic 1 [Source:VGNC Symbol;Acc:VGNC:77868]
ENSMMUG00000000790	ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]
ENSMMUG00000000808	melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]
ENSMMUG00000000869	small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]
ENSMMUG00000000917	aldo-keto reductase family 1 member B [Source:NCBI gene;Acc:705957]
ENSMMUG00000000951	integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]
ENSMMUG00000000953	family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]
ENSMMUG00000001028	SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]
ENSMMUG00000001060	ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]
ENSMMUG00000001350	HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]
ENSMMUG00000001380	outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]
ENSMMUG00000001616	peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]
ENSMMUG00000001702	succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]
ENSMMUG00000001707	amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]
ENSMMUG00000001725	solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]
ENSMMUG00000001753	integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]

ENSMMUG0000001848 sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]
ENSMMUG0000001910 heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]
ENSMMUG0000001911 steroid receptor associated and regulated protein [Source:VGNC Symbol;Acc:VGNC:78008]
ENSMMUG0000001943 GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]
ENSMMUG0000001967 late cornified envelope 5A [Source:VGNC Symbol;Acc:VGNC:74061]
ENSMMUG0000002211 doublecortin like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71670]
ENSMMUG0000002217 alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]
ENSMMUG0000002411 drebrin like [Source:NCBI gene;Acc:720621]
ENSMMUG0000002421 DNA polymerase mu [Source:VGNC Symbol;Acc:VGNC:81742]
ENSMMUG0000002422 AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]
ENSMMUG0000002423 DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]
ENSMMUG0000002426 myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]
ENSMMUG0000002427 glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]
ENSMMUG0000002428 zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]
ENSMMUG0000002430 YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]
ENSMMUG0000002789 solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]
ENSMMUG0000002886 Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]
ENSMMUG0000002949 motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]
ENSMMUG0000002950 transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]
ENSMMUG0000002953 MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]
ENSMMUG0000002995 tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]
ENSMMUG0000003131 interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]
ENSMMUG0000003133 interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]
ENSMMUG0000003167 cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]
ENSMMUG0000003199 CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]
ENSMMUG0000003283 extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]
ENSMMUG0000003457 protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]
ENSMMUG0000003572 nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]
ENSMMUG0000003598 tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]
ENSMMUG0000003739 mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]
ENSMMUG0000003750 PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]
ENSMMUG0000003827 albumin [Source:VGNC Symbol;Acc:VGNC:69782]
ENSMMUG0000003833 Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]
ENSMMUG0000004002 CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]
ENSMMUG0000004103 collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]
ENSMMUG0000004149 eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]
ENSMMUG0000004257 beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]
ENSMMUG0000004273 dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]
ENSMMUG0000004512 Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]
ENSMMUG0000004520 NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]
ENSMMUG0000004749 PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]
ENSMMUG0000004774 maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]
ENSMMUG0000004801 COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]
ENSMMUG0000005070 ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]
ENSMMUG0000005293 G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]
ENSMMUG0000005294 casein kinase 2 beta [Source:NCBI gene;Acc:715807]
ENSMMUG0000005297 proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]
ENSMMUG0000005302 BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]
ENSMMUG0000005303 apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]
ENSMMUG0000005380 zinc finger protein 827 [Source:NCBI gene;Acc:706018]
ENSMMUG0000005415 olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]

ENSMMUG00000005511 SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]
ENSMMUG00000005745 EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]
ENSMMUG00000005992 zinc metallopeptidase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]
ENSMMUG00000006029 odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]
ENSMMUG00000006237 carboxypeptidase Z [Source:VGNC Symbol;Acc:VGNC:71478]
ENSMMUG00000006285 antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]
ENSMMUG00000006530 ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]
ENSMMUG00000006766 RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]
ENSMMUG00000006786 protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]
ENSMMUG00000006836 chloride channel accessory 1 [Source:NCBI gene;Acc:574295]
ENSMMUG00000006851 SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]
ENSMMUG00000006980 septin 7 [Source:VGNC Symbol;Acc:VGNC:81759]
ENSMMUG00000007206 chromosome 3 C7orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70609]
ENSMMUG00000007208 G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]
ENSMMUG00000007366
ENSMMUG00000007387 G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]
ENSMMUG00000007422 spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]
ENSMMUG00000007528 chordin [Source:VGNC Symbol;Acc:VGNC:71042]
ENSMMUG00000007773 solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]
ENSMMUG00000007970 CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]
ENSMMUG00000008031 zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]
ENSMMUG00000008070 YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]
ENSMMUG00000008162 fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]
ENSMMUG00000008189 cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]
ENSMMUG00000008379 adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]
ENSMMUG00000008383 major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]
ENSMMUG00000008385 NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]
ENSMMUG00000008518 phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]
ENSMMUG00000008791 CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]
ENSMMUG00000008828 BEN domain containing 5 [Source:NCBI gene;Acc:711150]
ENSMMUG00000008854 natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]
ENSMMUG00000009040 cornulin [Source:VGNC Symbol;Acc:VGNC:71397]
ENSMMUG00000009066 60S ribosomal protein L26 [Source:NCBI gene;Acc:696134]
ENSMMUG00000009184 myelin protein zero like 1 [Source:NCBI gene;Acc:698437]
ENSMMUG00000009197 myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]
ENSMMUG00000009437 zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]
ENSMMUG00000009499 mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]
ENSMMUG00000009508 TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]
ENSMMUG00000009564 NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]
ENSMMUG00000009816 exosome component 9 [Source:VGNC Symbol;Acc:VGNC:72477]
ENSMMUG00000010007 CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]
ENSMMUG00000010308 cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]
ENSMMUG00000010309 septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]
ENSMMUG00000010313 kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]
ENSMMUG00000010316 HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]
ENSMMUG00000010318 phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]
ENSMMUG00000010466 solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]
ENSMMUG00000010632 family with sequence similarity 81 member B [Source:VGNC Symbol;Acc:VGNC:72365]
ENSMMUG00000010940 telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]
ENSMMUG00000011026 dynein axonemal heavy chain 5 [Source:VGNC Symbol;Acc:VGNC:71942]
ENSMMUG00000011513 versican [Source:VGNC Symbol;Acc:VGNC:79445]

ENSMMUG00000011633 kallikrein B1 [Source:VGNC Symbol;Acc:VGNC:74195]
ENSMMUG00000011634 coagulation factor XI [Source:VGNC Symbol;Acc:VGNC:72460]
ENSMMUG00000011682 ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]
ENSMMUG00000011788 zinc finger protein 212 [Source:VGNC Symbol;Acc:VGNC:78418]
ENSMMUG00000011878 poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]
ENSMMUG00000011914 prospero homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76427]
ENSMMUG00000012405 transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]
ENSMMUG00000012526 glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]
ENSMMUG00000012635 zyxin [Source:VGNC Symbol;Acc:VGNC:78917]
ENSMMUG00000012697 AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]
ENSMMUG00000013044 selectin P [Source:VGNC Symbol;Acc:VGNC:77157]
ENSMMUG00000013136 Y-box binding protein 1 [Source:NCBI gene;Acc:700140]
ENSMMUG00000013283 cadherin related family member 2 [Source:NCBI gene;Acc:697249]
ENSMMUG00000013284 G protein regulated inducer of neurite outgrowth 1 [Source:VGNC Symbol;Acc:VGNC:72998]
ENSMMUG00000013330 ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]
ENSMMUG00000013447 adaptor related protein complex 4 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69974]
ENSMMUG00000013450 TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]
ENSMMUG00000013644 potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]
ENSMMUG00000014045 protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]
ENSMMUG00000014046 SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]
ENSMMUG00000014508 potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]
ENSMMUG00000014573 dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]
ENSMMUG00000014674 golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]
ENSMMUG00000014699
ENSMMUG00000014707 cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]
ENSMMUG00000014720 NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]
ENSMMUG00000014738 bromodomain containing 9 [Source:VGNC Symbol;Acc:VGNC:70386]
ENSMMUG00000014828 heparan sulfate proteoglycan 2 [Source:VGNC Symbol;Acc:VGNC:73534]
ENSMMUG00000014868 OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]
ENSMMUG00000014874 GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]
ENSMMUG00000014876 nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]
ENSMMUG00000015097 tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]
ENSMMUG00000015329 MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]
ENSMMUG00000015416 bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]
ENSMMUG00000015479 tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]
ENSMMUG00000015555 ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]
ENSMMUG00000015685 zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]
ENSMMUG00000015686 abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]
ENSMMUG00000015693 lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]
ENSMMUG00000015716 protein phosphatase with EF-hand domain 2 [Source:VGNC Symbol;Acc:VGNC:76233]
ENSMMUG00000016096 lamin A/C [Source:VGNC Symbol;Acc:VGNC:74427]
ENSMMUG00000016099 hedgehog acyltransferase [Source:NCBI gene;Acc:712333]
ENSMMUG00000016111 chromosome 1 C1orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70432]
ENSMMUG00000016273 maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]
ENSMMUG00000016376 mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]
ENSMMUG00000016476 TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]
ENSMMUG00000016579 selectin L [Source:NCBI gene;Acc:701419]
ENSMMUG00000016580 selectin E [Source:VGNC Symbol;Acc:VGNC:77156]
ENSMMUG00000016582 chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]
ENSMMUG00000016999 KIAA0232 [Source:VGNC Symbol;Acc:VGNC:73922]
ENSMMUG00000017056 Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]

ENSMMUG00000017189 regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]
ENSMMUG00000017370 signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]
ENSMMUG00000017501 N-acyl ethanolamine acid amidase [Source:VGNC Symbol;Acc:VGNC:75068]
ENSMMUG00000017503 SDA1 domain containing 1 [Source:NCBI gene;Acc:700863]
ENSMMUG00000017510 membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]
ENSMMUG00000017605 mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]
ENSMMUG00000017701 myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]
ENSMMUG00000017740 sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]
ENSMMUG00000017983 tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]
ENSMMUG00000018235 chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]
ENSMMUG00000018245 EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]
ENSMMUG00000018246 transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]
ENSMMUG00000018478 interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]
ENSMMUG00000018549 zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]
ENSMMUG00000018619 DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]
ENSMMUG00000018664 collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]
ENSMMUG00000018743 ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]
ENSMMUG00000018790 activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]
ENSMMUG00000019040 hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]
ENSMMUG00000019085 3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]
ENSMMUG00000019089 centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]
ENSMMUG00000019246 regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]
ENSMMUG00000019441 solute carrier family 12 member 7 [Source:VGNC Symbol;Acc:VGNC:77390]
ENSMMUG00000019527 DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]
ENSMMUG00000019528 adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]
ENSMMUG00000019563 collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]
ENSMMUG00000019593 synaptophysin like 1 [Source:VGNC Symbol;Acc:VGNC:78073]
ENSMMUG00000019764 dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]
ENSMMUG00000019833 Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]
ENSMMUG00000019835 CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]
ENSMMUG00000019933 TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]
ENSMMUG00000019961 protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]
ENSMMUG00000019991 dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]
ENSMMUG00000020558 serine/threonine kinase 38 [Source:VGNC Symbol;Acc:VGNC:78155]
ENSMMUG00000020679 myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]
ENSMMUG00000020683 RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]
ENSMMUG00000020726 dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]
ENSMMUG00000020861 EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]
ENSMMUG00000020916 coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]
ENSMMUG00000020979 inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]
ENSMMUG00000020980 ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]
ENSMMUG00000021017 acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]
ENSMMUG00000021073 RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]
ENSMMUG00000021075 Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]
ENSMMUG00000021357 zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]
ENSMMUG00000021449 vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]
ENSMMUG00000021972 diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]
ENSMMUG00000021988 N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]
ENSMMUG00000022003 multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]
ENSMMUG00000022246 PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]
ENSMMUG00000022247 osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]

ENSMMUG00000022381 prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]
ENSMMUG00000022437 peptidyl arginine deiminase 6 [Source:VGNC Symbol;Acc:VGNC:75657]
ENSMMUG00000022513 glutamate metabotropic receptor 3 [Source:VGNC Symbol;Acc:VGNC:73287]
ENSMMUG00000022633 replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]
ENSMMUG00000022728 zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]
ENSMMUG00000022884 glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]
ENSMMUG00000022921 solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]
ENSMMUG00000023045 zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]
ENSMMUG00000023310 tetraspanin 12 [Source:VGNC Symbol;Acc:VGNC:79328]
ENSMMUG00000023335 ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]
ENSMMUG00000023345 adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]
ENSMMUG00000023449 mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]
ENSMMUG00000023598 sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]
ENSMMUG00000024537
ENSMMUG00000025918 small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]
ENSMMUG00000026975 mml-mir-206 [Source:miRBase;Acc:MI0007667]
ENSMMUG00000027541 Small nucleolar RNA SNORA70 [Source:RFAM;Acc:RF00156]
ENSMMUG00000031279 torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]
ENSMMUG00000031291 regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]
ENSMMUG00000031534 ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]
ENSMMUG00000031540 purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]
ENSMMUG00000031684 KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]
ENSMMUG00000031785
ENSMMUG00000032180 RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]
ENSMMUG00000032249 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]
ENSMMUG00000032659 mml-mir-711 [Source:miRBase;Acc:MI0012553]
ENSMMUG00000033121 Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]
ENSMMUG00000035160 U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]
ENSMMUG00000035943 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000038524 olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]
ENSMMUG00000039009
ENSMMUG00000039101 pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]
ENSMMUG00000040393 zinc finger protein 655 [Source:NCBI gene;Acc:718811]
ENSMMUG00000040888 complement C3b/C4b receptor 1 like [Source:HGNC Symbol;Acc:HGNC:2335]
ENSMMUG00000041519 zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]
ENSMMUG00000042510 coagulation factor V [Source:NCBI gene;Acc:704695]
ENSMMUG00000042618 involucrin [Source:NCBI gene;Acc:713728]
ENSMMUG00000043675 Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]
ENSMMUG00000044257 MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]
ENSMMUG00000044429 glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]
ENSMMUG00000045513
ENSMMUG00000045609 CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]
ENSMMUG00000045654 tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]
ENSMMUG00000046550 coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]
ENSMMUG00000046969 Fc receptor like 3 [Source:NCBI gene;Acc:718801]
ENSMMUG00000048824 eva-1 homolog C [Source:NCBI gene;Acc:708681]
ENSMMUG00000049297
ENSMMUG00000049298 cholecystokinin A receptor [Source:NCBI gene;Acc:694742]
ENSMMUG00000049432 olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]
ENSMMUG00000049494
ENSMMUG00000049551

ENSMMUG00000049678
ENSMMUG00000049735 allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]
ENSMMUG00000049755 leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]
ENSMMUG00000049913
ENSMMUG00000049935
ENSMMUG00000050132
ENSMMUG00000050339 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050405
ENSMMUG00000050419 ADAM metalloproteinase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]
ENSMMUG00000050465 ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]
ENSMMUG00000050505 small integral membrane protein 4 [Source:NCBI gene;Acc:696553]
ENSMMUG00000051230
ENSMMUG00000051329
ENSMMUG00000051408 myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]
ENSMMUG00000051645
ENSMMUG00000051677
ENSMMUG00000051816 keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]
ENSMMUG00000051975
ENSMMUG00000052228 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052474
ENSMMUG00000052780
ENSMMUG00000052961
ENSMMUG00000053324 lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]
ENSMMUG00000053367 secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]
ENSMMUG00000053516
ENSMMUG00000053561
ENSMMUG00000053601
ENSMMUG00000053627
ENSMMUG00000053656
ENSMMUG00000053790
ENSMMUG00000053984
ENSMMUG00000054158 acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]
ENSMMUG00000054175
ENSMMUG00000054237 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000054286
ENSMMUG00000054414
ENSMMUG00000054634 late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]
ENSMMUG00000054686
ENSMMUG00000055022 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055038
ENSMMUG00000055126
ENSMMUG00000055199 cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]
ENSMMUG00000055256 family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]
ENSMMUG00000055266 late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]
ENSMMUG00000055322 EPH receptor A1 [Source:NCBI gene;Acc:706295]
ENSMMUG00000055441
ENSMMUG00000055710 taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]
ENSMMUG00000055914
ENSMMUG00000056024
ENSMMUG00000056158
ENSMMUG00000056168

ENSMMUG00000056266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056393
ENSMMUG00000056511
ENSMMUG00000056548 coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]
ENSMMUG00000056613
ENSMMUG00000056796 NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]
ENSMMUG00000056798
ENSMMUG00000056841
ENSMMUG00000056924 G protein-coupled receptor 149 [Source:NCBI gene;Acc:106997054]
ENSMMUG00000056971 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000057363
ENSMMUG00000057539
ENSMMUG00000057560
ENSMMUG00000057702
ENSMMUG00000057703
ENSMMUG00000057983
ENSMMUG00000058187
ENSMMUG00000058229 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000058370 taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]
ENSMMUG00000058423
ENSMMUG00000058432 zinc finger DHHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]
ENSMMUG00000058472 late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]
ENSMMUG00000058534
ENSMMUG00000058557
ENSMMUG00000058587 family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]
ENSMMUG00000058817
ENSMMUG00000058881 bone morphogenetic protein 8b [Source:NCBI gene;Acc:100427030]
ENSMMUG00000059117 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059318 urocortin 2 [Source:NCBI gene;Acc:106996925]
ENSMMUG00000059428 olfactory receptor 2V2 [Source:NCBI gene;Acc:707790]
ENSMMUG00000059472 filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]
ENSMMUG00000059671
ENSMMUG00000059788
ENSMMUG00000060184 SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]
ENSMMUG00000060273 mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]
ENSMMUG00000060308
ENSMMUG00000060366
ENSMMUG00000060496 translocase of outer mitochondrial membrane 40 like [Source:NCBI gene;Acc:100426891]
ENSMMUG00000060555
ENSMMUG00000060576
ENSMMUG00000060581
ENSMMUG00000060626 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000060632
ENSMMUG00000060760
ENSMMUG00000060795
ENSMMUG00000060812 autophagy related 12 [Source:NCBI gene;Acc:696765]
ENSMMUG00000060901
ENSMMUG00000061031
ENSMMUG00000061098
ENSMMUG00000061151
ENSMMUG00000061194

ENSMMUG00000061208 MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]
ENSMMUG00000061474
ENSMMUG00000061785
ENSMMUG00000061787
ENSMMUG00000062092
ENSMMUG00000062294
ENSMMUG00000062316 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062326
ENSMMUG00000062454
ENSMMUG00000062496
ENSMMUG00000062522
ENSMMUG00000062794
ENSMMUG00000062837
ENSMMUG00000062996
ENSMMUG00000063198
ENSMMUG00000063351 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063658 leucine rich repeat neuronal 2 [Source:NCBI gene;Acc:100429709]
ENSMMUG00000063981 nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]
ENSMMUG00000064014
ENSMMUG00000064174
ENSMMUG00000064707
ENSMMUG00000064824 gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]
ENSMMUG00000064915 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065005 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065295
ENSMMUG00000000023 prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]
ENSMMUG00000000152 transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]
ENSMMUG00000000302 WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]
ENSMMUG00000000313 HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]
ENSMMUG00000000327 fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]
ENSMMUG00000000375 pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]
ENSMMUG00000000376 bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]
ENSMMUG00000000754 Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]
ENSMMUG00000000776 zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]
ENSMMUG00000000803 signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]
ENSMMUG00000000863 dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]
ENSMMUG00000000958 aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]
ENSMMUG00000001088 patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]
ENSMMUG00000001151 microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]
ENSMMUG00000001187 mitogen-activated protein kinase 15 [Source:VGNC Symbol;Acc:VGNC:74570]
ENSMMUG00000001273 clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]
ENSMMUG00000001338 antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]
ENSMMUG00000001387 p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]
ENSMMUG00000001472 TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]
ENSMMUG00000001475 transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]
ENSMMUG00000001536 glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]
ENSMMUG00000001547 zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]
ENSMMUG00000001739 ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]
ENSMMUG00000001745 oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]
ENSMMUG00000001761 myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]
ENSMMUG00000001820 regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]

ENSMMUG00000001902 TruB pseudouridine synthase family member 1 [Source:VGNC Symbol;Acc:VGNC:79005]
ENSMMUG00000001989 RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]
ENSMMUG00000002260 protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]
ENSMMUG00000002536 calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]
ENSMMUG00000002563 zinc finger DHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]
ENSMMUG00000002566 selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]
ENSMMUG00000002679 lactate dehydrogenase B [Source:NCBI gene;Acc:706110]
ENSMMUG00000002917 single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]
ENSMMUG00000002963 Rho GTPase activating protein 32 [Source:VGNC Symbol;Acc:VGNC:69855]
ENSMMUG00000003217 transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]
ENSMMUG00000003348 neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]
ENSMMUG00000003484 tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]
ENSMMUG00000003584 mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]
ENSMMUG00000003591 pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]
ENSMMUG00000003658 autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]
ENSMMUG00000003684 ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]
ENSMMUG00000003834 basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]
ENSMMUG00000003874 interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]
ENSMMUG00000003950 nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]
ENSMMUG00000003955 post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]
ENSMMUG00000003976 glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]
ENSMMUG00000004022 zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]
ENSMMUG00000004024 cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]
ENSMMUG00000004274 myotubularin related protein 8 [Source:VGNC Symbol;Acc:VGNC:74974]
ENSMMUG00000004309 APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]
ENSMMUG00000004330 peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]
ENSMMUG00000004332 tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]
ENSMMUG00000004376 calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]
ENSMMUG00000004470 CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]
ENSMMUG00000004558 OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]
ENSMMUG00000004748 zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]
ENSMMUG00000004797 CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]
ENSMMUG00000004816 membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]
ENSMMUG00000004854 leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]
ENSMMUG00000004903 ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:VGNC Symbol;Acc:VGNC:72223]
ENSMMUG00000004910 dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]
ENSMMUG00000004982 activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]
ENSMMUG00000005106 unc-45 myosin chaperone A [Source:VGNC Symbol;Acc:VGNC:79858]
ENSMMUG00000005108 RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]
ENSMMUG00000005150 CD163 molecule [Source:VGNC Symbol;Acc:VGNC:70752]
ENSMMUG00000005208 RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]
ENSMMUG00000005255 TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]
ENSMMUG00000005440 ELMO domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72109]
ENSMMUG00000005478 trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]
ENSMMUG00000005480 carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]
ENSMMUG00000005482 lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]
ENSMMUG00000005483 ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]
ENSMMUG00000005486 protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]
ENSMMUG00000005488 coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]
ENSMMUG00000005504 nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]
ENSMMUG00000005532 male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]

ENSMMUG0000005920 N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]
ENSMMUG0000006180 tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]
ENSMMUG0000006181 WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]
ENSMMUG0000006233 adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]
ENSMMUG0000006468 FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]
ENSMMUG0000006470 complement C1r subcomponent [Source:NCBI gene;Acc:722133]
ENSMMUG0000006568 basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]
ENSMMUG0000006655 myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]
ENSMMUG0000006659 aldehyde dehydrogenase 1 family member A3 [Source:VGNC Symbol;Acc:VGNC:81353]
ENSMMUG0000006689 nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]
ENSMMUG0000006692 signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]
ENSMMUG0000006723 solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]
ENSMMUG0000006758 cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]
ENSMMUG0000006855 acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]
ENSMMUG0000006893 D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]
ENSMMUG0000006929 ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]
ENSMMUG0000006931 kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]
ENSMMUG0000006997 thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]
ENSMMUG0000007140 MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]
ENSMMUG0000007534 protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]
ENSMMUG0000007603 coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]
ENSMMUG0000008007 multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]
ENSMMUG0000008384 solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]
ENSMMUG0000008387 dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]
ENSMMUG0000008474 transforming growth factor beta regulator 1 [Source:VGNC Symbol;Acc:VGNC:78239]
ENSMMUG0000008529 chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]
ENSMMUG0000008618 calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]
ENSMMUG0000008623 coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]
ENSMMUG0000008652 coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]
ENSMMUG0000008758 zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]
ENSMMUG0000008875 solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]
ENSMMUG0000008923 Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]
ENSMMUG0000008964 D-glutamate cyclase [Source:VGNC Symbol;Acc:VGNC:71685]
ENSMMUG0000009308 histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]
ENSMMUG0000009312 leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]
ENSMMUG0000009361 fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]
ENSMMUG0000009441 abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]
ENSMMUG0000009559 minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]
ENSMMUG0000009593 WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]
ENSMMUG0000009622 glypican 3 [Source:VGNC Symbol;Acc:VGNC:73117]
ENSMMUG0000009668 transmembrane and coiled-coil domains 5A [Source:VGNC Symbol;Acc:VGNC:79725]
ENSMMUG0000009794 protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]
ENSMMUG00000010137 microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]
ENSMMUG00000010173 presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]
ENSMMUG00000010180 PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]
ENSMMUG00000010451 inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]
ENSMMUG00000010521 ADP ribosylation factor like GTPase 5A [Source:VGNC Symbol;Acc:VGNC:70017]
ENSMMUG00000010526 calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]
ENSMMUG00000010881 cytochrome P450, family 26, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:699519]
ENSMMUG00000011528 F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]
ENSMMUG00000011564 transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]

ENSMMUG00000011650 dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]
ENSMMUG00000011661 integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]
ENSMMUG00000011774 integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]
ENSMMUG00000011777 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:82108]
ENSMMUG00000011789 hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]
ENSMMUG00000011817 aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]
ENSMMUG00000012065 tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]
ENSMMUG00000012316 CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]
ENSMMUG00000012356 serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]
ENSMMUG00000012560 HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]
ENSMMUG00000012941 nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]
ENSMMUG00000012944 vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]
ENSMMUG00000013146 claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]
ENSMMUG00000013150 MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]
ENSMMUG00000013160 DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]
ENSMMUG00000013176 NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]
ENSMMUG00000013251 xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]
ENSMMUG00000013270 RNA binding protein, mRNA processing factor 2 [Source:VGNC Symbol;Acc:VGNC:76511]
ENSMMUG00000013387 cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]
ENSMMUG00000013493 ornithine carbamoyltransferase [Source:VGNC Symbol;Acc:VGNC:75723]
ENSMMUG00000013696 myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]
ENSMMUG00000013798 fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]
ENSMMUG00000013830 glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]
ENSMMUG00000013832 ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]
ENSMMUG00000013871 WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]
ENSMMUG00000014131 microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]
ENSMMUG00000014227 cholinergic receptor muscarinic 5 [Source:VGNC Symbol;Acc:VGNC:71044]
ENSMMUG00000014237 lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]
ENSMMUG00000014265 TAP binding protein like [Source:NCBI gene;Acc:712626]
ENSMMUG00000014277 ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]
ENSMMUG00000014397 NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]
ENSMMUG00000014530 pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]
ENSMMUG00000014658 ninein [Source:VGNC Symbol;Acc:VGNC:75177]
ENSMMUG00000014702 TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]
ENSMMUG00000014715 fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]
ENSMMUG00000014766 neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]
ENSMMUG00000014771 zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]
ENSMMUG00000014866 hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]
ENSMMUG00000014872 dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]
ENSMMUG00000014983 alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]
ENSMMUG00000015394 WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]
ENSMMUG00000015468 checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]
ENSMMUG00000015865 arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]
ENSMMUG00000015866 vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]
ENSMMUG00000015873 RAD51 paralog B [Source:VGNC Symbol;Acc:VGNC:76647]
ENSMMUG00000015926 2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]
ENSMMUG00000015931 phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]
ENSMMUG00000016069 cubilin [Source:VGNC Symbol;Acc:VGNC:82132]
ENSMMUG00000016652 cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]
ENSMMUG00000016737 contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]
ENSMMUG00000016929 proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]

ENSMMUG00000017127 carbohydrate sulfotransferase 11 [Source:VGNC Symbol;Acc:VGNC:82123]
ENSMMUG00000017129 solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]
ENSMMUG00000017280 TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]
ENSMMUG00000017287 PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]
ENSMMUG00000017380 neuregulin 3 [Source:NCBI gene;Acc:699268]
ENSMMUG00000017450 MOB kinase activator 2 [Source:NCBI gene;Acc:720951]
ENSMMUG00000017627 B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]
ENSMMUG00000017660
ENSMMUG00000017810 structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]
ENSMMUG00000018030 endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]
ENSMMUG00000018034 suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]
ENSMMUG00000018144 C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]
ENSMMUG00000018151 membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]
ENSMMUG00000018237 plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]
ENSMMUG00000018239 centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]
ENSMMUG00000018298 killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]
ENSMMUG00000018345 phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]
ENSMMUG00000018471 serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]
ENSMMUG00000018492 TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]
ENSMMUG00000018787 PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]
ENSMMUG00000019126 purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]
ENSMMUG00000019304 indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]
ENSMMUG00000019306 indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]
ENSMMUG00000019363 synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]
ENSMMUG00000019526 BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]
ENSMMUG00000019607 patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]
ENSMMUG00000019690 SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]
ENSMMUG00000019839 lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]
ENSMMUG00000020010 cadherin 17 [Source:VGNC Symbol;Acc:VGNC:70810]
ENSMMUG00000020177 membrane spanning 4-domains A4A [Source:NCBI gene;Acc:698027]
ENSMMUG00000020185 voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]
ENSMMUG00000020534 p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]
ENSMMUG00000020604 HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]
ENSMMUG00000020743 centrin 2 [Source:NCBI gene;Acc:693376]
ENSMMUG00000021039 X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]
ENSMMUG00000021157 TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]
ENSMMUG00000021428 lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]
ENSMMUG00000021564 lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]
ENSMMUG00000021610 regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]
ENSMMUG00000021634 TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]
ENSMMUG00000021661 leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]
ENSMMUG00000021664 lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]
ENSMMUG00000021736 single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]
ENSMMUG00000021877 protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]
ENSMMUG00000022313 activating transcription factor 7 [Source:NCBI gene;Acc:700403]
ENSMMUG00000022401 EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]
ENSMMUG00000022406 ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]
ENSMMUG00000022407 serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]
ENSMMUG00000022409 solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]
ENSMMUG00000022467 membrane bound transcription factor peptidase, site 2 [Source:NCBI gene;Acc:696540]
ENSMMUG00000022893 von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]

ENSMMUG00000022933 DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]
ENSMMUG00000023016 jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]
ENSMMUG00000023060 A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]
ENSMMUG00000023139 small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]
ENSMMUG00000023192 choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]
ENSMMUG00000023282 aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]
ENSMMUG00000023300 FERM domain containing 8 [Source:NCBI gene;Acc:716379]
ENSMMUG00000023370 DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]
ENSMMUG00000023477
ENSMMUG00000023479 latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]
ENSMMUG00000023636 importin 7 [Source:NCBI gene;Acc:704213]
ENSMMUG00000023816 semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]
ENSMMUG00000024234 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000027543 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000029034 defensin beta 136 [Source:VGNC Symbol;Acc:VGNC:71826]
ENSMMUG00000029186 exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]
ENSMMUG00000029420
ENSMMUG00000029652 mitogen-activated protein kinase 6 [Source:NCBI gene;Acc:694998]
ENSMMUG00000030964 RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]
ENSMMUG00000031163 membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]
ENSMMUG00000031451 golgin A3 [Source:VGNC Symbol;Acc:VGNC:73106]
ENSMMUG00000032429 forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]
ENSMMUG00000034608 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000035748 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037175 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037243 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000038256 aquaporin 2 [Source:NCBI gene;Acc:711719]
ENSMMUG00000038363 adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]
ENSMMUG00000039292
ENSMMUG00000040071
ENSMMUG00000040741 thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]
ENSMMUG00000041101 protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]
ENSMMUG00000041376 G antigen 10 [Source:NCBI gene;Acc:693330]
ENSMMUG00000041729
ENSMMUG00000043648
ENSMMUG00000044496 H2A histone family, member X [Source:NCBI gene;Acc:703073]
ENSMMUG00000044581 modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]
ENSMMUG00000045093 cyclin B3 [Source:NCBI gene;Acc:694534]
ENSMMUG00000046478 WASH complex subunit 3 [Source:NCBI gene;Acc:697824]
ENSMMUG00000046774 RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]
ENSMMUG00000047465 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048039 apurinic/aprimidinic endodeoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:84305]
ENSMMUG00000048066 trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]
ENSMMUG00000048462 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049232 AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]
ENSMMUG00000049265 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049267
ENSMMUG00000049543
ENSMMUG00000049770 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049802 olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]
ENSMMUG00000049850 proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]

ENSMMUG00000049894
ENSMMUG00000050028
ENSMMUG00000050495
ENSMMUG00000050511
ENSMMUG00000050529 phosphodiesterase 6H [Source:NCBI gene;Acc:700447]
ENSMMUG00000050549 lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]
ENSMMUG00000050585
ENSMMUG00000050608
ENSMMUG00000050696 taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]
ENSMMUG00000050844 BTB domain containing 18 [Source:NCBI gene;Acc:703264]
ENSMMUG00000051037
ENSMMUG00000051503 nuclear pore associated protein 1 [Source:NCBI gene;Acc:719891]
ENSMMUG00000051807
ENSMMUG00000052073
ENSMMUG00000052168
ENSMMUG00000052252 protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]
ENSMMUG00000052424
ENSMMUG00000052569
ENSMMUG00000052637 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052828
ENSMMUG00000052854 mucin like 1 [Source:NCBI gene;Acc:100423942]
ENSMMUG00000052954 Wnt family member 6 [Source:NCBI gene;Acc:700573]
ENSMMUG00000053013
ENSMMUG00000053106
ENSMMUG00000053376
ENSMMUG00000053378
ENSMMUG00000053406
ENSMMUG00000053460
ENSMMUG00000053481
ENSMMUG00000053496
ENSMMUG00000053625 sterol-C5-desaturase [Source:NCBI gene;Acc:706827]
ENSMMUG00000053722
ENSMMUG00000053781 Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]
ENSMMUG00000054161 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054184 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054225 taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]
ENSMMUG00000054259
ENSMMUG00000054449 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054755 transmembrane protein 65 [Source:NCBI gene;Acc:705727]
ENSMMUG00000054942
ENSMMUG00000054960
ENSMMUG00000055018 sushi domain containing 6 [Source:NCBI gene;Acc:712719]
ENSMMUG00000055352
ENSMMUG00000055906 angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]
ENSMMUG00000055918
ENSMMUG00000056009
ENSMMUG00000056063
ENSMMUG00000056184
ENSMMUG00000056343
ENSMMUG00000056376
ENSMMUG00000056381 forkhead box R1 [Source:NCBI gene;Acc:707285]

ENSMMUG00000056605 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056794 cystatin E/M [Source:NCBI gene;Acc:714999]
ENSMMUG00000057179 cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]
ENSMMUG00000057196 pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]
ENSMMUG00000057283
ENSMMUG00000057570
ENSMMUG00000057640 plakophilin-3-like [Source:NCBI gene;Acc:114669833]
ENSMMUG00000057671
ENSMMUG00000057681
ENSMMUG00000057785
ENSMMUG00000057813
ENSMMUG00000057934
ENSMMUG00000058013 melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]
ENSMMUG00000058176 b-defensin2-like [Source:NCBI gene;Acc:100169969]
ENSMMUG00000058536
ENSMMUG00000058700 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000058800
ENSMMUG00000058935 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059134
ENSMMUG00000059182
ENSMMUG00000059335
ENSMMUG00000059341 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059432
ENSMMUG00000059436 interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]
ENSMMUG00000059504
ENSMMUG00000059681
ENSMMUG00000059754
ENSMMUG00000059782
ENSMMUG00000059932 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059969
ENSMMUG00000059985
ENSMMUG00000060063
ENSMMUG00000060230 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060517
ENSMMUG00000060596 BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]
ENSMMUG00000060750 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061079 golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]
ENSMMUG00000061342
ENSMMUG00000061391 ankyrin repeat domain 49 [Source:NCBI gene;Acc:697693]
ENSMMUG00000061526 synaptopodin 2 like [Source:NCBI gene;Acc:714736]
ENSMMUG00000061576
ENSMMUG00000061797 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000061833 transmembrane protein 251 [Source:NCBI gene;Acc:708131]
ENSMMUG00000061923
ENSMMUG00000061935
ENSMMUG00000061974
ENSMMUG00000062063 melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]
ENSMMUG00000062139
ENSMMUG00000062217 HD domain containing 3 [Source:NCBI gene;Acc:715621]
ENSMMUG00000062254

ENSMMUG00000062628
ENSMMUG00000062781 chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]
ENSMMUG00000062863
ENSMMUG00000063215 T cell receptor alpha variable 29/delta variable 5 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:12127]
ENSMMUG00000063322
ENSMMUG00000063346
ENSMMUG00000063495
ENSMMUG00000063525
ENSMMUG00000063694 cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]
ENSMMUG00000063759 transmembrane protein 185B [Source:NCBI gene;Acc:695744]
ENSMMUG00000063898 apolipoprotein F [Source:NCBI gene;Acc:712761]
ENSMMUG00000063913 endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]
ENSMMUG00000064005
ENSMMUG00000064321
ENSMMUG00000064341 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000064557
ENSMMUG00000064694 AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]
ENSMMUG00000064730
ENSMMUG00000064895
ENSMMUG00000064931
ENSMMUG00000065247 opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]
ENSMMUG00000065319
ENSMMUG00000000196 niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]
ENSMMUG00000000276 NACC family member 2 [Source:VGNC Symbol;Acc:VGNC:75013]
ENSMMUG00000000293 catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]
ENSMMUG00000000389 nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]
ENSMMUG00000000396 intraflagellar transport 52 [Source:NCBI gene;Acc:694933]
ENSMMUG00000000452 LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]
ENSMMUG00000000700 CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]
ENSMMUG00000000740 spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]
ENSMMUG00000000757 ring finger protein 114 [Source:VGNC Symbol;Acc:VGNC:76725]
ENSMMUG00000000802 regulatory factor X3 [Source:VGNC Symbol;Acc:VGNC:76908]
ENSMMUG00000001036 coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]
ENSMMUG00000001058 tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]
ENSMMUG00000001220 adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]
ENSMMUG00000001269 chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]
ENSMMUG00000001271 cleavage and polyadenylation specific factor 4 like [Source:NCBI gene;Acc:698279]
ENSMMUG00000001409 coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]
ENSMMUG00000001545 aquaporin 7 [Source:NCBI gene;Acc:702836]
ENSMMUG00000001748 spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]
ENSMMUG00000001845 DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]
ENSMMUG00000001917 megakaryocyte-associated tyrosine kinase [Source:NCBI gene;Acc:100430078]
ENSMMUG00000002124 beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]
ENSMMUG00000002267 laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]
ENSMMUG00000002330 ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]
ENSMMUG00000002376 scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]
ENSMMUG00000002377 Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]
ENSMMUG00000002384 IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]
ENSMMUG00000002397 GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]
ENSMMUG00000002715 solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]
ENSMMUG00000002810 TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]

ENSMMUG0000002926 mediator complex subunit 24 [Source:NCBI gene;Acc:699536]
ENSMMUG0000002959 helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]
ENSMMUG0000003005 MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]
ENSMMUG0000003006 serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]
ENSMMUG0000003098 peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]
ENSMMUG0000003105 inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]
ENSMMUG0000003106 SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]
ENSMMUG0000003233 SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]
ENSMMUG0000003298 ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]
ENSMMUG0000003303 Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]
ENSMMUG0000003436 tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]
ENSMMUG0000003437 signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]
ENSMMUG0000003439 nuclear factor I C [Source:VGNC Symbol;Acc:VGNC:75336]
ENSMMUG0000003539 glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]
ENSMMUG0000003611 low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:74248]
ENSMMUG0000003668 GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]
ENSMMUG0000003780 tight junction protein 2 [Source:NCBI gene;Acc:699586]
ENSMMUG0000003797 ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]
ENSMMUG0000004283 calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]
ENSMMUG0000004337 zinc finger protein 790 [Source:VGNC Symbol;Acc:VGNC:79930]
ENSMMUG0000004498 protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]
ENSMMUG0000004587 gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]
ENSMMUG0000004794 DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]
ENSMMUG0000004820 pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]
ENSMMUG0000005086 homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]
ENSMMUG0000005355 TIMP metalloproteinase inhibitor 2 [Source:NCBI gene;Acc:574357]
ENSMMUG0000005432 clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]
ENSMMUG0000005554 mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]
ENSMMUG0000005595 RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]
ENSMMUG0000005625 fibrosin [Source:NCBI gene;Acc:712741]
ENSMMUG0000005666 phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]
ENSMMUG0000005737 SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]
ENSMMUG0000005793 ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]
ENSMMUG0000005989 GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]
ENSMMUG0000005997 cell division cycle 14B [Source:NCBI gene;Acc:710300]
ENSMMUG0000006066 phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]
ENSMMUG0000006086 pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]
ENSMMUG0000006091 contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]
ENSMMUG0000006093 enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]
ENSMMUG0000006738 L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]
ENSMMUG0000006853 crystallin beta B2 [Source:NCBI gene;Acc:100144420]
ENSMMUG0000006941 exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]
ENSMMUG0000007197 BRCA2 DNA repair associated [Source:VGNC Symbol;Acc:VGNC:70279]
ENSMMUG0000007198 NEDD4 binding protein 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75017]
ENSMMUG0000007200 NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]
ENSMMUG0000007201 PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]
ENSMMUG0000007379 phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]
ENSMMUG0000007401 arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]
ENSMMUG0000007423 transcription factor Dp-1 [Source:NCBI gene;Acc:715345]
ENSMMUG0000007726 synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]
ENSMMUG0000007729 ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]

ENSMMUG0000007799 LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]
ENSMMUG0000007925 serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]
ENSMMUG0000008077 dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]
ENSMMUG0000008080 ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]
ENSMMUG0000008090 ribosomal protein L27 [Source:NCBI gene;Acc:712352]
ENSMMUG0000008091 RUN domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77101]
ENSMMUG0000008160 neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]
ENSMMUG0000008195 TGFB induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]
ENSMMUG0000008196 aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]
ENSMMUG0000008200 Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]
ENSMMUG0000008253 zinc finger protein 267 [Source:NCBI gene;Acc:641441]
ENSMMUG0000008536 mitogen-activated protein kinase 7 [Source:VGNC Symbol;Acc:VGNC:74648]
ENSMMUG0000008538 microfibril associated protein 4 [Source:VGNC Symbol;Acc:VGNC:74710]
ENSMMUG0000008778 parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]
ENSMMUG0000008784 lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]
ENSMMUG0000009176 calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]
ENSMMUG0000009199 glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]
ENSMMUG0000009201 abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]
ENSMMUG0000009377 tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]
ENSMMUG0000009567 glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]
ENSMMUG0000009684 kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]
ENSMMUG0000009884 hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]
ENSMMUG0000009886 Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]
ENSMMUG0000009887 MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]
ENSMMUG0000009889 PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]
ENSMMUG0000009890 FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]
ENSMMUG0000009953 ninein like [Source:VGNC Symbol;Acc:VGNC:75273]
ENSMMUG0000009960 cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]
ENSMMUG0000009973 proline rich coiled-coil 2B [Source:VGNC Symbol;Acc:VGNC:76327]
ENSMMUG0000009988 transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]
ENSMMUG0000009995 arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]
ENSMMUG0000010028 leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]
ENSMMUG0000010363 ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]
ENSMMUG0000010556 Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]
ENSMMUG0000010592 adducin 2 [Source:VGNC Symbol;Acc:VGNC:69529]
ENSMMUG0000010610 WW domain containing oxidoreductase [Source:VGNC Symbol;Acc:VGNC:78805]
ENSMMUG0000010614 C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]
ENSMMUG0000010678 oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]
ENSMMUG0000011064 synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]
ENSMMUG0000011344 solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]
ENSMMUG0000011411 sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]
ENSMMUG0000011427 syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]
ENSMMUG0000011798 eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]
ENSMMUG0000012001 transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]
ENSMMUG0000012040 enolase 3 [Source:VGNC Symbol;Acc:VGNC:72220]
ENSMMUG0000012147 collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]
ENSMMUG0000012228 ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]
ENSMMUG0000012523 flotillin 2 [Source:NCBI gene;Acc:114669752]
ENSMMUG0000012668 centriolin [Source:VGNC Symbol;Acc:VGNC:71204]
ENSMMUG0000012959 solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]
ENSMMUG0000013099 pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]

ENSMMUG00000013671 elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]
ENSMMUG00000013697 PDX1 C-terminal inhibiting factor 1 [Source:VGNC Symbol;Acc:VGNC:75621]
ENSMMUG00000013713 beta 3-glucosyltransferase [Source:NCBI gene;Acc:713498]
ENSMMUG00000013877 otoancorin [Source:VGNC Symbol;Acc:VGNC:75624]
ENSMMUG00000013944 regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]
ENSMMUG00000013967 TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]
ENSMMUG00000014240 thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]
ENSMMUG00000014273 cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]
ENSMMUG00000014349 integrin subunit alpha X [Source:NCBI gene;Acc:100427850]
ENSMMUG00000014986 testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]
ENSMMUG00000015258 glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]
ENSMMUG00000015303 ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]
ENSMMUG00000015306 calponin 2 [Source:NCBI gene;Acc:721164]
ENSMMUG00000015744 zinc finger protein 302 [Source:NCBI gene;Acc:706279]
ENSMMUG00000015952 katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]
ENSMMUG00000015999 interferon induced protein 35 [Source:VGNC Symbol;Acc:VGNC:73564]
ENSMMUG00000016001 vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]
ENSMMUG00000016143 sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]
ENSMMUG00000016323 Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]
ENSMMUG00000016327 coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]
ENSMMUG00000016401 SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]
ENSMMUG00000016404 chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]
ENSMMUG00000016417 chromobox 8 [Source:NCBI gene;Acc:717514]
ENSMMUG00000016434 NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]
ENSMMUG00000016438 protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]
ENSMMUG00000016442 glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]
ENSMMUG00000016448 DLG associated protein 4 [Source:NCBI gene;Acc:702928]
ENSMMUG00000016549 matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]
ENSMMUG00000016553 solute carrier family 12 member 5 [Source:VGNC Symbol;Acc:VGNC:77471]
ENSMMUG00000016678 Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]
ENSMMUG00000016761 coiled-coil domain containing 47 [Source:NCBI gene;Acc:717944]
ENSMMUG00000016769 proteasome 26S subunit, ATPase 5 [Source:VGNC Symbol;Acc:VGNC:81513]
ENSMMUG00000016796 reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]
ENSMMUG00000016797 tubulin gamma 1 [Source:NCBI gene;Acc:710756]
ENSMMUG00000016827 UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]
ENSMMUG00000017036 nicalin [Source:VGNC Symbol;Acc:VGNC:75032]
ENSMMUG00000017209 C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]
ENSMMUG00000017242 MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]
ENSMMUG00000017256 calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]
ENSMMUG00000017561 solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]
ENSMMUG00000017654 arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]
ENSMMUG00000017758 mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]
ENSMMUG00000017822 periplakin [Source:VGNC Symbol;Acc:VGNC:76240]
ENSMMUG00000017906 DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]
ENSMMUG00000017971 nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]
ENSMMUG00000018137 MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]
ENSMMUG00000018396 HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]
ENSMMUG00000018648 zinc finger protein 594 [Source:NCBI gene;Acc:711492]
ENSMMUG00000018719 nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]
ENSMMUG00000018720 cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]
ENSMMUG00000018823 transmembrane protein 191C [Source:NCBI gene;Acc:697070]

ENSMMUG00000018932 adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]
ENSMMUG00000018967 ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]
ENSMMUG00000018986 seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]
ENSMMUG00000019070 focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]
ENSMMUG00000019223 TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]
ENSMMUG00000019314 vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]
ENSMMUG00000019418 erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]
ENSMMUG00000019667 TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]
ENSMMUG00000019925 DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]
ENSMMUG00000020020 Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]
ENSMMUG00000020190 valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]
ENSMMUG00000020226 WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]
ENSMMUG00000020254 exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]
ENSMMUG00000020258 E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]
ENSMMUG00000020462 CD300e molecule [Source:NCBI gene;Acc:114673189]
ENSMMUG00000020580 RPRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]
ENSMMUG00000020597 acyl-CoA synthetase short chain family member 1 [Source:VGNC Symbol;Acc:VGNC:69416]
ENSMMUG00000020668 cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]
ENSMMUG00000020799 BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]
ENSMMUG00000020868 homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]
ENSMMUG00000021019 E3 SUMO-protein ligase RanBP2 [Source:NCBI gene;Acc:694823]
ENSMMUG00000021408 family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]
ENSMMUG00000021436 latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]
ENSMMUG00000021476 BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]
ENSMMUG00000021477 ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]
ENSMMUG00000021553 dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]
ENSMMUG00000021554 PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]
ENSMMUG00000022100 midnolin [Source:VGNC Symbol;Acc:VGNC:82186]
ENSMMUG00000022282 collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]
ENSMMUG00000022348 surfait 4 [Source:VGNC Symbol;Acc:VGNC:78060]
ENSMMUG00000022613 reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]
ENSMMUG00000022996 HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]
ENSMMUG00000023263 mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]
ENSMMUG00000023286 UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]
ENSMMUG00000023303 ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]
ENSMMUG00000023403 GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]
ENSMMUG00000023717 MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]
ENSMMUG00000023797 post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]
ENSMMUG00000024170 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000024668 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000025050 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000026950 microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]
ENSMMUG00000027986 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000028471 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]
ENSMMUG00000028906 Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]
ENSMMUG00000028907 insulin receptor [Source:NCBI gene;Acc:706009]
ENSMMUG00000028947 complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]
ENSMMUG00000028948 azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]
ENSMMUG00000030279 A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]
ENSMMUG00000031106 ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]
ENSMMUG00000031391 RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]

ENSMMUG00000033550
ENSMMUG00000036223
ENSMMUG00000038944
ENSMMUG00000038988 RNase MRP [Source:RFAM;Acc:RF00030]
ENSMMUG00000038997 zygote arrest 1 like [Source:NCBI gene;Acc:100427970]
ENSMMUG00000039266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000039774 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000039943 adenylate cyclase 9 [Source:NCBI gene;Acc:706789]
ENSMMUG00000042407
ENSMMUG00000042598 transmembrane protein 18 [Source:NCBI gene;Acc:721515]
ENSMMUG00000043134 coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]
ENSMMUG00000043396 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000043738
ENSMMUG00000044048 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000044080 mitochondrial ribosomal protein L54 [Source:NCBI gene;Acc:713878]
ENSMMUG00000045256 cellular communication network factor 5 [Source:NCBI gene;Acc:717872]
ENSMMUG00000046169
ENSMMUG00000046417 chromobox 2 [Source:NCBI gene;Acc:717462]
ENSMMUG00000046918
ENSMMUG00000048190 U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]
ENSMMUG00000048204 ephrin B3 [Source:NCBI gene;Acc:716257]
ENSMMUG00000048215
ENSMMUG00000048375 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000048566 MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]
ENSMMUG00000049130
ENSMMUG00000049391
ENSMMUG00000049479
ENSMMUG00000049537 phosphoribosyl pyrophosphate synthetase associated protein 1 [Source:NCBI gene;Acc:706625]
ENSMMUG00000049542
ENSMMUG00000049649 proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]
ENSMMUG00000049703 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050436
ENSMMUG00000050543
ENSMMUG00000050739
ENSMMUG00000050793 N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]
ENSMMUG00000050799
ENSMMUG00000050822 carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]
ENSMMUG00000051072
ENSMMUG00000051201 zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]
ENSMMUG00000051226 FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]
ENSMMUG00000051343
ENSMMUG00000051420 homeobox B5 [Source:NCBI gene;Acc:696732]
ENSMMUG00000051453
ENSMMUG00000051537
ENSMMUG00000051852 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051925
ENSMMUG00000052047
ENSMMUG00000052112
ENSMMUG00000052227
ENSMMUG00000052505 homeobox B9 [Source:NCBI gene;Acc:106994009]
ENSMMUG00000052572

ENSMMUG00000052607
ENSMMUG00000052785 extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]
ENSMMUG00000053083 C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]
ENSMMUG00000053220 olfactory receptor 111 [Source:NCBI gene;Acc:719077]
ENSMMUG00000053257 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000053329
ENSMMUG00000053457 caspase 14 [Source:NCBI gene;Acc:718049]
ENSMMUG00000053611 stromal cell derived factor 2 [Source:NCBI gene;Acc:716189]
ENSMMUG00000053937
ENSMMUG00000054055 zinc finger protein 93 [Source:NCBI gene;Acc:720434]
ENSMMUG00000054211
ENSMMUG00000054472
ENSMMUG00000054579 zinc finger RNA binding protein 2 [Source:NCBI gene;Acc:100430166]
ENSMMUG00000054736
ENSMMUG00000054746
ENSMMUG00000054784
ENSMMUG00000055048
ENSMMUG00000055241
ENSMMUG00000055324 homeobox B7 [Source:NCBI gene;Acc:697089]
ENSMMUG00000055379
ENSMMUG00000055775 transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]
ENSMMUG00000055811
ENSMMUG00000055820
ENSMMUG00000055897
ENSMMUG00000056010
ENSMMUG00000056093 shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]
ENSMMUG00000056248
ENSMMUG00000056330
ENSMMUG00000056555
ENSMMUG00000056755
ENSMMUG00000056840
ENSMMUG00000056945
ENSMMUG00000056950
ENSMMUG00000057038
ENSMMUG00000057095
ENSMMUG00000057157
ENSMMUG00000057231 T-box transcription factor 21 [Source:NCBI gene;Acc:694044]
ENSMMUG00000057329
ENSMMUG00000057331 RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]
ENSMMUG00000057447
ENSMMUG00000057481
ENSMMUG00000057499
ENSMMUG00000057520
ENSMMUG00000057632
ENSMMUG00000057687
ENSMMUG00000057790
ENSMMUG00000058095 visual system homeobox 1 [Source:NCBI gene;Acc:715973]
ENSMMUG00000058254
ENSMMUG00000058311
ENSMMUG00000058437
ENSMMUG00000058566

ENSMMUG00000058592
ENSMMUG00000058621
ENSMMUG00000058758
ENSMMUG00000058856 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000058907
ENSMMUG00000058916
ENSMMUG00000058928 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059084
ENSMMUG00000059175
ENSMMUG00000059188
ENSMMUG00000059229 CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]
ENSMMUG00000059292
ENSMMUG00000059302 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059321
ENSMMUG00000059374
ENSMMUG00000059700
ENSMMUG00000059725
ENSMMUG00000059778
ENSMMUG00000059897 myosin light chain 9 [Source:NCBI gene;Acc:709784]
ENSMMUG00000060000
ENSMMUG00000060289
ENSMMUG00000060399 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060435 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060497
ENSMMUG00000060502
ENSMMUG00000060533
ENSMMUG00000060761
ENSMMUG00000060767
ENSMMUG00000060879 homeobox B13 [Source:NCBI gene;Acc:697572]
ENSMMUG00000060959
ENSMMUG00000060967
ENSMMUG00000061222 adipocyte plasma membrane associated protein [Source:NCBI gene;Acc:704948]
ENSMMUG00000061335
ENSMMUG00000061424 ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]
ENSMMUG00000061533
ENSMMUG00000061632 fibrillin 3 [Source:NCBI gene;Acc:709446]
ENSMMUG00000061836
ENSMMUG00000061896
ENSMMUG00000061951
ENSMMUG00000062037 stannin [Source:NCBI gene;Acc:711909]
ENSMMUG00000062091
ENSMMUG00000062283 homeobox B6 [Source:NCBI gene;Acc:106994013]
ENSMMUG00000062702
ENSMMUG00000063590
ENSMMUG00000063622 mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]
ENSMMUG00000063639
ENSMMUG00000063699
ENSMMUG00000063779
ENSMMUG00000063817 SRY-box transcription factor 9 [Source:NCBI gene;Acc:574208]
ENSMMUG00000063914
ENSMMUG00000063988

ENSMMUG00000064009 galactose-3-O-sulfotransferase 1 [Source:NCBI gene;Acc:715998]
ENSMMUG00000064052 CD300 molecule like family member d [Source:NCBI gene;Acc:703142]
ENSMMUG00000064095
ENSMMUG00000064204 kelch like family member 26 [Source:NCBI gene;Acc:719583]
ENSMMUG00000064229
ENSMMUG00000064250
ENSMMUG00000064391
ENSMMUG00000064401
ENSMMUG00000064532 mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]
ENSMMUG00000064554 leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]
ENSMMUG00000064610 long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]
ENSMMUG00000064650 SPEM family member 3 [Source:NCBI gene;Acc:106993878]
ENSMMUG00000064821
ENSMMUG00000064920
ENSMMUG00000065025
ENSMMUG00000065054 G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]
ENSMMUG00000065094
ENSMMUG00000065113
ENSMMUG00000065208
ENSMMUG00000003568 testis expressed 101 [Source:VGNC Symbol;Acc:VGNC:79869]
ENSMMUG00000003819 nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]
ENSMMUG00000003926 BCL2 like 12 [Source:NCBI gene;Acc:718981]
ENSMMUG00000004616 plasminogen activator, urokinase receptor [Source:VGNC Symbol;Acc:VGNC:76163]
ENSMMUG00000006936 gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]
ENSMMUG00000007538 transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]
ENSMMUG00000010837 VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]
ENSMMUG00000011332 Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]
ENSMMUG00000011627 interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]
ENSMMUG00000012797 zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]
ENSMMUG00000012801 zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]
ENSMMUG00000012937 proline rich 12 [Source:NCBI gene;Acc:719344]
ENSMMUG00000012938 SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]
ENSMMUG00000013477 creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]
ENSMMUG00000014592 zinc finger SWIM-type containing 9 [Source:VGNC Symbol;Acc:VGNC:79949]
ENSMMUG00000017927 protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]
ENSMMUG00000017930 striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]
ENSMMUG00000018879 exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]
ENSMMUG00000019032 EMAP like 2 [Source:NCBI gene;Acc:715009]
ENSMMUG00000021062 CD177 molecule [Source:VGNC Symbol;Acc:VGNC:70912]
ENSMMUG00000021891 kinesin light chain 3 [Source:VGNC Symbol;Acc:VGNC:73870]
ENSMMUG00000022116 PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]
ENSMMUG00000028733 RAS related [Source:VGNC Symbol;Acc:VGNC:76937]
ENSMMUG00000032809 mml-mir-642 [Source:miRBase;Acc:MI0007885]
ENSMMUG00000044817 nucleoporin 62 [Source:NCBI gene;Acc:100426308]
ENSMMUG00000050456 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054052 sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]
ENSMMUG00000054473 activating transcription factor 5 [Source:NCBI gene;Acc:719150]
ENSMMUG00000055976 CD99 antigen [Source:NCBI gene;Acc:106995376]
ENSMMUG00000057361 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059087
ENSMMUG00000061126 golgi associated olfactory signaling regulator [Source:NCBI gene;Acc:719194]

B. Down-regulated Gene ID

Survivors - SD1 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]
ENSMMUG00000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]
ENSMMUG00000000546	KIAA0040 ortholog [Source:NCBI gene;Acc:100423509]
ENSMMUG00000000663	guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]
ENSMMUG00000000777	dystonin [Source:VGNC Symbol;Acc:VGNC:81061]
ENSMMUG00000000962	H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]
ENSMMUG00000001529	solute carrier family 25 member 26 [Source:VGNC Symbol;Acc:VGNC:77530]
ENSMMUG00000001531	leucine rich repeats and immunoglobulin like domains 1 [Source:VGNC Symbol;Acc:VGNC:84156]
ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]
ENSMMUG00000001551	SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]
ENSMMUG00000001664	arylacetamide deacetylase [Source:VGNC Symbol;Acc:VGNC:81172]
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]
ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]
ENSMMUG00000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]
ENSMMUG00000002009	nitrilase 1 [Source:VGNC Symbol;Acc:VGNC:75351]
ENSMMUG00000002010	death effector domain containing [Source:VGNC Symbol;Acc:VGNC:71768]
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]
ENSMMUG00000002497	zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]
ENSMMUG00000002561	NOP2/Sun RNA methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75466]
ENSMMUG00000002653	hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]
ENSMMUG00000002802	agmatinase [Source:NCBI gene;Acc:713190]
ENSMMUG00000002821	origin recognition complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:75715]
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]
ENSMMUG00000002894	dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]
ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]
ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]
ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]

ENSMMUG00000003726 protein tyrosine phosphatase non-receptor type 13 [Source:VGNC Symbol;Acc:VGNC:76599]
ENSMMUG00000003736 nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]
ENSMMUG00000003850 collagen type XI alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71290]
ENSMMUG00000003987 forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]
ENSMMUG00000004362 Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]
ENSMMUG00000004579 RAD51 recombinase [Source:VGNC Symbol;Acc:VGNC:76645]
ENSMMUG00000004617 glutathione peroxidase 6 [Source:VGNC Symbol;Acc:VGNC:73154]
ENSMMUG00000004754 intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]
ENSMMUG00000004849 casein beta [Source:VGNC Symbol;Acc:VGNC:71523]
ENSMMUG00000005137 ATPase secretory pathway Ca²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]
ENSMMUG00000005225 gap junction protein alpha 1 [Source:VGNC Symbol;Acc:VGNC:73055]
ENSMMUG00000005414 N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]
ENSMMUG00000005442 5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]
ENSMMUG00000005515 ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]
ENSMMUG00000005578 solute carrier family 35 member E2 [Source:VGNC Symbol;Acc:VGNC:77590]
ENSMMUG00000005801 glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]
ENSMMUG00000005856 glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]
ENSMMUG00000005923 failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]
ENSMMUG00000005949 olfactory receptor 2B11 [Source:NCBI gene;Acc:709256]
ENSMMUG00000006187 angiotensin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]
ENSMMUG00000006217 general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]
ENSMMUG00000006252 argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]
ENSMMUG00000006547 ATPase H⁺ transporting VO subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]
ENSMMUG00000006548 KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]
ENSMMUG00000006553 dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]
ENSMMUG00000006682 chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]
ENSMMUG00000006688 ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]
ENSMMUG00000006703 solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]
ENSMMUG00000006898 integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]
ENSMMUG00000007244 OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]
ENSMMUG00000007246 myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]
ENSMMUG00000007250 RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]
ENSMMUG00000007256 splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]
ENSMMUG00000007257 synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]
ENSMMUG00000007504 myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]
ENSMMUG00000007765 Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]
ENSMMUG00000007766 suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]
ENSMMUG00000007783 isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]
ENSMMUG00000007821 ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]
ENSMMUG00000007968 hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]
ENSMMUG00000007998 HIVEP zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:83427]
ENSMMUG00000008009 family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]
ENSMMUG00000008093 StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]
ENSMMUG00000008228 unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]
ENSMMUG00000008419 G protein nucleolar 2 [Source:VGNC Symbol;Acc:VGNC:73037]
ENSMMUG00000008525 minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]
ENSMMUG00000008733 ubiquitin protein ligase E3C [Source:VGNC Symbol;Acc:VGNC:79049]
ENSMMUG00000008738 COMM domain containing 10 [Source:VGNC Symbol;Acc:VGNC:71374]
ENSMMUG00000008797 ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]
ENSMMUG00000008916 transferrin [Source:VGNC Symbol;Acc:VGNC:82716]
ENSMMUG00000008917 S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]

ENSMMUG0000008918 SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]
ENSMMUG0000008919 RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]
ENSMMUG0000008974 Fc receptor like 5 [Source:NCBI gene;Acc:718771]
ENSMMUG0000009006 round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]
ENSMMUG0000009059 Fas associated factor family member 2 [Source:VGNC Symbol;Acc:VGNC:72332]
ENSMMUG0000009226 mitogen-activated protein kinase kinase kinase 21 [Source:NCBI gene;Acc:712755]
ENSMMUG0000009319 transmembrane protein 161B [Source:VGNC Symbol;Acc:VGNC:84508]
ENSMMUG0000009536 makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]
ENSMMUG0000009702 mutS homolog 5 [Source:NCBI gene;Acc:715494]
ENSMMUG0000009773 lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]
ENSMMUG0000009922 mitochondrial calcium uniporter regulator 1 [Source:VGNC Symbol;Acc:VGNC:81471]
ENSMMUG0000009948 histone deacetylase 1 [Source:NCBI gene;Acc:708441]
ENSMMUG00000010067 MINDY lysine 48 deubiquitinase 1 [Source:VGNC Symbol;Acc:VGNC:74828]
ENSMMUG00000010127 chitinase [Source:VGNC Symbol;Acc:VGNC:71540]
ENSMMUG00000010295 URB1 ribosome biogenesis homolog [Source:VGNC Symbol;Acc:VGNC:79074]
ENSMMUG00000010323 zinc finger CCCH-type containing 12A [Source:VGNC Symbol;Acc:VGNC:79595]
ENSMMUG00000010379 Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]
ENSMMUG00000010648 DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]
ENSMMUG00000010682 fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]
ENSMMUG00000010695 adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]
ENSMMUG00000011214 solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]
ENSMMUG00000011386 GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]
ENSMMUG00000011573 cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]
ENSMMUG00000011575 coiled-coil domain containing 167 [Source:VGNC Symbol;Acc:VGNC:70833]
ENSMMUG00000011675 zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]
ENSMMUG00000011702 tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]
ENSMMUG00000011810 FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]
ENSMMUG00000011902 oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]
ENSMMUG00000011974 calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]
ENSMMUG00000012110 smoothed, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]
ENSMMUG00000012120 zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]
ENSMMUG00000012122 protein phosphatase 1 regulatory inhibitor subunit 11 [Source:VGNC Symbol;Acc:VGNC:82209]
ENSMMUG00000012124 ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]
ENSMMUG00000012129 tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]
ENSMMUG00000012192 erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]
ENSMMUG00000012238 polypeptide N-acetylgalactosaminyltransferase 11 [Source:VGNC Symbol;Acc:VGNC:72749]
ENSMMUG00000012396 zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]
ENSMMUG00000012408 dispatched RND transporter family member 2 [Source:VGNC Symbol;Acc:VGNC:71676]
ENSMMUG00000012463 DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]
ENSMMUG00000012561 NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]
ENSMMUG00000012781 muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]
ENSMMUG00000012961 mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]
ENSMMUG00000013047 S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]
ENSMMUG00000013183 F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]
ENSMMUG00000013302 family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]
ENSMMUG00000013718 translocation associated membrane protein 2 [Source:VGNC Symbol;Acc:VGNC:83515]
ENSMMUG00000014018 bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]
ENSMMUG00000014080 kelch like family member 8 [Source:VGNC Symbol;Acc:VGNC:74076]
ENSMMUG00000014474 SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]
ENSMMUG00000014955 nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]
ENSMMUG00000015041 CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]

ENSMMUG00000015309 F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]
ENSMMUG00000015371 microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]
ENSMMUG00000015640 AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]
ENSMMUG00000015661 protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]
ENSMMUG00000015909 TEA domain transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:78303]
ENSMMUG00000016004 acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]
ENSMMUG00000016135 neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]
ENSMMUG00000016857 prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]
ENSMMUG00000016880 solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]
ENSMMUG00000016893 solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]
ENSMMUG00000016896 solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]
ENSMMUG00000016911 DEAD-box helicase 41 [Source:VGNC Symbol;Acc:VGNC:71660]
ENSMMUG00000016993 PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]
ENSMMUG00000017008 GTPase, IMAP family member 2 [Source:VGNC Symbol;Acc:VGNC:72980]
ENSMMUG00000017114 pleckstrin homology domain containing A6 [Source:VGNC Symbol;Acc:VGNC:76040]
ENSMMUG00000017186 pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]
ENSMMUG00000017374 G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]
ENSMMUG00000017396 3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]
ENSMMUG00000017432 tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]
ENSMMUG00000017437 LysM domain containing 2 [Source:NCBI gene;Acc:694916]
ENSMMUG00000017583 single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]
ENSMMUG00000017819 putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]
ENSMMUG00000018057 uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]
ENSMMUG00000018058 ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]
ENSMMUG00000018073 ligand dependent nuclear receptor corepressor like [Source:NCBI gene;Acc:715285]
ENSMMUG00000018081 ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]
ENSMMUG00000018163 caspase 9 [Source:NCBI gene;Acc:694544]
ENSMMUG00000018285 cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]
ENSMMUG00000018332 family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]
ENSMMUG00000018342 required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]
ENSMMUG00000018346 coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]
ENSMMUG00000018490 ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]
ENSMMUG00000018493 FH2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72598]
ENSMMUG00000018525 presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]
ENSMMUG00000018565 ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]
ENSMMUG00000018739 sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]
ENSMMUG00000018746 FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]
ENSMMUG00000018747 5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]
ENSMMUG00000018911 protein kinase C zeta [Source:VGNC Symbol;Acc:VGNC:82212]
ENSMMUG00000018939 leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]
ENSMMUG00000018974 LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]
ENSMMUG00000018976 adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]
ENSMMUG00000019045 estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]
ENSMMUG00000019250 solute carrier family 25 member 27 [Source:VGNC Symbol;Acc:VGNC:77543]
ENSMMUG00000019252 tudor domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79319]
ENSMMUG00000019254 phospholipase A2 group VII [Source:VGNC Symbol;Acc:VGNC:76158]
ENSMMUG00000019267 interleukin 17 receptor B [Source:VGNC Symbol;Acc:VGNC:73618]
ENSMMUG00000019325 mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]
ENSMMUG00000019815 transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]
ENSMMUG00000019836 myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]
ENSMMUG00000019854 transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]

ENSMMUG00000019857 beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]
ENSMMUG00000019977 myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]
ENSMMUG00000020047 integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]
ENSMMUG00000020122 RAN binding protein 9 [Source:VGNC Symbol;Acc:VGNC:76475]
ENSMMUG00000020289 CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]
ENSMMUG00000020377 collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]
ENSMMUG00000020418 diacylglycerol kinase beta [Source:VGNC Symbol;Acc:VGNC:71782]
ENSMMUG00000020435 amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]
ENSMMUG00000020436 potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]
ENSMMUG00000020910 nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]
ENSMMUG00000021008 ankyrin repeat and SOCS box containing 14 [Source:VGNC Symbol;Acc:VGNC:84237]
ENSMMUG00000021051 TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]
ENSMMUG00000021053 annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]
ENSMMUG00000021145 family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]
ENSMMUG00000021168 unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]
ENSMMUG00000021169 translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]
ENSMMUG00000021171 apolipoprotein B mRNA editing enzyme catalytic subunit 2 [Source:VGNC Symbol;Acc:VGNC:69986]
ENSMMUG00000021173 nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]
ENSMMUG00000021186 anillin actin binding protein [Source:VGNC Symbol;Acc:VGNC:69610]
ENSMMUG00000021377 SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]
ENSMMUG00000021388 circadian associated repressor of transcription [Source:VGNC Symbol;Acc:VGNC:71345]
ENSMMUG00000022153 solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]
ENSMMUG00000022183 spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]
ENSMMUG00000022199 polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]
ENSMMUG00000022484 ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]
ENSMMUG00000022532 EPM2A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84184]
ENSMMUG00000022630 protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]
ENSMMUG00000022631 ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]
ENSMMUG00000022632 ubiquitin-fold modifier conjugating enzyme 1 [Source:VGNC Symbol;Acc:VGNC:79643]
ENSMMUG00000022636 GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]
ENSMMUG00000022641 ubiquitin C-terminal hydrolase L5 [Source:VGNC Symbol;Acc:VGNC:79197]
ENSMMUG00000022647 cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]
ENSMMUG00000022648 beta-1,3-galactosyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70205]
ENSMMUG00000022697 STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]
ENSMMUG00000022791 heat shock transcription factor 2 binding protein [Source:VGNC Symbol;Acc:VGNC:73532]
ENSMMUG00000022840 zonadhesin [Source:VGNC Symbol;Acc:VGNC:81797]
ENSMMUG00000022880 eukaryotic translation initiation factor 5A2 [Source:VGNC Symbol;Acc:VGNC:72198]
ENSMMUG00000022927 RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]
ENSMMUG00000023012 vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]
ENSMMUG00000023096 obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]
ENSMMUG00000023124 transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]
ENSMMUG00000023125 XPC complex subunit, DNA damage recognition and repair factor [Source:VGNC Symbol;Acc:VGNC:78809]
ENSMMUG00000023138 bromodomain containing 2 [Source:VGNC Symbol;Acc:VGNC:83422]
ENSMMUG00000023235 SET domain bifurcated histone lysine methyltransferase 1 [Source:NCBI gene;Acc:716141]
ENSMMUG00000023265 A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]
ENSMMUG00000023398 collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]
ENSMMUG00000023401 adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]
ENSMMUG00000023558 exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]
ENSMMUG00000023676 espin [Source:NCBI gene;Acc:722532]
ENSMMUG00000023679 tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]
ENSMMUG00000023814 mitogen-activated protein kinase kinase kinase 13 [Source:VGNC Symbol;Acc:VGNC:74494]

ENSMMUG00000024186 U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]
ENSMMUG00000027053 mml-mir-194-1 [Source:miRBase;Acc:MI0003024]
ENSMMUG00000029475 zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]
ENSMMUG00000030099 phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]
ENSMMUG00000031821 chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]
ENSMMUG00000032244 DnaJ heat shock protein family (Hsp40) member C16 [Source:NCBI gene;Acc:700894]
ENSMMUG00000032252 UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]
ENSMMUG00000032281 zinc finger and BTB domain containing 48 [Source:VGNC Symbol;Acc:VGNC:79959]
ENSMMUG00000037458 endoplasmic reticulum resident protein 29 [Source:NCBI gene;Acc:720396]
ENSMMUG00000037551 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000037625
ENSMMUG00000038051 uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]
ENSMMUG00000038560 eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]
ENSMMUG00000039020 zinc finger protein 141 [Source:NCBI gene;Acc:714265]
ENSMMUG00000039033 nucleolar protein with MIF4G domain 1 [Source:VGNC Symbol;Acc:VGNC:81729]
ENSMMUG00000039085 adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1 [Source:NCBI gene;Acc:100425753]
ENSMMUG00000039317 cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]
ENSMMUG00000039944 Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]
ENSMMUG00000040694 LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]
ENSMMUG00000040764 alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]
ENSMMUG00000042798
ENSMMUG00000043161 endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]
ENSMMUG00000043809 caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]
ENSMMUG00000043922 spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]
ENSMMUG00000044175 forkhead box O6 [Source:NCBI gene;Acc:697505]
ENSMMUG00000044473
ENSMMUG00000044759
ENSMMUG00000044958 adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]
ENSMMUG00000045584 leucine zipper protein 1 [Source:NCBI gene;Acc:718626]
ENSMMUG00000046663 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000047162 fibroblast growth factor 10 [Source:VGNC Symbol;Acc:VGNC:84378]
ENSMMUG00000047276 GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]
ENSMMUG00000047324 casein alpha s1 [Source:HGNC Symbol;Acc:HGNC:2445]
ENSMMUG00000047994 CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]
ENSMMUG00000048232 MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]
ENSMMUG00000048805
ENSMMUG00000048823
ENSMMUG00000048892 SCO-spondin [Source:VGNC Symbol;Acc:VGNC:81765]
ENSMMUG00000049196 dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]
ENSMMUG00000049295 GTPase, IMAP family member 5 [Source:NCBI gene;Acc:713835]
ENSMMUG00000049396 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049575 T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]
ENSMMUG00000049859
ENSMMUG00000049939
ENSMMUG00000050239
ENSMMUG00000050269 T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]
ENSMMUG00000050991
ENSMMUG00000051008
ENSMMUG00000051020 zinc finger protein 467 [Source:NCBI gene;Acc:712106]
ENSMMUG00000051032 serine protease 2 [Source:NCBI gene;Acc:698352]
ENSMMUG00000051107

ENSMMUG00000051169
ENSMMUG00000051271
ENSMMUG00000051381 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051385
ENSMMUG00000051429
ENSMMUG00000051523 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051641
ENSMMUG00000051768
ENSMMUG00000052282
ENSMMUG00000052287
ENSMMUG00000052382 histone H4 [Source:NCBI gene;Acc:107000818]
ENSMMUG00000052435 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052442
ENSMMUG00000052574
ENSMMUG00000052609 ribosomal protein L34 [Source:NCBI gene;Acc:696636]
ENSMMUG00000052682
ENSMMUG00000052830
ENSMMUG00000052887
ENSMMUG00000053036
ENSMMUG00000053235
ENSMMUG00000053344 splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]
ENSMMUG00000053384
ENSMMUG00000053541
ENSMMUG00000053550
ENSMMUG00000053660 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000053794
ENSMMUG00000054107
ENSMMUG00000054168 mitotic arrest deficient 2 like 1 [Source:NCBI gene;Acc:708574]
ENSMMUG00000054315
ENSMMUG00000054412
ENSMMUG00000054532
ENSMMUG00000054719
ENSMMUG00000054916 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055028
ENSMMUG00000055117
ENSMMUG00000055233 PRAME family member 17-like [Source:NCBI gene;Acc:100427847]
ENSMMUG00000055244 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055271
ENSMMUG00000055272 putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]
ENSMMUG00000055392
ENSMMUG00000055585
ENSMMUG00000055759 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055783
ENSMMUG00000055809
ENSMMUG00000056103 growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]
ENSMMUG00000056116
ENSMMUG00000056280 G protein subunit alpha i2 [Source:NCBI gene;Acc:703780]
ENSMMUG00000056363
ENSMMUG00000056515
ENSMMUG00000056790
ENSMMUG00000057282 Y RNA [Source:RFAM;Acc:RF00019]

ENSMMUG00000057494 T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]
ENSMMUG00000057501
ENSMMUG00000057606 GPRIN family member 3 [Source:NCBI gene;Acc:703567]
ENSMMUG00000057697
ENSMMUG00000057768
ENSMMUG00000057859
ENSMMUG00000058133
ENSMMUG00000058151 chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]
ENSMMUG00000058580 tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]
ENSMMUG00000058765
ENSMMUG00000059019
ENSMMUG00000059101
ENSMMUG00000059208 aurora kinase A interacting protein 1 [Source:NCBI gene;Acc:706329]
ENSMMUG00000059241
ENSMMUG00000059327 NUS1 dehydrolipoyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]
ENSMMUG00000059677 melanocortin 2 receptor accessory protein [Source:NCBI gene;Acc:701330]
ENSMMUG00000059707 MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]
ENSMMUG00000059773 methyltransferase like 11B [Source:NCBI gene;Acc:705503]
ENSMMUG00000059855 Smad nuclear interacting protein 1 [Source:NCBI gene;Acc:713733]
ENSMMUG00000059938
ENSMMUG00000059986
ENSMMUG00000060167
ENSMMUG00000060278 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060527
ENSMMUG00000060541
ENSMMUG00000060600
ENSMMUG00000060744
ENSMMUG00000060798
ENSMMUG00000060822
ENSMMUG00000060841
ENSMMUG00000060940 acidic residue methyltransferase 1 [Source:NCBI gene;Acc:704570]
ENSMMUG00000061117
ENSMMUG00000061590
ENSMMUG00000061973
ENSMMUG00000062021
ENSMMUG00000062110 TPD52 like 1 [Source:NCBI gene;Acc:716568]
ENSMMUG00000062140
ENSMMUG00000062443
ENSMMUG00000062527
ENSMMUG00000062538 adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]
ENSMMUG00000062676
ENSMMUG00000062861
ENSMMUG00000063177 StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]
ENSMMUG00000063228
ENSMMUG00000063268
ENSMMUG00000063288
ENSMMUG00000063298
ENSMMUG00000063570 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063576 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063659
ENSMMUG00000063972

ENSMMUG00000064337 nectin cell adhesion molecule 4 [Source:NCBI gene;Acc:719843]
ENSMMUG00000064344 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064458
ENSMMUG00000064473 MRT4 homolog, ribosome maturation factor [Source:NCBI gene;Acc:702926]
ENSMMUG00000064529
ENSMMUG00000064804
ENSMMUG00000065031
ENSMMUG00000000205 transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]
ENSMMUG00000000238 HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]
ENSMMUG00000000443 arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]
ENSMMUG00000000511 cysteinyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:70540]
ENSMMUG00000000667 zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]
ENSMMUG00000000669 gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]
ENSMMUG00000000684 acyl-CoA dehydrogenase short/branched chain [Source:VGNC Symbol;Acc:VGNC:81343]
ENSMMUG00000000690 catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]
ENSMMUG00000000797 exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]
ENSMMUG00000000807 tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [Source:VGNC Symbol;Acc:VGNC:79500]
ENSMMUG00000000974 mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]
ENSMMUG00000001008 spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]
ENSMMUG00000001294 FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]
ENSMMUG00000001357 tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]
ENSMMUG00000001374 supervillin [Source:NCBI gene;Acc:695267]
ENSMMUG00000001386 neurotrophic receptor tyrosine kinase 3 [Source:VGNC Symbol;Acc:VGNC:75542]
ENSMMUG00000001640 SIX homeobox 4 [Source:NCBI gene;Acc:703798]
ENSMMUG00000002090 ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]
ENSMMUG00000002093 testis expressed 261 [Source:NCBI gene;Acc:703863]
ENSMMUG00000002103 delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]
ENSMMUG00000002176 ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]
ENSMMUG00000002183 oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]
ENSMMUG00000002244 early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]
ENSMMUG00000002250 beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]
ENSMMUG00000002517 protein tyrosine phosphatase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76567]
ENSMMUG00000002519 serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]
ENSMMUG00000002520 solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]
ENSMMUG00000002549 trehalase [Source:NCBI gene;Acc:706449]
ENSMMUG00000002589 sulfotransferase 1C3-like [Source:NCBI gene;Acc:114671897]
ENSMMUG00000002678 integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]
ENSMMUG00000002809 unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]
ENSMMUG00000003049 testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]
ENSMMUG00000003120 HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]
ENSMMUG00000003123 adaptor related protein complex 4 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:84304]
ENSMMUG00000003231 coiled-coil domain containing 33 [Source:VGNC Symbol;Acc:VGNC:70876]
ENSMMUG00000003260
ENSMMUG00000003261 BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]
ENSMMUG00000003394 cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]
ENSMMUG00000003483 cyclin dependent kinase 2 interacting protein [Source:VGNC Symbol;Acc:VGNC:71326]
ENSMMUG00000003631 cytoskeleton associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71368]
ENSMMUG00000003979 WD repeat containing planar cell polarity effector [Source:VGNC Symbol;Acc:VGNC:79677]
ENSMMUG00000004091 transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]
ENSMMUG00000004157 nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]
ENSMMUG00000004178 NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]

ENSMMUG00000004208 serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]
ENSMMUG00000004233 leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]
ENSMMUG00000004329 solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]
ENSMMUG00000004606 EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]
ENSMMUG00000004674 phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]
ENSMMUG00000004675 smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]
ENSMMUG00000004709 proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]
ENSMMUG00000004711 transmembrane protein 74B [Source:VGNC Symbol;Acc:VGNC:78990]
ENSMMUG00000004791 pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]
ENSMMUG00000004821 membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]
ENSMMUG00000004954 apoptosis inducing factor mitochondria associated 1 [Source:VGNC Symbol;Acc:VGNC:69820]
ENSMMUG00000004985 arylsulfatase L [Source:VGNC Symbol;Acc:VGNC:81361]
ENSMMUG00000005042 RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]
ENSMMUG00000005048 MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]
ENSMMUG00000005067 elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]
ENSMMUG00000005200 PC-esterase domain containing 1A [Source:VGNC Symbol;Acc:VGNC:75622]
ENSMMUG00000005204 VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]
ENSMMUG00000005246 zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]
ENSMMUG00000005301 ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]
ENSMMUG00000005463 bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]
ENSMMUG00000005610 protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]
ENSMMUG00000005761 UBX domain protein 1 [Source:VGNC Symbol;Acc:VGNC:79135]
ENSMMUG00000005851 B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]
ENSMMUG00000005895 nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]
ENSMMUG00000006215 serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]
ENSMMUG00000006268 junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]
ENSMMUG00000006446 transmembrane protein 177 [Source:VGNC Symbol;Acc:VGNC:79686]
ENSMMUG00000006457 Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]
ENSMMUG00000006531 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 [Source:VGNC Symbol;Acc:VGNC:77653]
ENSMMUG00000006639 NGG1 interacting factor 3 like 1 [Source:VGNC Symbol;Acc:VGNC:75166]
ENSMMUG00000006731 CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]
ENSMMUG00000006755 tubulin tyrosine ligase like 4 [Source:VGNC Symbol;Acc:VGNC:79758]
ENSMMUG00000006768 coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]
ENSMMUG00000006775 proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]
ENSMMUG00000006842 doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]
ENSMMUG00000006950 cornichon family AMPA receptor auxiliary protein 2 [Source:VGNC Symbol;Acc:VGNC:71366]
ENSMMUG00000007003 polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]
ENSMMUG00000007187 haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]
ENSMMUG00000007215 X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]
ENSMMUG00000007277 GTP binding protein 1 [Source:VGNC Symbol;Acc:VGNC:73320]
ENSMMUG00000007313 histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]
ENSMMUG00000007325 Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]
ENSMMUG00000007326 ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]
ENSMMUG00000007330 nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]
ENSMMUG00000007411 integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]
ENSMMUG00000007421 zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]
ENSMMUG00000007424 nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]
ENSMMUG00000007561 zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]
ENSMMUG00000007620 transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]
ENSMMUG00000007628 cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]
ENSMMUG00000007709 crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]

ENSMMUG0000007775 survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]
ENSMMUG0000008113 pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]
ENSMMUG0000008486 endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]
ENSMMUG0000008539 uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]
ENSMMUG0000008541 BRCA2 and CDKN1A interacting protein [Source:NCBI gene;Acc:699437]
ENSMMUG0000008643 general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]
ENSMMUG0000008718 zinc finger protein 280D [Source:NCBI gene;Acc:699509]
ENSMMUG0000008781 BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]
ENSMMUG0000008792 G-patch domain containing 2 like [Source:VGNC Symbol;Acc:VGNC:72973]
ENSMMUG0000008867 exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]
ENSMMUG0000009038 titin [Source:NCBI gene;Acc:703527]
ENSMMUG0000009084 transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]
ENSMMUG0000009087 HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]
ENSMMUG0000009126 solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]
ENSMMUG0000009155 SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]
ENSMMUG0000009303 coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]
ENSMMUG0000009493 family with sequence similarity 120A [Source:NCBI gene;Acc:717459]
ENSMMUG0000009519 WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]
ENSMMUG0000009520 gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]
ENSMMUG0000009524 adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]
ENSMMUG0000009695 BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]
ENSMMUG0000009958 ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]
ENSMMUG0000009965 chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]
ENSMMUG0000010050 small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]
ENSMMUG0000010114 Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]
ENSMMUG0000010453 folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]
ENSMMUG0000010627 apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]
ENSMMUG0000010744
ENSMMUG0000010819 fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]
ENSMMUG0000010820 chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]
ENSMMUG0000011116 NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]
ENSMMUG0000011129 cilia and flagella associated protein 221 [Source:VGNC Symbol;Acc:VGNC:71153]
ENSMMUG0000011183 olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]
ENSMMUG0000011189 tousled like kinase 1 [Source:VGNC Symbol;Acc:VGNC:78367]
ENSMMUG0000011359 eukaryotic translation initiation factor 3 subunit E [Source:VGNC Symbol;Acc:VGNC:83997]
ENSMMUG0000011469 germ cell nuclear acidic peptidase [Source:VGNC Symbol;Acc:VGNC:72724]
ENSMMUG0000012056 structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]
ENSMMUG0000012058 GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]
ENSMMUG0000012101 synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]
ENSMMUG0000012224 family with sequence similarity 126 member B [Source:VGNC Symbol;Acc:VGNC:72393]
ENSMMUG0000012452 transglutaminase 1 [Source:NCBI gene;Acc:715854]
ENSMMUG0000012462 proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]
ENSMMUG0000012467 family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]
ENSMMUG0000012473 proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]
ENSMMUG0000012480 REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]
ENSMMUG0000012481 importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]
ENSMMUG0000012690 myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]
ENSMMUG0000012769 limb development membrane protein 1 like [Source:VGNC Symbol;Acc:VGNC:74310]
ENSMMUG0000012894 NHS actin remodeling regulator [Source:VGNC Symbol;Acc:VGNC:75348]
ENSMMUG0000013029 surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]
ENSMMUG0000013032 phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]

ENSMMUG00000013045 coiled-coil domain containing 81 [Source:VGNC Symbol;Acc:VGNC:70868]
ENSMMUG00000013055 malic enzyme 3 [Source:VGNC Symbol;Acc:VGNC:74695]
ENSMMUG00000013261 CDP-diacylglycerol synthase 2 [Source:VGNC Symbol;Acc:VGNC:70995]
ENSMMUG00000013552 scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]
ENSMMUG00000013601 chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]
ENSMMUG00000013799 ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]
ENSMMUG00000013848 fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]
ENSMMUG00000013937 RAB41, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81544]
ENSMMUG00000014176 cytohesin 1 interacting protein [Source:VGNC Symbol;Acc:VGNC:71831]
ENSMMUG00000014350 MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]
ENSMMUG00000014438 piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]
ENSMMUG00000014484 zinc finger protein 641 [Source:NCBI gene;Acc:708246]
ENSMMUG00000014531 transmembrane protein 109 [Source:VGNC Symbol;Acc:VGNC:79740]
ENSMMUG00000014762 myosin heavy chain 6 [Source:NCBI gene;Acc:713471]
ENSMMUG00000014809 heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]
ENSMMUG00000014810 short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]
ENSMMUG00000014824 SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]
ENSMMUG00000015000 SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]
ENSMMUG00000015002 chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]
ENSMMUG00000015117 X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]
ENSMMUG00000015141 ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]
ENSMMUG00000015143 F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]
ENSMMUG00000015151 interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]
ENSMMUG00000015166 NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]
ENSMMUG00000015198 glutamate decarboxylase 1 [Source:VGNC Symbol;Acc:VGNC:72862]
ENSMMUG00000015202
ENSMMUG00000015238 O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]
ENSMMUG00000015279 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]
ENSMMUG00000015414 family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]
ENSMMUG00000015522 GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]
ENSMMUG00000015550 PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]
ENSMMUG00000015619 ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]
ENSMMUG00000015962 AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]
ENSMMUG00000015970 coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]
ENSMMUG00000016019 PDZ binding kinase [Source:VGNC Symbol;Acc:VGNC:75643]
ENSMMUG00000016052 seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]
ENSMMUG00000016262 tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]
ENSMMUG00000016313 RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]
ENSMMUG00000016314 family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]
ENSMMUG00000016316 testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]
ENSMMUG00000016331 glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]
ENSMMUG00000016543 CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]
ENSMMUG00000016610 CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]
ENSMMUG00000016983 acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]
ENSMMUG00000017145 cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]
ENSMMUG00000017204 programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]
ENSMMUG00000017206 SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]
ENSMMUG00000017207 dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]
ENSMMUG00000017210 sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]
ENSMMUG00000017355 remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]
ENSMMUG00000017378 steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]

ENSMMUG00000017486 minichromosome maintenance complex component 6 [Source:VGNC Symbol;Acc:VGNC:74685]
ENSMMUG00000017524 phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]
ENSMMUG00000017593 CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]
ENSMMUG00000017628 pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]
ENSMMUG00000017886 F-box protein 10 [Source:NCBI gene;Acc:718443]
ENSMMUG00000018468 senataxin [Source:VGNC Symbol;Acc:VGNC:77356]
ENSMMUG00000018474 signal regulatory protein alpha [Source:NCBI gene;Acc:717811]
ENSMMUG00000018510 sodium voltage-gated channel alpha subunit 9 [Source:VGNC Symbol;Acc:VGNC:76990]
ENSMMUG00000018679 glyceraldehyde-3-phosphate dehydrogenase [Source:NCBI gene;Acc:574353]
ENSMMUG00000018945 chloride nucleotide-sensitive channel 1A [Source:VGNC Symbol;Acc:VGNC:71261]
ENSMMUG00000019462 integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]
ENSMMUG00000019639 paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]
ENSMMUG00000019672 autophagy related 13 [Source:VGNC Symbol;Acc:VGNC:70148]
ENSMMUG00000019838 phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]
ENSMMUG00000019841 leucine rich pentatricopeptide repeat containing [Source:VGNC Symbol;Acc:VGNC:82177]
ENSMMUG00000020004 Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]
ENSMMUG00000020005 solute carrier family 23 member 2 [Source:NCBI gene;Acc:717939]
ENSMMUG00000020036 Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]
ENSMMUG00000020211 cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]
ENSMMUG00000020348 BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]
ENSMMUG00000020370 SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]
ENSMMUG00000020533 chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]
ENSMMUG00000020706 ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]
ENSMMUG00000020804 transmembrane protein 132B [Source:NCBI gene;Acc:707118]
ENSMMUG00000020813 NADH:ubiquinone oxidoreductase subunit A9 [Source:VGNC Symbol;Acc:VGNC:81480]
ENSMMUG00000020926 syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]
ENSMMUG00000020993 cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]
ENSMMUG00000021049 ret finger protein-like 3 [Source:NCBI gene;Acc:705507]
ENSMMUG00000021112 epithelial splicing regulatory protein 1 [Source:VGNC Symbol;Acc:VGNC:72358]
ENSMMUG00000021114 G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]
ENSMMUG00000021216 UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]
ENSMMUG00000021280 leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]
ENSMMUG00000021282 late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]
ENSMMUG00000021308 chromosome 9 C10orf71 homolog [Source:NCBI gene;Acc:710332]
ENSMMUG00000021372 EMI domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72063]
ENSMMUG00000021373 rhomboid domain containing 3 [Source:NCBI gene;Acc:714479]
ENSMMUG00000021374 EWS RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72446]
ENSMMUG00000021393 calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]
ENSMMUG00000021552 RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]
ENSMMUG00000021670 solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]
ENSMMUG00000021691 spastin [Source:VGNC Symbol;Acc:VGNC:77857]
ENSMMUG00000021760 zinc finger protein 79 [Source:NCBI gene;Acc:700961]
ENSMMUG00000021775 beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]
ENSMMUG00000021808 cryptochrome circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:71499]
ENSMMUG00000021878 timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]
ENSMMUG00000021914 spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]
ENSMMUG00000022044 scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]
ENSMMUG00000022056 DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]
ENSMMUG00000022118 regulatory factor X4 [Source:VGNC Symbol;Acc:VGNC:76909]
ENSMMUG00000022185 odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]
ENSMMUG00000022202 basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]

ENSMMUG00000022520 kinesin light chain 2 [Source:VGNC Symbol;Acc:VGNC:73869]
ENSMMUG00000022548 phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:VGNC Symbol;Acc:VGNC:75992]
ENSMMUG00000022601 cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]
ENSMMUG00000022602 methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]
ENSMMUG00000022680 alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]
ENSMMUG00000023005 Sp9 transcription factor [Source:VGNC Symbol;Acc:VGNC:78027]
ENSMMUG00000023006 corepressor interacting with RBPJ, 1 [Source:VGNC Symbol;Acc:VGNC:71331]
ENSMMUG00000023226 RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]
ENSMMUG00000023248 serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]
ENSMMUG00000023443 SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]
ENSMMUG00000023480 IKAROS family zinc finger 5 [Source:VGNC Symbol;Acc:VGNC:73590]
ENSMMUG00000023583 calcium release activated channel regulator 2A [Source:NCBI gene;Acc:709929]
ENSMMUG00000023791 SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]
ENSMMUG00000023810 methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]
ENSMMUG00000026876 mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]
ENSMMUG00000026981 EGF like domain multiple 7 [Source:VGNC Symbol;Acc:VGNC:72079]
ENSMMUG00000029197 YY1 transcription factor [Source:NCBI gene;Acc:717370]
ENSMMUG00000031202 RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]
ENSMMUG00000031296 caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]
ENSMMUG00000031856 talin 1 [Source:VGNC Symbol;Acc:VGNC:78371]
ENSMMUG00000032427 neuroligin 3 [Source:NCBI gene;Acc:574216]
ENSMMUG00000033001 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000033102 mml-mir-181b-2 [Source:miRBase;Acc:MI0007646]
ENSMMUG00000037675 testis expressed 52 [Source:NCBI gene;Acc:107000723]
ENSMMUG00000037908
ENSMMUG00000038070 T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]
ENSMMUG00000038319 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000038587 prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]
ENSMMUG00000038661
ENSMMUG00000040154 T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]
ENSMMUG00000040361 ATPase H+ transporting V1 subunit C1 [Source:NCBI gene;Acc:693840]
ENSMMUG00000040771
ENSMMUG00000040817 interferon regulatory factor 9 [Source:VGNC Symbol;Acc:VGNC:84361]
ENSMMUG00000041415 alpha and gamma adaptin binding protein [Source:NCBI gene;Acc:711436]
ENSMMUG00000042208 pepsin A-4 [Source:NCBI gene;Acc:694646]
ENSMMUG00000042668 cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]
ENSMMUG00000043411 zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]
ENSMMUG00000044047 killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]
ENSMMUG00000044214
ENSMMUG00000044417 CD6 molecule [Source:NCBI gene;Acc:695183]
ENSMMUG00000045105 phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]
ENSMMUG00000045446
ENSMMUG00000046218 X antigen family member 5 [Source:NCBI gene;Acc:114669729]
ENSMMUG00000046282
ENSMMUG00000046464 coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]
ENSMMUG00000046655 pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]
ENSMMUG00000047067 SERTA domain containing 2 [Source:NCBI gene;Acc:696216]
ENSMMUG00000047542 U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]
ENSMMUG00000049314 dual specificity phosphatase 2 [Source:NCBI gene;Acc:718442]
ENSMMUG00000049351 MAGE family member E1 [Source:NCBI gene;Acc:705379]
ENSMMUG00000049437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000049563
ENSMMUG00000049720
ENSMMUG00000049749
ENSMMUG00000049788
ENSMMUG00000050493 paired related homeobox 2 [Source:NCBI gene;Acc:716699]
ENSMMUG00000050862
ENSMMUG00000050864
ENSMMUG00000050907
ENSMMUG00000050923
ENSMMUG00000050975
ENSMMUG00000050979 PILR alpha associated neural protein [Source:NCBI gene;Acc:713548]
ENSMMUG00000051100 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051482
ENSMMUG00000051552
ENSMMUG00000051670
ENSMMUG00000051843
ENSMMUG00000051936
ENSMMUG00000052440
ENSMMUG00000052526 RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]
ENSMMUG00000052535
ENSMMUG00000052651 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052791
ENSMMUG00000052818 death associated protein like 1 [Source:NCBI gene;Acc:699071]
ENSMMUG00000052929
ENSMMUG00000053250
ENSMMUG00000053389
ENSMMUG00000053577
ENSMMUG00000053648 actin binding transcription modulator [Source:NCBI gene;Acc:710486]
ENSMMUG00000053721
ENSMMUG00000053778
ENSMMUG00000053789
ENSMMUG00000054116 T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]
ENSMMUG00000054176 methyltransferase like 8 [Source:NCBI gene;Acc:695361]
ENSMMUG00000054213 parathyroid hormone [Source:NCBI gene;Acc:700195]
ENSMMUG00000054357
ENSMMUG00000054689
ENSMMUG00000054953 leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]
ENSMMUG00000055071 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000055207
ENSMMUG00000055229
ENSMMUG00000055284
ENSMMUG00000055400 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055477
ENSMMUG00000055590
ENSMMUG00000055610 homeobox C4 [Source:NCBI gene;Acc:100430434]
ENSMMUG00000055678 translocase of outer mitochondrial membrane 20 like [Source:NCBI gene;Acc:700628]
ENSMMUG00000055845 ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]
ENSMMUG00000056045
ENSMMUG00000056303
ENSMMUG00000056553
ENSMMUG00000056737

ENSMMUG00000057021 CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]
ENSMMUG00000057031
ENSMMUG00000057073
ENSMMUG00000057143 transmembrane protein 127 [Source:NCBI gene;Acc:705069]
ENSMMUG00000057276
ENSMMUG00000057600 V-set and immunoglobulin domain containing 2 [Source:NCBI gene;Acc:712047]
ENSMMUG00000057651 frizzled class receptor 5 [Source:NCBI gene;Acc:710796]
ENSMMUG00000058044
ENSMMUG00000058240
ENSMMUG00000058539
ENSMMUG00000058603
ENSMMUG00000058836 transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]
ENSMMUG00000058933
ENSMMUG00000059267 pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]
ENSMMUG00000059406 RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]
ENSMMUG00000059525
ENSMMUG00000059575
ENSMMUG00000059617
ENSMMUG00000059663
ENSMMUG00000060346
ENSMMUG00000060487 atypical chemokine receptor 3 [Source:NCBI gene;Acc:694428]
ENSMMUG00000060836
ENSMMUG00000060892
ENSMMUG00000060932 zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]
ENSMMUG00000061068
ENSMMUG00000061260 Spi-C transcription factor [Source:NCBI gene;Acc:695809]
ENSMMUG00000061268 PLAG1 zinc finger [Source:NCBI gene;Acc:696149]
ENSMMUG00000061295 PDZ domain containing 11 [Source:NCBI gene;Acc:695458]
ENSMMUG00000061305
ENSMMUG00000061408
ENSMMUG00000061433
ENSMMUG00000061815
ENSMMUG00000061834
ENSMMUG00000061892
ENSMMUG00000062615
ENSMMUG00000062642
ENSMMUG00000062793
ENSMMUG00000062974
ENSMMUG00000063262
ENSMMUG00000063267 aldo-keto reductase family 1 member C15 [Source:NCBI gene;Acc:722496]
ENSMMUG00000063345
ENSMMUG00000063463
ENSMMUG00000063555
ENSMMUG00000063598 leucine rich repeat containing 26 [Source:NCBI gene;Acc:706616]
ENSMMUG00000063655 sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]
ENSMMUG00000064066
ENSMMUG00000064177
ENSMMUG00000064752 phospholipase A2 activating protein [Source:NCBI gene;Acc:707876]
ENSMMUG00000064980
ENSMMUG00000065018 transmembrane protein 35A [Source:NCBI gene;Acc:702205]
ENSMMUG00000065019 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000065058
ENSMMUG00000065091 myelin protein zero like 2 [Source:NCBI gene;Acc:699330]
ENSMMUG00000065099
ENSMMUG00000065344 homeobox D1 [Source:NCBI gene;Acc:701064]
ENSMMUG00000000117 HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]
ENSMMUG00000000350 basic, immunoglobulin-like variable motif containing [Source:NCBI gene;Acc:100426213]
ENSMMUG00000000618 gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]
ENSMMUG00000000620 dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]
ENSMMUG00000000717 CD3e molecule associated protein [Source:NCBI gene;Acc:714440]
ENSMMUG00000000981 T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]
ENSMMUG00000000982 protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]
ENSMMUG00000000983 aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]
ENSMMUG00000001121 zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]
ENSMMUG00000001245 zinc finger protein 532 [Source:NCBI gene;Acc:701146]
ENSMMUG00000001888 mahogunin ring finger 1 [Source:VGNC Symbol;Acc:VGNC:74542]
ENSMMUG00000001940 NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]
ENSMMUG00000001942 mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]
ENSMMUG00000001986 WD repeat domain 24 [Source:VGNC Symbol;Acc:VGNC:79289]
ENSMMUG00000002109 proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]
ENSMMUG00000002113 NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]
ENSMMUG00000002167 mannose receptor C type 2 [Source:VGNC Symbol;Acc:VGNC:74784]
ENSMMUG00000002533 progesterone immunomodulatory binding factor 1 [Source:NCBI gene;Acc:694190]
ENSMMUG00000002638 WD repeat domain 18 [Source:VGNC Symbol;Acc:VGNC:79103]
ENSMMUG00000002657 olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]
ENSMMUG00000002742 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]
ENSMMUG00000002961 G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]
ENSMMUG00000003029 protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]
ENSMMUG00000003043 PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]
ENSMMUG00000003288 glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]
ENSMMUG00000003621 AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]
ENSMMUG00000004019 izumo sperm-egg fusion 1 [Source:VGNC Symbol;Acc:VGNC:73670]
ENSMMUG00000004237 TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]
ENSMMUG00000005170 unc-45 myosin chaperone B [Source:VGNC Symbol;Acc:VGNC:78954]
ENSMMUG00000005727 protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]
ENSMMUG00000006018 sperm associated antigen 5 [Source:NCBI gene;Acc:709400]
ENSMMUG00000006491 mediator complex subunit 9 [Source:VGNC Symbol;Acc:VGNC:74577]
ENSMMUG00000007293 RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]
ENSMMUG00000007398 potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]
ENSMMUG00000007816 SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]
ENSMMUG00000007875 F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]
ENSMMUG00000007920 myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]
ENSMMUG00000008004 transmembrane immune signaling adaptor TYROBP [Source:NCBI gene;Acc:574207]
ENSMMUG00000008119 telomere maintenance 2 [Source:NCBI gene;Acc:701679]
ENSMMUG00000008237 phosphatidylglycerophosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:75890]
ENSMMUG00000008540 ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]
ENSMMUG00000008578 hyaluronan and proteoglycan link protein 4 [Source:VGNC Symbol;Acc:VGNC:73261]
ENSMMUG00000008639 tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]
ENSMMUG00000008942 carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]
ENSMMUG00000008945 zinc finger protein 407 [Source:NCBI gene;Acc:695303]
ENSMMUG00000008946 chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]
ENSMMUG00000009669 cutaneous T cell lymphoma-associated antigen 1 [Source:NCBI gene;Acc:106994443]

ENSMMUG00000011893 KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]
ENSMMUG00000011894 CBY1 interacting BAR domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72335]
ENSMMUG00000011963 vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]
ENSMMUG00000012029 sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]
ENSMMUG00000012209 CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]
ENSMMUG00000012307 periostin [Source:VGNC Symbol;Acc:VGNC:76039]
ENSMMUG00000012332 UBA domain containing 2 [Source:NCBI gene;Acc:703484]
ENSMMUG00000012338 G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]
ENSMMUG00000012677 lysine demethylase 4B [Source:VGNC Symbol;Acc:VGNC:73930]
ENSMMUG00000013035 teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]
ENSMMUG00000013049 formyl peptide receptor 1 [Source:NCBI gene;Acc:719782]
ENSMMUG00000013053 sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]
ENSMMUG00000013138 Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]
ENSMMUG00000013376 POU class 2 homeobox 2 [Source:NCBI gene;Acc:706835]
ENSMMUG00000013501 CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]
ENSMMUG00000013513 sex hormone binding globulin [Source:VGNC Symbol;Acc:VGNC:77208]
ENSMMUG00000013707 heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]
ENSMMUG00000014451 ASXL transcriptional regulator 3 [Source:VGNC Symbol;Acc:VGNC:70152]
ENSMMUG00000014677 dynamin 2 [Source:VGNC Symbol;Acc:VGNC:71957]
ENSMMUG00000014687 sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]
ENSMMUG00000014727 NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]
ENSMMUG00000014735 carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]
ENSMMUG00000016354 IQ motif containing N [Source:VGNC Symbol;Acc:VGNC:73683]
ENSMMUG00000016526 solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]
ENSMMUG00000016695 CD320 molecule [Source:VGNC Symbol;Acc:VGNC:70763]
ENSMMUG00000016723 zinc finger protein 287 [Source:NCBI gene;Acc:695524]
ENSMMUG00000016791 doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]
ENSMMUG00000016906 F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]
ENSMMUG00000016927 solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]
ENSMMUG00000017113 ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]
ENSMMUG00000017211 peter pan homolog (Drosophila) [Source:NCBI gene;Acc:100533472]
ENSMMUG00000017230 V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]
ENSMMUG00000017234 leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]
ENSMMUG00000017246 lipoxigenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]
ENSMMUG00000017379 myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]
ENSMMUG00000017615 zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]
ENSMMUG00000017972 zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]
ENSMMUG00000018031 solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]
ENSMMUG00000018358 zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]
ENSMMUG00000018791 molybdenum cofactor sulfurase [Source:VGNC Symbol;Acc:VGNC:74792]
ENSMMUG00000019145 TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]
ENSMMUG00000019146 DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]
ENSMMUG00000019148 vitronectin [Source:NCBI gene;Acc:708499]
ENSMMUG00000019831 neurobeachin [Source:NCBI gene;Acc:714386]
ENSMMUG00000019850 arachidonate lipoxigenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]
ENSMMUG00000019892 myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]
ENSMMUG00000020061 protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]
ENSMMUG00000020175 mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]
ENSMMUG00000020540 NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]
ENSMMUG00000020690 erythrocyte membrane protein band 4.1 like 1 [Source:VGNC Symbol;Acc:VGNC:72231]
ENSMMUG00000020691 AAR2 splicing factor [Source:VGNC Symbol;Acc:VGNC:69412]

ENSMMUG00000020898 cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]
ENSMMUG00000021091 COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]
ENSMMUG00000021409 developmentally regulated GTP binding protein 2 [Source:VGNC Symbol;Acc:VGNC:71993]
ENSMMUG00000022120 transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]
ENSMMUG00000022121 CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]
ENSMMUG00000022123 tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]
ENSMMUG00000022726 dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]
ENSMMUG00000022975 sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]
ENSMMUG00000023076 diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]
ENSMMUG00000023083 A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]
ENSMMUG00000023137 zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]
ENSMMUG00000023312 haptoglobin [Source:NCBI gene;Acc:706640]
ENSMMUG00000026836 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000027108 mml-mir-193b [Source:miRBase;Acc:MI0007656]
ENSMMUG00000028800 solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]
ENSMMUG00000028925 HDGF like 2 [Source:NCBI gene;Acc:693476]
ENSMMUG00000029164 glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]
ENSMMUG00000029263 polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]
ENSMMUG00000030381 arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]
ENSMMUG00000031224 casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]
ENSMMUG00000038371 JunD proto-oncogene, AP-1 transcription factor subunit [Source:NCBI gene;Acc:720182]
ENSMMUG00000038447
ENSMMUG00000038935 zinc finger CCHC-type containing 3 [Source:NCBI gene;Acc:714477]
ENSMMUG00000040803 sarcalumenin [Source:NCBI gene;Acc:704655]
ENSMMUG00000041450 zinc finger protein 432 [Source:NCBI gene;Acc:100424341]
ENSMMUG00000046237 4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]
ENSMMUG00000048077 ataxin 1 like [Source:NCBI gene;Acc:709805]
ENSMMUG00000049699 thioredoxin like 4B [Source:NCBI gene;Acc:706840]
ENSMMUG00000049948
ENSMMUG00000049968 RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]
ENSMMUG00000049997
ENSMMUG00000050065
ENSMMUG00000050177
ENSMMUG00000050544
ENSMMUG00000051112 p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]
ENSMMUG00000051115
ENSMMUG00000051261
ENSMMUG00000051286
ENSMMUG00000051743 TLC domain containing 1 [Source:NCBI gene;Acc:710391]
ENSMMUG00000051911
ENSMMUG00000052070 caudal type homeobox 2 [Source:NCBI gene;Acc:711094]
ENSMMUG00000052091 dishevelled segment polarity protein 2 [Source:NCBI gene;Acc:714381]
ENSMMUG00000052277 transthyretin [Source:NCBI gene;Acc:705943]
ENSMMUG00000052605 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052676
ENSMMUG00000052786
ENSMMUG00000052977 putative protein FAM106C [Source:NCBI gene;Acc:106994084]
ENSMMUG00000053008
ENSMMUG00000053150 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000053675
ENSMMUG00000054064

ENSMMUG00000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]
ENSMMUG00000054246	
ENSMMUG00000054711	
ENSMMUG00000055344	TLC domain containing 3A [Source:NCBI gene;Acc:699707]
ENSMMUG00000055864	
ENSMMUG00000055889	
ENSMMUG00000056147	
ENSMMUG00000056257	
ENSMMUG00000056306	
ENSMMUG00000056387	transcription factor 15 [Source:NCBI gene;Acc:716916]
ENSMMUG00000057302	
ENSMMUG00000057475	
ENSMMUG00000057655	
ENSMMUG00000057808	
ENSMMUG00000058016	bMERB domain containing 1 [Source:NCBI gene;Acc:713757]
ENSMMUG00000058142	
ENSMMUG00000058966	
ENSMMUG00000060408	
ENSMMUG00000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]
ENSMMUG00000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]
ENSMMUG00000061452	
ENSMMUG00000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062017	
ENSMMUG00000062198	transmembrane protein 204 [Source:NCBI gene;Acc:701926]
ENSMMUG00000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]
ENSMMUG00000062623	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062664	
ENSMMUG00000062791	
ENSMMUG00000062866	
ENSMMUG00000063312	
ENSMMUG00000063668	cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]
ENSMMUG00000064131	
ENSMMUG00000064237	
ENSMMUG00000064642	
ENSMMUG00000064806	
ENSMMUG00000064975	zinc finger protein 221 [Source:NCBI gene;Acc:100423743]
ENSMMUG00000065008	
ENSMMUG00000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]

Non-Survivors - SD1 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]
ENSMMUG00000000021	catsper channel auxiliary subunit epsilon [Source:VGNC Symbol;Acc:VGNC:70657]
ENSMMUG00000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]
ENSMMUG00000000244	coagulation factor XIII B chain [Source:VGNC Symbol;Acc:VGNC:72463]

ENSMMUG0000000662 guanylate-binding protein 1 [Source:NCBI gene;Acc:694538]
ENSMMUG0000000663 guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]
ENSMMUG0000000962 H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]
ENSMMUG0000000972 tyrosine kinase non receptor 2 [Source:VGNC Symbol;Acc:VGNC:79192]
ENSMMUG0000001264 BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]
ENSMMUG0000001479 laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]
ENSMMUG0000001481 nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]
ENSMMUG0000001529 solute carrier family 25 member 26 [Source:VGNC Symbol;Acc:VGNC:77530]
ENSMMUG0000001531 leucine rich repeats and immunoglobulin like domains 1 [Source:VGNC Symbol;Acc:VGNC:84156]
ENSMMUG0000001549 ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]
ENSMMUG0000001551 SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]
ENSMMUG0000001742 transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]
ENSMMUG0000001849 interleukin 5 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73731]
ENSMMUG0000001892 UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]
ENSMMUG0000001894 cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]
ENSMMUG0000001896 G protein subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73095]
ENSMMUG0000001918 transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]
ENSMMUG0000002003 upstream transcription factor 1 [Source:NCBI gene;Acc:719835]
ENSMMUG0000002007 kelch domain containing 9 [Source:NCBI gene;Acc:719863]
ENSMMUG0000002010 death effector domain containing [Source:VGNC Symbol;Acc:VGNC:71768]
ENSMMUG0000002200 phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]
ENSMMUG0000002318 stimulated by retinoic acid 8 [Source:VGNC Symbol;Acc:VGNC:78250]
ENSMMUG0000002434 inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]
ENSMMUG0000002497 zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]
ENSMMUG0000002652 zinc finger MIZ-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79350]
ENSMMUG0000002794 general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]
ENSMMUG0000002894 dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]
ENSMMUG0000002947 procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]
ENSMMUG0000003051 COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]
ENSMMUG0000003191 kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]
ENSMMUG0000003277 copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]
ENSMMUG0000003369 calcium/calmodulin dependent protein kinase IG [Source:VGNC Symbol;Acc:VGNC:70521]
ENSMMUG0000003595 peroxisomal biogenesis factor 5 like [Source:VGNC Symbol;Acc:VGNC:75889]
ENSMMUG0000003634 DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]
ENSMMUG0000003736 nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]
ENSMMUG0000003987 forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]
ENSMMUG0000004052 phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]
ENSMMUG0000004362 Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]
ENSMMUG0000004432 anaphase promoting complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:69682]
ENSMMUG0000004433 ATP binding cassette subfamily E member 1 [Source:VGNC Symbol;Acc:VGNC:69581]
ENSMMUG0000004437 OTU deubiquitinase 4 [Source:VGNC Symbol;Acc:VGNC:75675]
ENSMMUG0000004566 zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]
ENSMMUG0000004598 bisphosphoglycerate mutase [Source:VGNC Symbol;Acc:VGNC:70275]
ENSMMUG0000004648 KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]
ENSMMUG0000004754 intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]
ENSMMUG0000004849 casein beta [Source:VGNC Symbol;Acc:VGNC:71523]
ENSMMUG0000005137 ATPase secretory pathway Ca²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]
ENSMMUG0000005181 RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]
ENSMMUG0000005466 SPOC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77997]
ENSMMUG0000005515 ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]
ENSMMUG0000005634 ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]

ENSMMUG0000005801 glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]
ENSMMUG0000005888 tetratricopeptide repeat domain 13 [Source:VGNC Symbol;Acc:VGNC:79588]
ENSMMUG0000006155 zinc finger C3HC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79827]
ENSMMUG0000006187 angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]
ENSMMUG0000006214 olfactory receptor family 11 subfamily L member 1 [Source:HGNC Symbol;Acc:HGNC:14998]
ENSMMUG0000006217 general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]
ENSMMUG0000006252 argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]
ENSMMUG0000006309 unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]
ENSMMUG0000006454 kelch like family member 18 [Source:VGNC Symbol;Acc:VGNC:74154]
ENSMMUG0000006548 KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]
ENSMMUG0000006553 dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]
ENSMMUG0000006561 tRNA selenocysteine 1 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79885]
ENSMMUG0000006682 chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]
ENSMMUG0000006688 ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]
ENSMMUG0000006702 bone morphogenetic protein receptor type 1B [Source:VGNC Symbol;Acc:VGNC:70267]
ENSMMUG0000006703 solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]
ENSMMUG0000006704 zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]
ENSMMUG0000006705 FRY like transcription coactivator [Source:VGNC Symbol;Acc:VGNC:72803]
ENSMMUG0000006796 betaine--homocysteine S-methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70248]
ENSMMUG0000006898 integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]
ENSMMUG0000006904 cyclin L2 [Source:NCBI gene;Acc:114669744]
ENSMMUG0000007109 dishevelled segment polarity protein 1 [Source:NCBI gene;Acc:705864]
ENSMMUG0000007110 serine and arginine rich splicing factor 4 [Source:NCBI gene;Acc:717401]
ENSMMUG0000007244 OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]
ENSMMUG0000007246 myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]
ENSMMUG0000007250 RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]
ENSMMUG0000007256 splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]
ENSMMUG0000007257 synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]
ENSMMUG0000007524 RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]
ENSMMUG0000007565 Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]
ENSMMUG0000007765 Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]
ENSMMUG0000007766 suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]
ENSMMUG0000007783 isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]
ENSMMUG0000007821 ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]
ENSMMUG0000007968 hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]
ENSMMUG0000008155 POU class 2 homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76223]
ENSMMUG0000008579 defective in cullin neddylation 1 domain containing 4 [Source:VGNC Symbol;Acc:VGNC:71809]
ENSMMUG0000008632 myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]
ENSMMUG0000008705 ubiquitin specific peptidase 53 [Source:VGNC Symbol;Acc:VGNC:79793]
ENSMMUG0000008713 myosin binding protein H like [Source:NCBI gene;Acc:698183]
ENSMMUG0000008733 ubiquitin protein ligase E3C [Source:VGNC Symbol;Acc:VGNC:79049]
ENSMMUG0000008795 polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]
ENSMMUG0000008797 ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]
ENSMMUG0000008916 transferrin [Source:VGNC Symbol;Acc:VGNC:82716]
ENSMMUG0000008917 S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]
ENSMMUG0000008918 SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]
ENSMMUG0000008919 RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]
ENSMMUG0000008974 Fc receptor like 5 [Source:NCBI gene;Acc:718771]
ENSMMUG0000009001 transmembrane 131 like [Source:VGNC Symbol;Acc:VGNC:79781]
ENSMMUG0000009431 HEN methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73241]
ENSMMUG0000009536 makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]

ENSMMUG0000009694 solute carrier family 9 member A9 [Source:VGNC Symbol;Acc:VGNC:77747]
ENSMMUG0000009773 lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]
ENSMMUG0000009948 histone deacetylase 1 [Source:NCBI gene;Acc:708441]
ENSMMUG00000010113 steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]
ENSMMUG00000010127 chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]
ENSMMUG00000010328 MYST/Esa1 associated factor 6 [Source:VGNC Symbol;Acc:VGNC:74580]
ENSMMUG00000010379 Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]
ENSMMUG00000010648 DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]
ENSMMUG00000010695 adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]
ENSMMUG00000010703 KIAA0895 [Source:VGNC Symbol;Acc:VGNC:73884]
ENSMMUG00000010879 NAD kinase [Source:VGNC Symbol;Acc:VGNC:75047]
ENSMMUG00000010978 S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]
ENSMMUG00000011137 arylacetamide deacetylase like 4 [Source:VGNC Symbol;Acc:VGNC:81338]
ENSMMUG00000011269 CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]
ENSMMUG00000011335 Fc receptor like 6 [Source:VGNC Symbol;Acc:VGNC:72602]
ENSMMUG00000011338 SLAM family member 8 [Source:VGNC Symbol;Acc:VGNC:77545]
ENSMMUG00000011386 GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]
ENSMMUG00000011702 tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]
ENSMMUG00000011810 FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]
ENSMMUG00000011902 oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]
ENSMMUG00000012110 smoothed, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]
ENSMMUG00000012151 glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]
ENSMMUG00000012561 NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]
ENSMMUG00000012961 mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]
ENSMMUG00000013188 serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]
ENSMMUG00000013661 presenilin associated rhomboid like [Source:NCBI gene;Acc:704652]
ENSMMUG00000013851 lipoic acid synthetase [Source:VGNC Symbol;Acc:VGNC:74057]
ENSMMUG00000014018 bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]
ENSMMUG00000014173
ENSMMUG00000014540 acylaminoacyl-peptide hydrolase [Source:VGNC Symbol;Acc:VGNC:69982]
ENSMMUG00000014955 nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]
ENSMMUG00000015041 CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]
ENSMMUG00000015132 galectin 8 [Source:VGNC Symbol;Acc:VGNC:74258]
ENSMMUG00000015309 F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]
ENSMMUG00000015311 leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]
ENSMMUG00000015371 microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]
ENSMMUG00000015566 holocarboxylase synthetase [Source:VGNC Symbol;Acc:VGNC:73477]
ENSMMUG00000015661 protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]
ENSMMUG00000015799 tolloid like 1 [Source:VGNC Symbol;Acc:VGNC:78369]
ENSMMUG00000016004 acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]
ENSMMUG00000016286 protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]
ENSMMUG00000016399 ral guanine nucleotide dissociation stimulator like 1 [Source:VGNC Symbol;Acc:VGNC:76868]
ENSMMUG00000016581 methyltransferase like 18 [Source:VGNC Symbol;Acc:VGNC:74606]
ENSMMUG00000016812 coiled-coil domain containing 18 [Source:VGNC Symbol;Acc:VGNC:70913]
ENSMMUG00000016857 prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]
ENSMMUG00000016880 solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]
ENSMMUG00000016893 solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]
ENSMMUG00000016925 laminin subunit beta 3 [Source:VGNC Symbol;Acc:VGNC:74230]
ENSMMUG00000017008 GTPase, IMAP family member 2 [Source:VGNC Symbol;Acc:VGNC:72980]
ENSMMUG00000017125 oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]
ENSMMUG00000017333 CD244 molecule [Source:VGNC Symbol;Acc:VGNC:70821]

ENSMMUG00000017396 3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]
ENSMMUG00000017583 single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]
ENSMMUG00000018057 uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]
ENSMMUG00000018058 ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]
ENSMMUG00000018073 ligand dependent nuclear receptor corepressor like [Source:NCBI gene;Acc:715285]
ENSMMUG00000018079 transmembrane serine protease 3 [Source:VGNC Symbol;Acc:VGNC:78576]
ENSMMUG00000018081 ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]
ENSMMUG00000018163 caspase 9 [Source:NCBI gene;Acc:694544]
ENSMMUG00000018282 interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]
ENSMMUG00000018283 dihydrofolate reductase [Source:NCBI gene;Acc:711268]
ENSMMUG00000018285 cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]
ENSMMUG00000018290 ER membrane protein complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72091]
ENSMMUG00000018444 dual specificity phosphatase 23 [Source:VGNC Symbol;Acc:VGNC:71880]
ENSMMUG00000018490 ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]
ENSMMUG00000018493 FH2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72598]
ENSMMUG00000018525 presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]
ENSMMUG00000018565 ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]
ENSMMUG00000018625 NIPA like domain containing 1 [Source:NCBI gene;Acc:704998]
ENSMMUG00000018745 chromosome 6 C5orf49 homolog [Source:VGNC Symbol;Acc:VGNC:70646]
ENSMMUG00000018746 FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]
ENSMMUG00000018747 5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]
ENSMMUG00000018795 kynurenine aminotransferase 3 [Source:VGNC Symbol;Acc:VGNC:74177]
ENSMMUG00000018939 leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]
ENSMMUG00000018943 spermatogenesis associated 18 [Source:VGNC Symbol;Acc:VGNC:78013]
ENSMMUG00000019105 RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]
ENSMMUG00000019262 calcium voltage-gated channel subunit alpha1 D [Source:VGNC Symbol;Acc:VGNC:70501]
ENSMMUG00000019266 choline dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71086]
ENSMMUG00000019325 mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]
ENSMMUG00000019714 vav guanine nucleotide exchange factor 3 [Source:VGNC Symbol;Acc:VGNC:78759]
ENSMMUG00000019740 zinc finger DHHC-type palmitoyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:79143]
ENSMMUG00000019815 transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]
ENSMMUG00000019854 transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]
ENSMMUG00000019856 olfactory receptor 2F2-like [Source:NCBI gene;Acc:100428924]
ENSMMUG00000019857 beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]
ENSMMUG00000019977 myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]
ENSMMUG00000019992 growth factor receptor bound protein 10 [Source:VGNC Symbol;Acc:VGNC:73157]
ENSMMUG00000020049 phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]
ENSMMUG00000020117 semaphorin 3B [Source:VGNC Symbol;Acc:VGNC:77160]
ENSMMUG00000020184 carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]
ENSMMUG00000020294 phosphoinositide-3-kinase regulatory subunit 4 [Source:VGNC Symbol;Acc:VGNC:84060]
ENSMMUG00000020377 collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]
ENSMMUG00000020418 diacylglycerol kinase beta [Source:VGNC Symbol;Acc:VGNC:71782]
ENSMMUG00000020435 amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]
ENSMMUG00000020436 potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]
ENSMMUG00000020731 terminal nucleotidyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:79637]
ENSMMUG00000020910 nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]
ENSMMUG00000020913 scavenger receptor class B member 2 [Source:VGNC Symbol;Acc:VGNC:77026]
ENSMMUG00000020954 cell division cycle 25A [Source:VGNC Symbol;Acc:VGNC:70794]
ENSMMUG00000021078 ATPase Na⁺/K⁺ transporting subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70176]
ENSMMUG00000021385 carbonic anhydrase 14 [Source:VGNC Symbol;Acc:VGNC:70489]
ENSMMUG00000021388 circadian associated repressor of transcription [Source:VGNC Symbol;Acc:VGNC:71345]

ENSMMUG00000021507 chromosome 2 C3orf38 homolog [Source:VGNC Symbol;Acc:VGNC:70654]
ENSMMUG00000021695 Morf4 family associated protein 1 [Source:NCBI gene;Acc:710771]
ENSMMUG00000021806 vestigial like family member 4 [Source:VGNC Symbol;Acc:VGNC:79755]
ENSMMUG00000021875 myoneurin [Source:VGNC Symbol;Acc:VGNC:74958]
ENSMMUG00000021917 leucine rich repeat containing 7 [Source:NCBI gene;Acc:702347]
ENSMMUG00000022153 solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]
ENSMMUG00000022183 spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]
ENSMMUG00000022199 polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]
ENSMMUG00000022484 ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]
ENSMMUG00000022562 interleukin 1 receptor accessory protein [Source:VGNC Symbol;Acc:VGNC:73718]
ENSMMUG00000022624 putative speedy protein E16 [Source:NCBI gene;Acc:718058]
ENSMMUG00000022630 protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]
ENSMMUG00000022631 ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]
ENSMMUG00000022632 ubiquitin-fold modifier conjugating enzyme 1 [Source:VGNC Symbol;Acc:VGNC:79643]
ENSMMUG00000022636 GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]
ENSMMUG00000022643 Ro60, Y RNA binding protein [Source:NCBI gene;Acc:715194]
ENSMMUG00000022647 cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]
ENSMMUG00000022697 STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]
ENSMMUG00000022715 adenosylhomocysteinase like 1 [Source:VGNC Symbol;Acc:VGNC:81350]
ENSMMUG00000022727 lysine methyltransferase 2E [Source:VGNC Symbol;Acc:VGNC:74073]
ENSMMUG00000022762 OMA1 zinc metallopeptidase [Source:VGNC Symbol;Acc:VGNC:75485]
ENSMMUG00000022791 heat shock transcription factor 2 binding protein [Source:VGNC Symbol;Acc:VGNC:73532]
ENSMMUG00000022880 eukaryotic translation initiation factor 5A2 [Source:VGNC Symbol;Acc:VGNC:72198]
ENSMMUG00000022927 RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]
ENSMMUG00000023096 obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]
ENSMMUG00000023116 LIM domain binding 2 [Source:VGNC Symbol;Acc:VGNC:74246]
ENSMMUG00000023124 transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]
ENSMMUG00000023125 XPC complex subunit, DNA damage recognition and repair factor [Source:VGNC Symbol;Acc:VGNC:78809]
ENSMMUG00000023141 CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]
ENSMMUG00000023396 hypocretin receptor 1 [Source:VGNC Symbol;Acc:VGNC:73356]
ENSMMUG00000023398 collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]
ENSMMUG00000023401 adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]
ENSMMUG00000023462 immunoglobulin like domain containing receptor 2 [Source:VGNC Symbol;Acc:VGNC:73619]
ENSMMUG00000023676 espin [Source:NCBI gene;Acc:722532]
ENSMMUG00000024186 U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]
ENSMMUG00000024598 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000026103 U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]
ENSMMUG00000026897 mml-mir-215 [Source:miRBase;Acc:MI0003025]
ENSMMUG00000030099 phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]
ENSMMUG00000031497
ENSMMUG00000031821 chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]
ENSMMUG00000032244 DnaJ heat shock protein family (Hsp40) member C16 [Source:NCBI gene;Acc:700894]
ENSMMUG00000032252 UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]
ENSMMUG00000032306 zinc finger FYVE-type containing 28 [Source:NCBI gene;Acc:720600]
ENSMMUG00000032973 mml-mir-550 [Source:miRBase;Acc:MI0007826]
ENSMMUG00000037485
ENSMMUG00000037551 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000039020 zinc finger protein 141 [Source:NCBI gene;Acc:714265]
ENSMMUG00000039033 nucleolar protein with MIF4G domain 1 [Source:VGNC Symbol;Acc:VGNC:81729]
ENSMMUG00000039441 mab-21 like 2 [Source:NCBI gene;Acc:693948]
ENSMMUG00000039944 Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]

ENSMMUG00000040506 H2B clustered histone 18 [Source:HGNC Symbol;Acc:HGNC:24700]
ENSMMUG00000040694 LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]
ENSMMUG00000040764 alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]
ENSMMUG00000041837 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000042798
ENSMMUG00000043727 zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]
ENSMMUG00000043809 caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]
ENSMMUG00000043922 spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]
ENSMMUG00000044175 forkhead box O6 [Source:NCBI gene;Acc:697505]
ENSMMUG00000044628
ENSMMUG00000044759
ENSMMUG00000045497 complement factor H [Source:NCBI gene;Acc:717346]
ENSMMUG00000045584 leucine zipper protein 1 [Source:NCBI gene;Acc:718626]
ENSMMUG00000046785
ENSMMUG00000047162 fibroblast growth factor 10 [Source:VGNC Symbol;Acc:VGNC:84378]
ENSMMUG00000047276 GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]
ENSMMUG00000047994 CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]
ENSMMUG00000048232 MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]
ENSMMUG00000048805
ENSMMUG00000048823
ENSMMUG00000048892 SCO-spondin [Source:VGNC Symbol;Acc:VGNC:81765]
ENSMMUG00000049196 dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]
ENSMMUG00000049295 GTPase, IMAP family member 5 [Source:NCBI gene;Acc:713835]
ENSMMUG00000049396 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049575 T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]
ENSMMUG00000049640
ENSMMUG00000049786
ENSMMUG00000049859
ENSMMUG00000049885
ENSMMUG00000049939
ENSMMUG00000050186 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050269 T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]
ENSMMUG00000050300
ENSMMUG00000050858 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050994
ENSMMUG00000051020 zinc finger protein 467 [Source:NCBI gene;Acc:712106]
ENSMMUG00000051032 serine protease 2 [Source:NCBI gene;Acc:698352]
ENSMMUG00000051155 U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]
ENSMMUG00000051296 paired like homeobox 2B [Source:NCBI gene;Acc:701940]
ENSMMUG00000051381 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051385
ENSMMUG00000051429
ENSMMUG00000051523 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051641
ENSMMUG00000051661
ENSMMUG00000051768
ENSMMUG00000052282
ENSMMUG00000052287
ENSMMUG00000052327
ENSMMUG00000052382 histone H4 [Source:NCBI gene;Acc:107000818]
ENSMMUG00000052435 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000052463 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052479
ENSMMUG00000052537
ENSMMUG00000052540
ENSMMUG00000052574
ENSMMUG00000052609 ribosomal protein L34 [Source:NCBI gene;Acc:696636]
ENSMMUG00000052682
ENSMMUG00000052830
ENSMMUG00000053036
ENSMMUG00000053235
ENSMMUG00000053344 splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]
ENSMMUG00000053454 Ras like without CAAX 1 [Source:NCBI gene;Acc:717985]
ENSMMUG00000053541
ENSMMUG00000053550
ENSMMUG00000054078 histone H3 [Source:NCBI gene;Acc:114669830]
ENSMMUG00000054290
ENSMMUG00000054309 PRAME family member 5 [Source:NCBI gene;Acc:722781]
ENSMMUG00000054312
ENSMMUG00000054412
ENSMMUG00000054615
ENSMMUG00000054719
ENSMMUG00000054821
ENSMMUG00000055097
ENSMMUG00000055233 PRAME family member 17-like [Source:NCBI gene;Acc:100427847]
ENSMMUG00000055244 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055530 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055585
ENSMMUG00000055637
ENSMMUG00000055759 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055783
ENSMMUG00000055809
ENSMMUG00000055835 nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]
ENSMMUG00000056103 growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]
ENSMMUG00000056116
ENSMMUG00000056196
ENSMMUG00000056280 G protein subunit alpha i2 [Source:NCBI gene;Acc:703780]
ENSMMUG00000056687
ENSMMUG00000056769 C-C motif chemokine receptor 1 [Source:VGNC Symbol;Acc:VGNC:70737]
ENSMMUG00000057173
ENSMMUG00000057494 T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]
ENSMMUG00000057501
ENSMMUG00000057606 GPRIN family member 3 [Source:NCBI gene;Acc:703567]
ENSMMUG00000057763
ENSMMUG00000057768
ENSMMUG00000057895
ENSMMUG00000057951 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000057973
ENSMMUG00000058133
ENSMMUG00000058302
ENSMMUG00000058332 testis expressed 46 [Source:NCBI gene;Acc:709002]
ENSMMUG00000058459

ENSMMUG00000059019
ENSMMUG00000059101
ENSMMUG00000059208 aurora kinase A interacting protein 1 [Source:NCBI gene;Acc:706329]
ENSMMUG00000059657 chromosome 5 C4orf36 homolog [Source:NCBI gene;Acc:700500]
ENSMMUG00000059707 MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]
ENSMMUG00000059773 methyltransferase like 11B [Source:NCBI gene;Acc:705503]
ENSMMUG00000059855 Smad nuclear interacting protein 1 [Source:NCBI gene;Acc:713733]
ENSMMUG00000059938
ENSMMUG00000059986
ENSMMUG00000060167
ENSMMUG00000060319 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060505
ENSMMUG00000060541
ENSMMUG00000060600
ENSMMUG00000060744
ENSMMUG00000060798
ENSMMUG00000060830
ENSMMUG00000060871 prefoldin subunit 2 [Source:NCBI gene;Acc:719886]
ENSMMUG00000060893
ENSMMUG00000060894 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061036 histone cluster 2, H2ab [Source:NCBI gene;Acc:705170]
ENSMMUG00000061096 tubulin polymerization promoting protein [Source:NCBI gene;Acc:708834]
ENSMMUG00000061973
ENSMMUG00000062021
ENSMMUG00000062140
ENSMMUG00000062338
ENSMMUG00000062527
ENSMMUG00000063972
ENSMMUG00000064202
ENSMMUG00000064337 nectin cell adhesion molecule 4 [Source:NCBI gene;Acc:719843]
ENSMMUG00000064458
ENSMMUG00000064529
ENSMMUG00000064587
ENSMMUG00000064596 ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674454]
ENSMMUG00000064721
ENSMMUG00000065105
ENSMMUG00000065108
ENSMMUG00000065128 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065257
ENSMMUG00000065307
ENSMMUG00000065322 ATP synthase peripheral stalk-membrane subunit b [Source:NCBI gene;Acc:704072]
ENSMMUG00000000205 transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]
ENSMMUG00000000238 HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]
ENSMMUG00000000443 arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]
ENSMMUG00000000667 zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]
ENSMMUG00000000669 gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]
ENSMMUG00000000681 calmin [Source:VGNC Symbol;Acc:VGNC:71232]
ENSMMUG00000001008 spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]
ENSMMUG00000001209 arylsulfatase family member K [Source:VGNC Symbol;Acc:VGNC:84280]
ENSMMUG00000001212 Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]
ENSMMUG00000001213 spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]

ENSMMUG00000001319 methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]
ENSMMUG00000001357 tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]
ENSMMUG00000001359 caprin family member 2 [Source:VGNC Symbol;Acc:VGNC:70599]
ENSMMUG00000001374 supervillin [Source:NCBI gene;Acc:695267]
ENSMMUG00000001386 neurotrophic receptor tyrosine kinase 3 [Source:VGNC Symbol;Acc:VGNC:75542]
ENSMMUG00000001640 SIX homeobox 4 [Source:NCBI gene;Acc:703798]
ENSMMUG00000001642 MNAT1 component of CDK activating kinase [Source:VGNC Symbol;Acc:VGNC:74905]
ENSMMUG00000001728 mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]
ENSMMUG00000001876 phosphoinositide-3-kinase adaptor protein 1 [Source:VGNC Symbol;Acc:VGNC:75891]
ENSMMUG00000002032 exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]
ENSMMUG00000002038 cell migration inducing hyaluronidase 1 [Source:VGNC Symbol;Acc:VGNC:71130]
ENSMMUG00000002332 RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]
ENSMMUG00000002649 unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]
ENSMMUG00000002653 hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]
ENSMMUG00000002768 neuronal regeneration related protein [Source:VGNC Symbol;Acc:VGNC:84454]
ENSMMUG00000002879 GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]
ENSMMUG00000002890 tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]
ENSMMUG00000002911 mutL homolog 3 [Source:VGNC Symbol;Acc:VGNC:82187]
ENSMMUG00000003049 testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]
ENSMMUG00000003120 HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]
ENSMMUG00000003134 ring finger protein 217 [Source:VGNC Symbol;Acc:VGNC:76801]
ENSMMUG00000003221 DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]
ENSMMUG00000003238 pregnancy zone protein [Source:NCBI gene;Acc:100430319]
ENSMMUG00000003261 BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]
ENSMMUG00000003483 cyclin dependent kinase 2 interacting protein [Source:VGNC Symbol;Acc:VGNC:71326]
ENSMMUG00000003497 FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]
ENSMMUG00000003511 chloride intracellular channel 5 [Source:VGNC Symbol;Acc:VGNC:71171]
ENSMMUG00000003850 collagen type XI alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71290]
ENSMMUG00000003858 retinoid X receptor beta [Source:VGNC Symbol;Acc:VGNC:76952]
ENSMMUG00000003859 solute carrier family 39 member 7 [Source:VGNC Symbol;Acc:VGNC:77592]
ENSMMUG00000003864 VPS52 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:78551]
ENSMMUG00000003869 WD repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:78940]
ENSMMUG00000003872 ral guanine nucleotide dissociation stimulator like 2 [Source:VGNC Symbol;Acc:VGNC:76886]
ENSMMUG00000003877 KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]
ENSMMUG00000004091 transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]
ENSMMUG00000004178 NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]
ENSMMUG00000004233 leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]
ENSMMUG00000004287 death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]
ENSMMUG00000004386 sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]
ENSMMUG00000004387 ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]
ENSMMUG00000004460 tyrosyl-DNA phosphodiesterase 1 [Source:VGNC Symbol;Acc:VGNC:79164]
ENSMMUG00000004559 potassium voltage-gated channel subfamily D member 1 [Source:VGNC Symbol;Acc:VGNC:73975]
ENSMMUG00000004617 glutathione peroxidase 6 [Source:VGNC Symbol;Acc:VGNC:73154]
ENSMMUG00000004674 phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]
ENSMMUG00000004954 apoptosis inducing factor mitochondria associated 1 [Source:VGNC Symbol;Acc:VGNC:69820]
ENSMMUG00000005067 elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]
ENSMMUG00000005225 gap junction protein alpha 1 [Source:VGNC Symbol;Acc:VGNC:73055]
ENSMMUG00000005246 zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]
ENSMMUG00000005312 glutaredoxin [Source:VGNC Symbol;Acc:VGNC:84383]
ENSMMUG00000005365 peroxisomal biogenesis factor 3 [Source:VGNC Symbol;Acc:VGNC:75951]
ENSMMUG00000005366 alpha-L-fucosidase 2 [Source:VGNC Symbol;Acc:VGNC:72827]

ENSMMUG0000005442 5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]
ENSMMUG0000005856 glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]
ENSMMUG0000005923 failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]
ENSMMUG0000006457 Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]
ENSMMUG0000006768 coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]
ENSMMUG0000006775 proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]
ENSMMUG0000007159 tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]
ENSMMUG0000007255 microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]
ENSMMUG0000007264 transmembrane protein 30B [Source:VGNC Symbol;Acc:VGNC:79656]
ENSMMUG0000007411 integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]
ENSMMUG0000007424 nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]
ENSMMUG0000007504 myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]
ENSMMUG0000007561 zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]
ENSMMUG0000007775 survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]
ENSMMUG0000008009 family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]
ENSMMUG0000008093 StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]
ENSMMUG0000008212 tenomodulin [Source:VGNC Symbol;Acc:VGNC:79087]
ENSMMUG0000008213 reticulocalbin 2 [Source:VGNC Symbol;Acc:VGNC:76887]
ENSMMUG0000008214 nuclear export mediator factor [Source:VGNC Symbol;Acc:VGNC:84407]
ENSMMUG0000008228 unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]
ENSMMUG0000008447 fibulin 5 [Source:VGNC Symbol;Acc:VGNC:72622]
ENSMMUG0000008525 minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]
ENSMMUG0000008539 uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]
ENSMMUG0000008542 DEAH-box helicase 32 (putative) [Source:NCBI gene;Acc:695919]
ENSMMUG0000008546 cyclin D2 [Source:NCBI gene;Acc:710379]
ENSMMUG0000008710 protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]
ENSMMUG0000008718 zinc finger protein 280D [Source:NCBI gene;Acc:699509]
ENSMMUG0000008738 COMM domain containing 10 [Source:VGNC Symbol;Acc:VGNC:71374]
ENSMMUG0000008781 BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]
ENSMMUG0000008792 G-patch domain containing 2 like [Source:VGNC Symbol;Acc:VGNC:72973]
ENSMMUG0000008867 exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]
ENSMMUG0000009084 transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]
ENSMMUG0000009155 SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]
ENSMMUG0000009409 mesoderm development LRP chaperone [Source:VGNC Symbol;Acc:VGNC:74507]
ENSMMUG0000009520 gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]
ENSMMUG0000009838 COP9 signalosome subunit 2 [Source:VGNC Symbol;Acc:VGNC:71376]
ENSMMUG0000009839 galactokinase 2 [Source:VGNC Symbol;Acc:VGNC:72870]
ENSMMUG0000009958 ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]
ENSMMUG0000010049 NOP9 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75216]
ENSMMUG0000010171 proline-serine-threonine phosphatase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:76459]
ENSMMUG0000010404 zinc finger protein 41 [Source:VGNC Symbol;Acc:VGNC:78900]
ENSMMUG0000010440 adenylate cyclase 8 [Source:VGNC Symbol;Acc:VGNC:69516]
ENSMMUG0000010682 fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]
ENSMMUG0000010748 transient receptor potential cation channel subfamily A member 1 [Source:VGNC Symbol;Acc:VGNC:78429]
ENSMMUG0000010819 fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]
ENSMMUG0000010891 lysine acetyltransferase 6A [Source:VGNC Symbol;Acc:VGNC:73821]
ENSMMUG0000011047 S-phase cyclin A associated protein in the ER [Source:VGNC Symbol;Acc:VGNC:77006]
ENSMMUG0000011214 solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]
ENSMMUG0000011469 germ cell nuclear acidic peptidase [Source:VGNC Symbol;Acc:VGNC:72724]
ENSMMUG0000011515 striatin 3 [Source:VGNC Symbol;Acc:VGNC:78127]
ENSMMUG0000011573 cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]

ENSMMUG00000011575 coiled-coil domain containing 167 [Source:VGNC Symbol;Acc:VGNC:70833]
ENSMMUG00000011675 zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]
ENSMMUG00000011974 calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]
ENSMMUG00000012120 zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]
ENSMMUG00000012122 protein phosphatase 1 regulatory inhibitor subunit 11 [Source:VGNC Symbol;Acc:VGNC:82209]
ENSMMUG00000012124 ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]
ENSMMUG00000012129 tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]
ENSMMUG00000012192 erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]
ENSMMUG00000012396 zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]
ENSMMUG00000012462 proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]
ENSMMUG00000012463 DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]
ENSMMUG00000012473 proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]
ENSMMUG00000012474 ring finger protein 31 [Source:NCBI gene;Acc:715239]
ENSMMUG00000012480 REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]
ENSMMUG00000012481 importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]
ENSMMUG00000012513 lactamase beta 2 [Source:VGNC Symbol;Acc:VGNC:74072]
ENSMMUG00000012576 sorting nexin 6 [Source:NCBI gene;Acc:693626]
ENSMMUG00000012781 muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]
ENSMMUG00000013008 cleavage stimulation factor subunit 2 [Source:VGNC Symbol;Acc:VGNC:71536]
ENSMMUG00000013029 surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]
ENSMMUG00000013031 bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]
ENSMMUG00000013032 phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]
ENSMMUG00000013047 S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]
ENSMMUG00000013183 F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]
ENSMMUG00000013302 family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]
ENSMMUG00000013552 scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]
ENSMMUG00000013655 dynamin 1 like [Source:VGNC Symbol;Acc:VGNC:71956]
ENSMMUG00000013718 translocation associated membrane protein 2 [Source:VGNC Symbol;Acc:VGNC:83515]
ENSMMUG00000013848 fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]
ENSMMUG00000013894 beta-1,4-N-acetyl-galactosaminyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:70121]
ENSMMUG00000013907 ribosomal protein S27a [Source:NCBI gene;Acc:718909]
ENSMMUG00000013937 RAB41, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81544]
ENSMMUG00000013940 kinesin family member 4A [Source:NCBI gene;Acc:695574]
ENSMMUG00000013943 glycerophosphodiester phosphodiesterase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72787]
ENSMMUG00000014343 lipase family member J [Source:VGNC Symbol;Acc:VGNC:74333]
ENSMMUG00000014350 MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]
ENSMMUG00000014438 piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]
ENSMMUG00000014474 SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]
ENSMMUG00000014484 zinc finger protein 641 [Source:NCBI gene;Acc:708246]
ENSMMUG00000014702 TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]
ENSMMUG00000014762 myosin heavy chain 6 [Source:NCBI gene;Acc:713471]
ENSMMUG00000014809 heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]
ENSMMUG00000014810 short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]
ENSMMUG00000014997 spalt like transcription factor 2 [Source:NCBI gene;Acc:708367]
ENSMMUG00000015000 SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]
ENSMMUG00000015002 chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]
ENSMMUG00000015004 TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]
ENSMMUG00000015117 X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]
ENSMMUG00000015141 ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]
ENSMMUG00000015143 F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]
ENSMMUG00000015151 interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]

ENSMMUG00000015166 NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]
ENSMMUG00000015168 transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]
ENSMMUG00000015189 RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]
ENSMMUG00000015238 O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]
ENSMMUG00000015414 family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]
ENSMMUG00000015577 RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]
ENSMMUG00000015619 ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]
ENSMMUG00000015640 AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]
ENSMMUG00000015737 phosphatidylinositol glycan anchor biosynthesis class A [Source:VGNC Symbol;Acc:VGNC:75984]
ENSMMUG00000015738 vascular endothelial growth factor D [Source:VGNC Symbol;Acc:VGNC:79953]
ENSMMUG00000015962 AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]
ENSMMUG00000016135 neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]
ENSMMUG00000016357 polycystin 2 like 2, transient receptor potential cation channel [Source:VGNC Symbol;Acc:VGNC:76009]
ENSMMUG00000016610 CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]
ENSMMUG00000016631 glutamate receptor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73195]
ENSMMUG00000016896 solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]
ENSMMUG00000016983 acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]
ENSMMUG00000016993 PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]
ENSMMUG00000017076 tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]
ENSMMUG00000017145 cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]
ENSMMUG00000017173 heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]
ENSMMUG00000017176 DNA cross-link repair 1C [Source:NCBI gene;Acc:697493]
ENSMMUG00000017186 pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]
ENSMMUG00000017374 G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]
ENSMMUG00000017432 tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]
ENSMMUG00000017558 discoidin, CUB and LCCL domain containing 1 [Source:VGNC Symbol;Acc:VGNC:71689]
ENSMMUG00000018216 keratin, type II cuticular Hb5 [Source:NCBI gene;Acc:698320]
ENSMMUG00000018332 family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]
ENSMMUG00000018342 required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]
ENSMMUG00000018346 coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]
ENSMMUG00000018456 PBX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:75771]
ENSMMUG00000018461 notch receptor 4 [Source:VGNC Symbol;Acc:VGNC:75372]
ENSMMUG00000018634 methionine adenosyltransferase 1A [Source:VGNC Symbol;Acc:VGNC:74663]
ENSMMUG00000018640 Dmx like 1 [Source:VGNC Symbol;Acc:VGNC:71935]
ENSMMUG00000018679 glyceraldehyde-3-phosphate dehydrogenase [Source:NCBI gene;Acc:574353]
ENSMMUG00000018827 multiple EGF like domains 10 [Source:VGNC Symbol;Acc:VGNC:74617]
ENSMMUG00000018972 RNA polymerase III subunit G [Source:VGNC Symbol;Acc:VGNC:84480]
ENSMMUG00000018974 LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]
ENSMMUG00000018976 adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]
ENSMMUG00000019045 estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]
ENSMMUG00000019250 solute carrier family 25 member 27 [Source:VGNC Symbol;Acc:VGNC:77543]
ENSMMUG00000019252 tudor domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79319]
ENSMMUG00000019254 phospholipase A2 group VII [Source:VGNC Symbol;Acc:VGNC:76158]
ENSMMUG00000019371 major histocompatibility complex, class II, DP alpha [Source:NCBI gene;Acc:717992]
ENSMMUG00000019713 thyroid stimulating hormone receptor [Source:VGNC Symbol;Acc:VGNC:78662]
ENSMMUG00000019836 myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]
ENSMMUG00000019838 phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]
ENSMMUG00000020036 Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]
ENSMMUG00000020202 melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]
ENSMMUG00000020289 CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]
ENSMMUG00000020348 BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]

ENSMMUG00000020370 SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]
ENSMMUG00000020533 chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]
ENSMMUG00000020812 A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]
ENSMMUG00000021114 G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]
ENSMMUG00000021145 family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]
ENSMMUG00000021168 unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]
ENSMMUG00000021171 apolipoprotein B mRNA editing enzyme catalytic subunit 2 [Source:VGNC Symbol;Acc:VGNC:69986]
ENSMMUG00000021173 nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]
ENSMMUG00000021308 chromosome 9 C10orf71 homolog [Source:NCBI gene;Acc:710332]
ENSMMUG00000021315 molybdenum cofactor synthesis 1 [Source:NCBI gene;Acc:719625]
ENSMMUG00000021327 phosphatidylinositol glycan anchor biosynthesis class H [Source:VGNC Symbol;Acc:VGNC:75987]
ENSMMUG00000021377 SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]
ENSMMUG00000021393 calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]
ENSMMUG00000021534 solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]
ENSMMUG00000021552 RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]
ENSMMUG00000021788 immunoglobulin superfamily DCC subclass member 4 [Source:VGNC Symbol;Acc:VGNC:73388]
ENSMMUG00000021878 timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]
ENSMMUG00000022044 scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]
ENSMMUG00000022056 DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]
ENSMMUG00000022124 stonin 2 [Source:VGNC Symbol;Acc:VGNC:78249]
ENSMMUG00000022185 odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]
ENSMMUG00000022293 FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]
ENSMMUG00000022676 ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]
ENSMMUG00000022680 alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]
ENSMMUG00000022983 adhesion G protein-coupled receptor F1 [Source:VGNC Symbol;Acc:VGNC:81007]
ENSMMUG00000023012 vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]
ENSMMUG00000023226 RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]
ENSMMUG00000023248 serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]
ENSMMUG00000023249 aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]
ENSMMUG00000023265 A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]
ENSMMUG00000023488 lysine acetyltransferase 6B [Source:VGNC Symbol;Acc:VGNC:73846]
ENSMMUG00000023558 exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]
ENSMMUG00000023679 tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]
ENSMMUG00000023791 SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]
ENSMMUG00000024448
ENSMMUG00000024966 U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]
ENSMMUG00000025616
ENSMMUG00000028701
ENSMMUG00000029197 YY1 transcription factor [Source:NCBI gene;Acc:717370]
ENSMMUG00000029475 zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]
ENSMMUG00000032427 neuroligin 3 [Source:NCBI gene;Acc:574216]
ENSMMUG00000032892 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000033001 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000033490 mml-mir-625 [Source:miRBase;Acc:MI0007874]
ENSMMUG00000037625
ENSMMUG00000037675 testis expressed 52 [Source:NCBI gene;Acc:107000723]
ENSMMUG00000037806 chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]
ENSMMUG00000038051 uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]
ENSMMUG00000038070 T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]
ENSMMUG00000038560 eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]
ENSMMUG00000038661

ENSMMUG00000039515 kinesin family member 13B [Source:NCBI gene;Acc:100429368]
ENSMMUG00000039829
ENSMMUG00000040154 T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]
ENSMMUG00000040771
ENSMMUG00000042154 ankyrin repeat domain 66 [Source:VGNC Symbol;Acc:VGNC:81024]
ENSMMUG00000042416
ENSMMUG00000043161 endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]
ENSMMUG00000043411 zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]
ENSMMUG00000044047 killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]
ENSMMUG00000044214
ENSMMUG00000044473
ENSMMUG00000044859
ENSMMUG00000044958 adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]
ENSMMUG00000045446
ENSMMUG00000045680 iron responsive element binding protein 2 [Source:VGNC Symbol;Acc:VGNC:84360]
ENSMMUG00000046218 X antigen family member 5 [Source:NCBI gene;Acc:114669729]
ENSMMUG00000046464 coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]
ENSMMUG00000046520 small integral membrane protein 13 [Source:NCBI gene;Acc:703387]
ENSMMUG00000046765
ENSMMUG00000047127
ENSMMUG00000047342 T cell receptor alpha variable 12-2 [Source:HGNC Symbol;Acc:HGNC:12106]
ENSMMUG00000047741 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049351 MAGE family member E1 [Source:NCBI gene;Acc:705379]
ENSMMUG00000049437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049563
ENSMMUG00000049749
ENSMMUG00000050174
ENSMMUG00000050297
ENSMMUG00000050503
ENSMMUG00000050534
ENSMMUG00000050862
ENSMMUG00000050975
ENSMMUG00000051088
ENSMMUG00000051271
ENSMMUG00000051277
ENSMMUG00000051446
ENSMMUG00000051522 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051552
ENSMMUG00000051670
ENSMMUG00000051999
ENSMMUG00000052442
ENSMMUG00000052518 SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]
ENSMMUG00000052535
ENSMMUG00000052651 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052791
ENSMMUG00000052817 Sp7 transcription factor [Source:NCBI gene;Acc:702575]
ENSMMUG00000053250
ENSMMUG00000053384
ENSMMUG00000053760
ENSMMUG00000053789
ENSMMUG00000053794

ENSMMUG00000054112
ENSMMUG00000054116 T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]
ENSMMUG00000054302 antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]
ENSMMUG00000054315
ENSMMUG00000054447 T-box transcription factor 22 [Source:NCBI gene;Acc:708338]
ENSMMUG00000054532
ENSMMUG00000054689
ENSMMUG00000054713
ENSMMUG00000054817 immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]
ENSMMUG00000054825
ENSMMUG00000055117
ENSMMUG00000055207
ENSMMUG00000055229
ENSMMUG00000055271
ENSMMUG00000055272 putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]
ENSMMUG00000055392
ENSMMUG00000055447 MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]
ENSMMUG00000055477
ENSMMUG00000055610 homeobox C4 [Source:NCBI gene;Acc:100430434]
ENSMMUG00000056045
ENSMMUG00000056303
ENSMMUG00000056544
ENSMMUG00000056737
ENSMMUG00000056910
ENSMMUG00000057021 CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]
ENSMMUG00000057407 dorsal root ganglia homeobox [Source:NCBI gene;Acc:719355]
ENSMMUG00000057531 mitochondrial ribosomal protein S11 [Source:NCBI gene;Acc:697743]
ENSMMUG00000057544
ENSMMUG00000057697
ENSMMUG00000057859
ENSMMUG00000058151 chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]
ENSMMUG00000058240
ENSMMUG00000058450
ENSMMUG00000058580 tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]
ENSMMUG00000058603
ENSMMUG00000058933
ENSMMUG00000058942
ENSMMUG00000059038 5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]
ENSMMUG00000059080
ENSMMUG00000059145
ENSMMUG00000059153
ENSMMUG00000059241
ENSMMUG00000059327 NUS1 dehydrololichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]
ENSMMUG00000059525
ENSMMUG00000059575
ENSMMUG00000059617
ENSMMUG00000059663
ENSMMUG00000059794
ENSMMUG00000059922 family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]
ENSMMUG00000060062
ENSMMUG00000060503 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000060524
ENSMMUG00000060527
ENSMMUG00000060765
ENSMMUG00000060822
ENSMMUG00000060995
ENSMMUG00000061068
ENSMMUG00000061117
ENSMMUG00000061268 PLAG1 zinc finger [Source:NCBI gene;Acc:696149]
ENSMMUG00000061278
ENSMMUG00000061295 PDZ domain containing 11 [Source:NCBI gene;Acc:695458]
ENSMMUG00000061590
ENSMMUG00000061687
ENSMMUG00000061761 interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]
ENSMMUG00000061892
ENSMMUG00000062264
ENSMMUG00000062339 endogenous retrovirus group K member 25 Env polyprotein-like [Source:NCBI gene;Acc:114677579]
ENSMMUG00000062443
ENSMMUG00000062538 adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]
ENSMMUG00000062638 methyltransferase like 3 [Source:NCBI gene;Acc:706852]
ENSMMUG00000062642
ENSMMUG00000062676
ENSMMUG00000062861
ENSMMUG00000062974
ENSMMUG00000063177 StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]
ENSMMUG00000063267 aldo-keto reductase family 1 member C15 [Source:NCBI gene;Acc:722496]
ENSMMUG00000063268
ENSMMUG00000063345
ENSMMUG00000063396
ENSMMUG00000063659
ENSMMUG00000063703
ENSMMUG00000064075 ring finger protein 41 [Source:NCBI gene;Acc:711969]
ENSMMUG00000064249
ENSMMUG00000064448
ENSMMUG00000064507 beta-1,3-galactosyltransferase 4 [Source:NCBI gene;Acc:718178]
ENSMMUG00000064804
ENSMMUG00000064980
ENSMMUG00000065018 transmembrane protein 35A [Source:NCBI gene;Acc:702205]
ENSMMUG00000065031
ENSMMUG00000000117 HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]
ENSMMUG00000000227 myosin heavy chain 7B [Source:VGNC Symbol;Acc:VGNC:74965]
ENSMMUG00000000229 transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]
ENSMMUG00000000262 beta-ureidopropionase 1 [Source:VGNC Symbol;Acc:VGNC:79029]
ENSMMUG00000000288 C-C motif chemokine ligand 2 [Source:VGNC Symbol;Acc:VGNC:70698]
ENSMMUG00000000350 basic, immunoglobulin-like variable motif containing [Source:NCBI gene;Acc:100426213]
ENSMMUG00000000353 putative methyltransferase-like protein 21E pseudogene [Source:NCBI gene;Acc:707949]
ENSMMUG00000000364 translocase of outer mitochondrial membrane 22 [Source:NCBI gene;Acc:701286]
ENSMMUG00000000434 cyclin dependent kinase 2 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:70944]
ENSMMUG00000000496 zinc finger and BTB domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79047]
ENSMMUG00000000618 gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]
ENSMMUG00000000620 dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]
ENSMMUG00000000690 catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]

ENSMMUG0000000797 exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]
ENSMMUG0000000807 tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [Source:VGNC Symbol;Acc:VGNC:79500]
ENSMMUG0000000974 mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]
ENSMMUG0000001065 olfactory receptor, family 51, subfamily A, member 4 [Source:NCBI gene;Acc:100425539]
ENSMMUG0000001172 spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]
ENSMMUG0000001294 FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]
ENSMMUG0000001800 cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]
ENSMMUG0000002090 ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]
ENSMMUG0000002093 testis expressed 261 [Source:NCBI gene;Acc:703863]
ENSMMUG0000002103 delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]
ENSMMUG0000002109 proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]
ENSMMUG0000002113 NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]
ENSMMUG0000002176 ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]
ENSMMUG0000002182 phosphatidylserine decarboxylase [Source:VGNC Symbol;Acc:VGNC:76005]
ENSMMUG0000002183 oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]
ENSMMUG0000002231 transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]
ENSMMUG0000002243 pleckstrin homology and RhoGEF domain containing G7 [Source:VGNC Symbol;Acc:VGNC:76149]
ENSMMUG0000002244 early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]
ENSMMUG0000002321 solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]
ENSMMUG0000002370 integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]
ENSMMUG0000002514 methyltransferase like 25 [Source:VGNC Symbol;Acc:VGNC:74591]
ENSMMUG0000002517 protein tyrosine phosphatase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76567]
ENSMMUG0000002520 solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]
ENSMMUG0000002533 progesterone immunomodulatory binding factor 1 [Source:NCBI gene;Acc:694190]
ENSMMUG0000002549 trehalase [Source:NCBI gene;Acc:706449]
ENSMMUG0000002589 sulfotransferase 1C3-like [Source:NCBI gene;Acc:114671897]
ENSMMUG0000002657 olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]
ENSMMUG0000002678 integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]
ENSMMUG0000002809 unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]
ENSMMUG0000003260
ENSMMUG0000003394 cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]
ENSMMUG0000003631 cytoskeleton associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71368]
ENSMMUG0000003949 cholinergic receptor nicotinic alpha 10 subunit [Source:NCBI gene;Acc:718133]
ENSMMUG0000003958 stromal interaction molecule 1 [Source:VGNC Symbol;Acc:VGNC:77911]
ENSMMUG0000003973 autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]
ENSMMUG0000004153 ATM serine/threonine kinase [Source:VGNC Symbol;Acc:VGNC:70173]
ENSMMUG0000004157 nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]
ENSMMUG0000004205 phospholipase B domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76122]
ENSMMUG0000004208 serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]
ENSMMUG0000004237 TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]
ENSMMUG0000004329 solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]
ENSMMUG0000004412 arginine and serine rich coiled-coil 2 [Source:VGNC Symbol;Acc:VGNC:77139]
ENSMMUG0000004493 propionyl-CoA carboxylase subunit alpha [Source:VGNC Symbol;Acc:VGNC:75773]
ENSMMUG0000004560 crystallin lambda 1 [Source:VGNC Symbol;Acc:VGNC:71433]
ENSMMUG0000004675 smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]
ENSMMUG0000004709 proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]
ENSMMUG0000004710 protein interacting with cyclin A1 [Source:VGNC Symbol;Acc:VGNC:76336]
ENSMMUG0000004821 membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]
ENSMMUG0000005040 coiled-coil domain containing 183 [Source:NCBI gene;Acc:709019]
ENSMMUG0000005042 RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]
ENSMMUG0000005048 MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]

ENSMMUG0000005204 VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]
ENSMMUG0000005301 ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]
ENSMMUG0000005610 protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]
ENSMMUG0000005851 B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]
ENSMMUG0000005895 nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]
ENSMMUG0000006163 malate dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:74690]
ENSMMUG0000006215 serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]
ENSMMUG0000006268 junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]
ENSMMUG0000006446 transmembrane protein 177 [Source:VGNC Symbol;Acc:VGNC:79686]
ENSMMUG0000006493 ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]
ENSMMUG0000006668 tubulin alpha-3 chain [Source:NCBI gene;Acc:707215]
ENSMMUG0000006731 CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]
ENSMMUG0000006755 tubulin tyrosine ligase like 4 [Source:VGNC Symbol;Acc:VGNC:79758]
ENSMMUG0000006842 doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]
ENSMMUG0000006950 cornichon family AMPA receptor auxiliary protein 2 [Source:VGNC Symbol;Acc:VGNC:71366]
ENSMMUG0000007001 protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]
ENSMMUG0000007003 polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]
ENSMMUG0000007215 X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]
ENSMMUG0000007293 RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]
ENSMMUG0000007310 solute carrier family 25 member 12 [Source:VGNC Symbol;Acc:VGNC:77430]
ENSMMUG0000007313 histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]
ENSMMUG0000007325 Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]
ENSMMUG0000007326 ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]
ENSMMUG0000007330 nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]
ENSMMUG0000007421 zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]
ENSMMUG0000007620 transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]
ENSMMUG0000007628 cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]
ENSMMUG0000007692 apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]
ENSMMUG0000007708 N-alpha-acetyltransferase 20, NatB catalytic subunit [Source:VGNC Symbol;Acc:VGNC:84533]
ENSMMUG0000007709 crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]
ENSMMUG0000007742 potassium voltage-gated channel subfamily Q member 1 [Source:VGNC Symbol;Acc:VGNC:82168]
ENSMMUG0000007751 solute carrier family 22 member 18 [Source:NCBI gene;Acc:721230]
ENSMMUG0000007868 AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]
ENSMMUG0000007920 myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]
ENSMMUG0000008113 pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]
ENSMMUG0000008136 G2 and S-phase expressed 1 [Source:VGNC Symbol;Acc:VGNC:73162]
ENSMMUG0000008396 methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]
ENSMMUG0000008540 ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]
ENSMMUG0000008639 tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]
ENSMMUG0000008643 general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]
ENSMMUG0000009038 titin [Source:NCBI gene;Acc:703527]
ENSMMUG0000009303 coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]
ENSMMUG0000009310 myelin transcription factor 1 like [Source:NCBI gene;Acc:706914]
ENSMMUG0000009394 sestrin 3 [Source:VGNC Symbol;Acc:VGNC:77291]
ENSMMUG0000009493 family with sequence similarity 120A [Source:NCBI gene;Acc:717459]
ENSMMUG0000009519 WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]
ENSMMUG0000009524 adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]
ENSMMUG0000009615 IMP U3 small nucleolar ribonucleoprotein 4 [Source:VGNC Symbol;Acc:VGNC:73689]
ENSMMUG0000009695 BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]
ENSMMUG0000009775 caveolae associated protein 4 [Source:NCBI gene;Acc:714379]
ENSMMUG0000009782 C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]

ENSMMUG0000009831 TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]
ENSMMUG0000009961 niban apoptosis regulator 2 [Source:VGNC Symbol;Acc:VGNC:75254]
ENSMMUG0000009965 chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]
ENSMMUG0000009984 prodynorphin [Source:VGNC Symbol;Acc:VGNC:75937]
ENSMMUG00000010114 Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]
ENSMMUG00000010320 ATPase H+ transporting V1 subunit C2 [Source:VGNC Symbol;Acc:VGNC:70091]
ENSMMUG00000010405 family with sequence similarity 171 member B [Source:VGNC Symbol;Acc:VGNC:72404]
ENSMMUG00000010453 folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]
ENSMMUG00000010508 carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]
ENSMMUG00000010543 PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]
ENSMMUG00000010627 apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]
ENSMMUG00000010688 olfactory receptor, family 2, subfamily AT, member 4 [Source:NCBI gene;Acc:694711]
ENSMMUG00000010820 chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]
ENSMMUG00000010959 kelch like family member 9 [Source:VGNC Symbol;Acc:VGNC:74080]
ENSMMUG00000011015 matrix metalloproteinase 27 [Source:VGNC Symbol;Acc:VGNC:74749]
ENSMMUG00000011116 NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]
ENSMMUG00000011183 olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]
ENSMMUG00000011401 amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]
ENSMMUG00000011646 TATA-box binding protein associated factor, RNA polymerase I subunit D [Source:NCBI gene;Acc:696602]
ENSMMUG00000011712 olfactory receptor 5B21 [Source:NCBI gene;Acc:702145]
ENSMMUG00000011986 chibby family member 2 [Source:VGNC Symbol;Acc:VGNC:78029]
ENSMMUG00000012029 sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]
ENSMMUG00000012056 structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]
ENSMMUG00000012058 GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]
ENSMMUG00000012091 thioredoxin reductase 1 [Source:VGNC Symbol;Acc:VGNC:78679]
ENSMMUG00000012101 synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]
ENSMMUG00000012167 solute carrier family 2 member 8 [Source:VGNC Symbol;Acc:VGNC:77470]
ENSMMUG00000012224 family with sequence similarity 126 member B [Source:VGNC Symbol;Acc:VGNC:72393]
ENSMMUG00000012250 lactase [Source:VGNC Symbol;Acc:VGNC:74244]
ENSMMUG00000012290 GLIPR1 like 2 [Source:VGNC Symbol;Acc:VGNC:81413]
ENSMMUG00000012307 periostin [Source:VGNC Symbol;Acc:VGNC:76039]
ENSMMUG00000012310 CASP8 and FADD like apoptosis regulator [Source:VGNC Symbol;Acc:VGNC:71019]
ENSMMUG00000012332 UBA domain containing 2 [Source:NCBI gene;Acc:703484]
ENSMMUG00000012338 G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]
ENSMMUG00000012449 synaptotagmin like 2 [Source:VGNC Symbol;Acc:VGNC:78123]
ENSMMUG00000012467 family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]
ENSMMUG00000012601 RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]
ENSMMUG00000012636 potassium channel tetramerization domain containing 4 [Source:VGNC Symbol;Acc:VGNC:73892]
ENSMMUG00000012778 rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]
ENSMMUG00000012953 stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]
ENSMMUG00000013035 teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]
ENSMMUG00000013055 malic enzyme 3 [Source:VGNC Symbol;Acc:VGNC:74695]
ENSMMUG00000013233 collagen type IV alpha 4 chain [Source:VGNC Symbol;Acc:VGNC:71299]
ENSMMUG00000013235 collagen type IV alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:81375]
ENSMMUG00000013419 guanylate cyclase 1 soluble subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:82154]
ENSMMUG00000013501 CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]
ENSMMUG00000013503 mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]
ENSMMUG00000013707 heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]
ENSMMUG00000013799 ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]
ENSMMUG00000013888 NOP56 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75181]
ENSMMUG00000014027 nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]

ENSMMUG00000014049 collagen type VI alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:71303]
ENSMMUG00000014140 peroxisomal biogenesis factor 26 [Source:NCBI gene;Acc:710470]
ENSMMUG00000014531 transmembrane protein 109 [Source:VGNC Symbol;Acc:VGNC:79740]
ENSMMUG00000014535 solute carrier family 15 member 3 [Source:VGNC Symbol;Acc:VGNC:77504]
ENSMMUG00000014824 SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]
ENSMMUG00000015167 DIS3 like 3'-5' exoribonuclease 2 [Source:VGNC Symbol;Acc:VGNC:71793]
ENSMMUG00000015203 golgi reassembly stacking protein 2 [Source:VGNC Symbol;Acc:VGNC:72957]
ENSMMUG00000015279 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]
ENSMMUG00000015522 GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]
ENSMMUG00000015544 PWP1 homolog, endonuclein [Source:NCBI gene;Acc:705262]
ENSMMUG00000015550 PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]
ENSMMUG00000015970 coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]
ENSMMUG00000015987 Ras and Rab interactor 1 [Source:VGNC Symbol;Acc:VGNC:76769]
ENSMMUG00000016052 seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]
ENSMMUG00000016077 isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]
ENSMMUG00000016262 tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]
ENSMMUG00000016313 RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]
ENSMMUG00000016314 family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]
ENSMMUG00000016316 testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]
ENSMMUG00000016475 M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]
ENSMMUG00000016543 CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]
ENSMMUG00000016723 zinc finger protein 287 [Source:NCBI gene;Acc:695524]
ENSMMUG00000016791 doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]
ENSMMUG00000016845 zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]
ENSMMUG00000016871 alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]
ENSMMUG00000016927 solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]
ENSMMUG00000017207 dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]
ENSMMUG00000017210 sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]
ENSMMUG00000017230 V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]
ENSMMUG00000017355 remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]
ENSMMUG00000017486 minichromosome maintenance complex component 6 [Source:VGNC Symbol;Acc:VGNC:74685]
ENSMMUG00000017524 phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]
ENSMMUG00000017593 CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]
ENSMMUG00000017628 pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]
ENSMMUG00000017680 chibby family member 1, beta catenin antagonist [Source:NCBI gene;Acc:100429409]
ENSMMUG00000017886 F-box protein 10 [Source:NCBI gene;Acc:718443]
ENSMMUG00000017892 RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]
ENSMMUG00000017931 gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]
ENSMMUG00000018165 syndecan binding protein 2 [Source:VGNC Symbol;Acc:VGNC:77017]
ENSMMUG00000018356 flagellum associated containing coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:72508]
ENSMMUG00000018358 zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]
ENSMMUG00000018474 signal regulatory protein alpha [Source:NCBI gene;Acc:717811]
ENSMMUG00000018657 dedicator of cytokinesis 9 [Source:VGNC Symbol;Acc:VGNC:71835]
ENSMMUG00000018898 nuclear receptor subfamily 2 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75508]
ENSMMUG00000019145 TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]
ENSMMUG00000019146 DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]
ENSMMUG00000019148 vitronectin [Source:NCBI gene;Acc:708499]
ENSMMUG00000019462 integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]
ENSMMUG00000019639 paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]
ENSMMUG00000019672 autophagy related 13 [Source:VGNC Symbol;Acc:VGNC:70148]
ENSMMUG00000019831 neurobeachin [Source:NCBI gene;Acc:714386]

ENSMMUG00000019850 arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]
ENSMMUG00000020004 Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]
ENSMMUG00000020148 BAG cochaperone 1 [Source:NCBI gene;Acc:702101]
ENSMMUG00000020211 cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]
ENSMMUG00000020690 erythrocyte membrane protein band 4.1 like 1 [Source:VGNC Symbol;Acc:VGNC:72231]
ENSMMUG00000020706 ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]
ENSMMUG00000020926 syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]
ENSMMUG00000020928 nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]
ENSMMUG00000020993 cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]
ENSMMUG00000021083 Josephin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73920]
ENSMMUG00000021091 COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]
ENSMMUG00000021097 sushi domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78207]
ENSMMUG00000021137 thioredoxin related transmembrane protein 4 [Source:VGNC Symbol;Acc:VGNC:79484]
ENSMMUG00000021280 leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]
ENSMMUG00000021282 late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]
ENSMMUG00000021291 thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]
ENSMMUG00000021331 EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]
ENSMMUG00000021344 interleukin 33 [Source:VGNC Symbol;Acc:VGNC:73606]
ENSMMUG00000021370 kringle containing transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:74066]
ENSMMUG00000021372 EMI domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72063]
ENSMMUG00000021373 rhomboid domain containing 3 [Source:NCBI gene;Acc:714479]
ENSMMUG00000021374 EWS RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72446]
ENSMMUG00000021670 solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]
ENSMMUG00000021691 spastin [Source:VGNC Symbol;Acc:VGNC:77857]
ENSMMUG00000021760 zinc finger protein 79 [Source:NCBI gene;Acc:700961]
ENSMMUG00000021775 beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]
ENSMMUG00000021808 cryptochrome circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:71499]
ENSMMUG00000021914 spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]
ENSMMUG00000022202 basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]
ENSMMUG00000022548 phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:VGNC Symbol;Acc:VGNC:75992]
ENSMMUG00000022570 nuclear transcription factor Y subunit beta [Source:NCBI gene;Acc:700451]
ENSMMUG00000022589 prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]
ENSMMUG00000022601 cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]
ENSMMUG00000022602 methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]
ENSMMUG00000022879 EARP complex and GARP complex interacting protein 1 [Source:NCBI gene;Acc:707650]
ENSMMUG00000023076 diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]
ENSMMUG00000023083 A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]
ENSMMUG00000023119 lin-7 homolog C, crumbs cell polarity complex component [Source:VGNC Symbol;Acc:VGNC:74070]
ENSMMUG00000023443 SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]
ENSMMUG00000023446 tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]
ENSMMUG00000023469 heat shock protein 90 beta family member 1 [Source:NCBI gene;Acc:699568]
ENSMMUG00000023621 DEAD-box helicase 27 [Source:NCBI gene;Acc:703852]
ENSMMUG00000023752 SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]
ENSMMUG00000023810 methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]
ENSMMUG00000023811 boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]
ENSMMUG00000026876 mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]
ENSMMUG00000030381 arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]
ENSMMUG00000030401 gem nuclear organelle associated protein 4 [Source:VGNC Symbol;Acc:VGNC:72723]
ENSMMUG00000031121 solute carrier family 25 member 18 [Source:VGNC Symbol;Acc:VGNC:77434]
ENSMMUG00000031202 RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]
ENSMMUG00000031224 casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]

ENSMMUG00000031296 caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]
ENSMMUG00000031398 coiled-coil domain containing 173 [Source:NCBI gene;Acc:709886]
ENSMMUG00000031736
ENSMMUG00000031965 aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]
ENSMMUG00000033102 mml-mir-181b-2 [Source:miRBase;Acc:MI0007646]
ENSMMUG00000035632 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000038410
ENSMMUG00000038569 5',3'-nucleotidase, mitochondrial [Source:NCBI gene;Acc:698591]
ENSMMUG00000038587 prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]
ENSMMUG00000040046 lithostathine-1-alpha [Source:NCBI gene;Acc:711810]
ENSMMUG00000040854 aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]
ENSMMUG00000041301 TNF superfamily member 8 [Source:NCBI gene;Acc:702944]
ENSMMUG00000042668 cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]
ENSMMUG00000043504
ENSMMUG00000043682 mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]
ENSMMUG00000044537 DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]
ENSMMUG00000044782
ENSMMUG00000045105 phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]
ENSMMUG00000046282
ENSMMUG00000046655 pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]
ENSMMUG00000046665 glutamyl-tRNA amidotransferase subunit C [Source:NCBI gene;Acc:702258]
ENSMMUG00000048322 eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]
ENSMMUG00000048710 HIC ZBTB transcriptional repressor 1 [Source:NCBI gene;Acc:721284]
ENSMMUG00000049117 CLLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]
ENSMMUG00000049539
ENSMMUG00000049690
ENSMMUG00000049788
ENSMMUG00000050245
ENSMMUG00000050630
ENSMMUG00000050676 leucine rich repeat containing 75A [Source:NCBI gene;Acc:699649]
ENSMMUG00000050923
ENSMMUG00000051112 p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]
ENSMMUG00000051190 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051202
ENSMMUG00000051286
ENSMMUG00000051366
ENSMMUG00000051482
ENSMMUG00000051743 TLC domain containing 1 [Source:NCBI gene;Acc:710391]
ENSMMUG00000051936
ENSMMUG00000052070 caudal type homeobox 2 [Source:NCBI gene;Acc:711094]
ENSMMUG00000052229
ENSMMUG00000052326 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]
ENSMMUG00000052420 transmembrane protein 132A [Source:NCBI gene;Acc:695291]
ENSMMUG00000052454 prostaglandin D2 receptor 2 [Source:NCBI gene;Acc:695853]
ENSMMUG00000052457 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052460
ENSMMUG00000052496
ENSMMUG00000052526 RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]
ENSMMUG00000052642 protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]
ENSMMUG00000052676
ENSMMUG00000052786

ENSMMUG00000052815
ENSMMUG00000053482 protocadherin 20 [Source:NCBI gene;Acc:696607]
ENSMMUG00000053565
ENSMMUG00000053577
ENSMMUG00000053648 actin binding transcription modulator [Source:NCBI gene;Acc:710486]
ENSMMUG00000053721
ENSMMUG00000053778
ENSMMUG00000054176 methyltransferase like 8 [Source:NCBI gene;Acc:695361]
ENSMMUG00000054210 C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]
ENSMMUG00000054462
ENSMMUG00000054625
ENSMMUG00000054675
ENSMMUG00000054711
ENSMMUG00000054737
ENSMMUG00000054953 leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]
ENSMMUG00000055161
ENSMMUG00000055344 TLC domain containing 3A [Source:NCBI gene;Acc:699707]
ENSMMUG00000055400 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055529 sulfotransferase family 1C member 4 [Source:NCBI gene;Acc:693903]
ENSMMUG00000055560
ENSMMUG00000055575 olfactory marker protein [Source:HGNC Symbol;Acc:HGNC:8136]
ENSMMUG00000055845 ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]
ENSMMUG00000056054 zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]
ENSMMUG00000056306
ENSMMUG00000056387 transcription factor 15 [Source:NCBI gene;Acc:716916]
ENSMMUG00000056824
ENSMMUG00000056962
ENSMMUG00000057073
ENSMMUG00000057228 SRY-box transcription factor 15 [Source:NCBI gene;Acc:106993880]
ENSMMUG00000057627
ENSMMUG00000057651 frizzled class receptor 5 [Source:NCBI gene;Acc:710796]
ENSMMUG00000057852
ENSMMUG00000057860 olfactory receptor 51E1 [Source:NCBI gene;Acc:717598]
ENSMMUG00000057986 transmembrane protein 17 [Source:NCBI gene;Acc:694384]
ENSMMUG00000058170 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000058233 C-C motif chemokine 3-like [Source:NCBI gene;Acc:100426537]
ENSMMUG00000058336
ENSMMUG00000058583 RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]
ENSMMUG00000058586
ENSMMUG00000058836 transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]
ENSMMUG00000059068
ENSMMUG00000059115
ENSMMUG00000059406 RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]
ENSMMUG00000059518
ENSMMUG00000059848 olfactory receptor 5B2 [Source:NCBI gene;Acc:100429465]
ENSMMUG00000060101
ENSMMUG00000060346
ENSMMUG00000060359
ENSMMUG00000060547 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060579
ENSMMUG00000060781 G protein-coupled receptor 18 [Source:NCBI gene;Acc:698714]

ENSMMUG00000060932 zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]
ENSMMUG00000060971
ENSMMUG00000061118
ENSMMUG00000061260 Spi-C transcription factor [Source:NCBI gene;Acc:695809]
ENSMMUG00000061305
ENSMMUG00000061344
ENSMMUG00000061433
ENSMMUG00000061594
ENSMMUG00000061688 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061779
ENSMMUG00000061815
ENSMMUG00000061834
ENSMMUG00000062615
ENSMMUG00000062697 olfactory receptor 5B12 [Source:NCBI gene;Acc:106993236]
ENSMMUG00000062793
ENSMMUG00000062818 regenerating islet-derived protein 3-alpha [Source:NCBI gene;Acc:716890]
ENSMMUG00000062882
ENSMMUG00000063262
ENSMMUG00000063312
ENSMMUG00000063463
ENSMMUG00000063482
ENSMMUG00000063609 cytochrome c oxidase subunit 6A1, mitochondrial [Source:NCBI gene;Acc:696956]
ENSMMUG00000063655 sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]
ENSMMUG00000063747
ENSMMUG00000063884
ENSMMUG00000064013
ENSMMUG00000064615 pancreatic and duodenal homeobox 1 [Source:NCBI gene;Acc:710936]
ENSMMUG00000064749
ENSMMUG00000065008
ENSMMUG00000065060
ENSMMUG00000065099
ENSMMUG00000065232
ENSMMUG00000065273
ENSMMUG00000065301
ENSMMUG00000065344 homeobox D1 [Source:NCBI gene;Acc:701064]
ENSMMUG00000000717 CD3e molecule associated protein [Source:NCBI gene;Acc:714440]
ENSMMUG00000000718 ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]
ENSMMUG00000000981 T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]
ENSMMUG00000000982 protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]
ENSMMUG00000000983 aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]
ENSMMUG00000001121 zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]
ENSMMUG00000001219 mitochondrial ribosomal protein L4 [Source:VGNC Symbol;Acc:VGNC:74750]
ENSMMUG00000001245 zinc finger protein 532 [Source:NCBI gene;Acc:701146]
ENSMMUG00000001404 neuronal differentiation 2 [Source:VGNC Symbol;Acc:VGNC:75321]
ENSMMUG00000001940 NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]
ENSMMUG00000001942 mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]
ENSMMUG00000002166 tousled like kinase 2 [Source:VGNC Symbol;Acc:VGNC:78368]
ENSMMUG00000002269 serine carboxypeptidase 1 [Source:VGNC Symbol;Acc:VGNC:82232]
ENSMMUG00000002472 CLPTM1 regulator of GABA type A receptor forward trafficking [Source:VGNC Symbol;Acc:VGNC:71265]
ENSMMUG00000002709 G protein-coupled receptor class C group 5 member B [Source:VGNC Symbol;Acc:VGNC:72934]
ENSMMUG00000002742 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]

ENSMMUG0000002912 TLE family member 6, subcortical maternal complex member [Source:VGNC Symbol;Acc:VGNC:79879]
ENSMMUG0000002961 G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]
ENSMMUG0000003029 protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]
ENSMMUG0000003053 APC regulator of WNT signaling pathway 2 [Source:VGNC Symbol;Acc:VGNC:69888]
ENSMMUG0000003288 glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]
ENSMMUG0000003468 growth arrest and DNA damage inducible beta [Source:VGNC Symbol;Acc:VGNC:72864]
ENSMMUG0000003621 AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]
ENSMMUG0000003688 zinc finger protein 91 [Source:HGNC Symbol;Acc:HGNC:13166]
ENSMMUG0000003712 zinc finger protein 615 [Source:VGNC Symbol;Acc:VGNC:79454]
ENSMMUG0000004760 CDK5 regulatory subunit associated protein 3 [Source:VGNC Symbol;Acc:VGNC:71015]
ENSMMUG0000005028 phosphodiesterase 4C [Source:NCBI gene;Acc:720171]
ENSMMUG0000005727 protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]
ENSMMUG0000005751 adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]
ENSMMUG0000005754 lysyl-tRNA synthetase 1 [Source:NCBI gene;Acc:714516]
ENSMMUG0000006128 peptidase D [Source:VGNC Symbol;Acc:VGNC:82205]
ENSMMUG0000006509 CREB regulated transcription coactivator 1 [Source:VGNC Symbol;Acc:VGNC:71418]
ENSMMUG0000006857 epididymal sperm binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72046]
ENSMMUG0000006937 small nuclear ribonucleoprotein D2 polypeptide [Source:NCBI gene;Acc:715183]
ENSMMUG0000007398 potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]
ENSMMUG0000007485 zinc finger protein 555 [Source:VGNC Symbol;Acc:VGNC:79705]
ENSMMUG0000007816 SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]
ENSMMUG0000007875 F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]
ENSMMUG0000007923 phosphatidylinositol glycan anchor biosynthesis class W [Source:VGNC Symbol;Acc:VGNC:75850]
ENSMMUG0000008004 transmembrane immune signaling adaptor TYROBP [Source:NCBI gene;Acc:574207]
ENSMMUG0000008119 telomere maintenance 2 [Source:NCBI gene;Acc:701679]
ENSMMUG0000008459 pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]
ENSMMUG0000008942 carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]
ENSMMUG0000009669 cutaneous T cell lymphoma-associated antigen 1 [Source:NCBI gene;Acc:106994443]
ENSMMUG0000010944 GATA binding protein 6 [Source:VGNC Symbol;Acc:VGNC:72891]
ENSMMUG0000011319 potassium channel tetramerization domain containing 15 [Source:VGNC Symbol;Acc:VGNC:73894]
ENSMMUG0000011893 KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]
ENSMMUG0000011963 vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]
ENSMMUG0000012209 CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]
ENSMMUG0000013053 sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]
ENSMMUG0000013376 POU class 2 homeobox 2 [Source:NCBI gene;Acc:706835]
ENSMMUG0000014155 CLK4 associating serine/arginine rich protein [Source:VGNC Symbol;Acc:VGNC:71198]
ENSMMUG0000014213 calcium voltage-gated channel subunit alpha1 H [Source:VGNC Symbol;Acc:VGNC:70505]
ENSMMUG0000014685 pyruvate dehydrogenase kinase 2 [Source:VGNC Symbol;Acc:VGNC:75933]
ENSMMUG0000014687 sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]
ENSMMUG0000014727 NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]
ENSMMUG0000014735 carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]
ENSMMUG0000015608 tudor domain containing 12 [Source:VGNC Symbol;Acc:VGNC:82254]
ENSMMUG0000015702 divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]
ENSMMUG0000016354 IQ motif containing N [Source:VGNC Symbol;Acc:VGNC:73683]
ENSMMUG0000016526 solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]
ENSMMUG0000016665 NADH:ubiquinone oxidoreductase subunit A11 [Source:NCBI gene;Acc:697843]
ENSMMUG0000016695 CD320 molecule [Source:VGNC Symbol;Acc:VGNC:70763]
ENSMMUG0000016906 F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]
ENSMMUG0000017113 ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]
ENSMMUG0000017234 leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]
ENSMMUG0000017246 lipoxigenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]

ENSMMUG00000017379 myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]
ENSMMUG00000017615 zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]
ENSMMUG00000017922 prostaglandin I2 receptor [Source:VGNC Symbol;Acc:VGNC:76586]
ENSMMUG00000018031 solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]
ENSMMUG00000018777 regulation of nuclear pre-mRNA domain containing 1A [Source:VGNC Symbol;Acc:VGNC:77103]
ENSMMUG00000018785 elongator acetyltransferase complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72069]
ENSMMUG00000019566 hemoglobin subunit alpha 1 [Source:NCBI gene;Acc:701930]
ENSMMUG00000019756 NFkB inhibitor delta [Source:VGNC Symbol;Acc:VGNC:75179]
ENSMMUG00000019868 NKD inhibitor of WNT signaling pathway 1 [Source:VGNC Symbol;Acc:VGNC:75198]
ENSMMUG00000019892 myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]
ENSMMUG00000020061 protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]
ENSMMUG00000020175 mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]
ENSMMUG00000020540 NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]
ENSMMUG00000020592 Gse1 coiled-coil protein [Source:VGNC Symbol;Acc:VGNC:73254]
ENSMMUG00000020847 CKLF like MARVEL transmembrane domain containing 3 [Source:VGNC Symbol;Acc:VGNC:71215]
ENSMMUG00000020898 cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]
ENSMMUG00000021474 zinc finger protein 45 [Source:NCBI gene;Acc:712591]
ENSMMUG00000021932 Rho GTPase activating protein 27 [Source:VGNC Symbol;Acc:VGNC:69935]
ENSMMUG00000022120 transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]
ENSMMUG00000022121 CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]
ENSMMUG00000022123 tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]
ENSMMUG00000022163 solute carrier family 1 member 5 [Source:VGNC Symbol;Acc:VGNC:77413]
ENSMMUG00000022305 Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]
ENSMMUG00000022625 periaxin [Source:VGNC Symbol;Acc:VGNC:76248]
ENSMMUG00000022627 HLF transcription factor, PAR bZIP family member [Source:VGNC Symbol;Acc:VGNC:73478]
ENSMMUG00000022656 perilipin 4 [Source:NCBI gene;Acc:693610]
ENSMMUG00000022724
ENSMMUG00000022726 dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]
ENSMMUG00000022975 sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]
ENSMMUG00000023137 zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]
ENSMMUG00000023298 F-box protein 15 [Source:VGNC Symbol;Acc:VGNC:72504]
ENSMMUG00000027108 mml-mir-193b [Source:miRBase;Acc:MI0007656]
ENSMMUG00000028800 solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]
ENSMMUG00000028863 WIZ zinc finger [Source:VGNC Symbol;Acc:VGNC:79901]
ENSMMUG00000028925 HDGF like 2 [Source:NCBI gene;Acc:693476]
ENSMMUG00000029164 glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]
ENSMMUG00000029263 polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]
ENSMMUG00000029927 ADAM metallopeptidase domain 11 [Source:VGNC Symbol;Acc:VGNC:69466]
ENSMMUG00000033290 mml-mir-643 [Source:miRBase;Acc:MI0007886]
ENSMMUG00000038768 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000040273 zinc finger protein 257 [Source:NCBI gene;Acc:694388]
ENSMMUG00000040803 sarcalumenin [Source:NCBI gene;Acc:704655]
ENSMMUG00000041043 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000041450 zinc finger protein 432 [Source:NCBI gene;Acc:100424341]
ENSMMUG00000044729 transcription factor AP-4 [Source:NCBI gene;Acc:707513]
ENSMMUG00000045966 granzyme M [Source:NCBI gene;Acc:715031]
ENSMMUG00000047370 IgLON family member 5 [Source:NCBI gene;Acc:719890]
ENSMMUG00000048077 ataxin 1 like [Source:NCBI gene;Acc:709805]
ENSMMUG00000049366 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049484
ENSMMUG00000049523 ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]

ENSMMUG00000049948	
ENSMMUG00000049968	RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]
ENSMMUG00000049997	
ENSMMUG00000050177	
ENSMMUG00000050544	
ENSMMUG00000051115	
ENSMMUG00000051261	
ENSMMUG00000052977	putative protein FAM106C [Source:NCBI gene;Acc:106994084]
ENSMMUG00000053008	
ENSMMUG00000053231	
ENSMMUG00000053624	
ENSMMUG00000053889	olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]
ENSMMUG00000054064	
ENSMMUG00000054935	
ENSMMUG00000055885	napsin-A [Source:NCBI gene;Acc:719235]
ENSMMUG00000055889	
ENSMMUG00000056147	
ENSMMUG00000056165	
ENSMMUG00000056220	folliculin like 3 [Source:NCBI gene;Acc:721100]
ENSMMUG00000056602	
ENSMMUG00000057215	
ENSMMUG00000057475	
ENSMMUG00000058016	bMERB domain containing 1 [Source:NCBI gene;Acc:713757]
ENSMMUG00000058142	
ENSMMUG00000058242	zinc finger protein 160 [Source:NCBI gene;Acc:722722]
ENSMMUG00000059128	
ENSMMUG00000059400	
ENSMMUG00000060455	
ENSMMUG00000060536	
ENSMMUG00000060665	
ENSMMUG00000060713	epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]
ENSMMUG00000060966	
ENSMMUG00000061396	kallikrein related peptidase 6 [Source:NCBI gene;Acc:719776]
ENSMMUG00000062047	
ENSMMUG00000062413	CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]
ENSMMUG00000062667	leucine rich repeat and fibronectin type III domain containing 3 [Source:NCBI gene;Acc:711565]
ENSMMUG00000062704	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062791	
ENSMMUG00000062866	
ENSMMUG00000063586	zinc finger protein 536 [Source:NCBI gene;Acc:713142]
ENSMMUG00000064131	
ENSMMUG00000064563	
ENSMMUG00000064806	
ENSMMUG00000064975	zinc finger protein 221 [Source:NCBI gene;Acc:100423743]
ENSMMUG00000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]

Survivors – SD2 vs. Baseline

Ensembl Gene ID Description

ENSMMUG0000000009 protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]
ENSMMUG00000000104 ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]
ENSMMUG00000000238 HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]
ENSMMUG00000000717 CD3e molecule associated protein [Source:NCBI gene;Acc:714440]
ENSMMUG00000000972 tyrosine kinase non receptor 2 [Source:VGNC Symbol;Acc:VGNC:79192]
ENSMMUG00000000974 mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]
ENSMMUG00000000981 T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]
ENSMMUG00000000982 protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]
ENSMMUG00000000983 aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]
ENSMMUG00000001121 zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]
ENSMMUG00000001212 Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]
ENSMMUG00000001213 spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]
ENSMMUG00000001225 calneuron 1 [Source:VGNC Symbol;Acc:VGNC:82078]
ENSMMUG00000001357 tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]
ENSMMUG00000001479 laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]
ENSMMUG00000001481 nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]
ENSMMUG00000001728 mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]
ENSMMUG00000001742 transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]
ENSMMUG00000001919 clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]
ENSMMUG00000001940 NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]
ENSMMUG00000002090 ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]
ENSMMUG00000002103 delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]
ENSMMUG00000002113 NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]
ENSMMUG00000002183 oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]
ENSMMUG00000002200 phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]
ENSMMUG00000002321 solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]
ENSMMUG00000002332 RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]
ENSMMUG00000002549 trehalase [Source:NCBI gene;Acc:706449]
ENSMMUG00000002638 WD repeat domain 18 [Source:VGNC Symbol;Acc:VGNC:79103]
ENSMMUG00000002657 olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]
ENSMMUG00000002742 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]
ENSMMUG00000002755 kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]
ENSMMUG00000002794 general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]
ENSMMUG00000002809 unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]
ENSMMUG00000002890 tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]
ENSMMUG00000002894 dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]
ENSMMUG00000002947 procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]
ENSMMUG00000003029 protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]
ENSMMUG00000003049 testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]
ENSMMUG00000003260
ENSMMUG00000003261 BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]
ENSMMUG00000003277 copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]
ENSMMUG00000003634 DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]
ENSMMUG00000003726 protein tyrosine phosphatase non-receptor type 13 [Source:VGNC Symbol;Acc:VGNC:76599]
ENSMMUG00000003736 nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]
ENSMMUG00000004157 nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]
ENSMMUG00000004178 NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]
ENSMMUG00000004223 ring finger protein 10 [Source:VGNC Symbol;Acc:VGNC:76702]
ENSMMUG00000004233 leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]
ENSMMUG00000004237 TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]
ENSMMUG00000004606 EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]

ENSMMUG0000004674 phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]
ENSMMUG0000004675 smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]
ENSMMUG0000004709 proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]
ENSMMUG0000004791 pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]
ENSMMUG0000004821 membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]
ENSMMUG0000005028 phosphodiesterase 4C [Source:NCBI gene;Acc:720171]
ENSMMUG0000005137 ATPase secretory pathway Ca²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]
ENSMMUG0000005204 VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]
ENSMMUG0000005246 zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]
ENSMMUG0000005301 ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]
ENSMMUG0000005463 bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]
ENSMMUG0000005515 ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]
ENSMMUG0000005727 protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]
ENSMMUG0000005801 glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]
ENSMMUG0000005851 B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]
ENSMMUG0000005856 glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]
ENSMMUG0000006187 angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]
ENSMMUG0000006251 argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]
ENSMMUG0000006252 argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]
ENSMMUG0000006547 ATPase H⁺ transporting V0 subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]
ENSMMUG0000006548 KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]
ENSMMUG0000006682 chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]
ENSMMUG0000006688 ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]
ENSMMUG0000006704 zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]
ENSMMUG0000006731 CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]
ENSMMUG0000006898 integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]
ENSMMUG0000007003 polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]
ENSMMUG0000007159 tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]
ENSMMUG0000007246 myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]
ENSMMUG0000007256 splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]
ENSMMUG0000007283 3-hydroxyisobutyryl-CoA hydrolase [Source:NCBI gene;Acc:713951]
ENSMMUG0000007313 histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]
ENSMMUG0000007325 Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]
ENSMMUG0000007326 ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]
ENSMMUG0000007330 nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]
ENSMMUG0000007398 potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]
ENSMMUG0000007411 integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]
ENSMMUG0000007424 nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]
ENSMMUG0000007561 zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]
ENSMMUG0000007620 transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]
ENSMMUG0000007628 cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]
ENSMMUG0000007765 Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]
ENSMMUG0000007816 SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]
ENSMMUG0000007821 ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]
ENSMMUG0000007875 F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]
ENSMMUG0000008009 family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]
ENSMMUG0000008228 unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]
ENSMMUG0000008540 ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]
ENSMMUG0000008639 tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]
ENSMMUG0000008643 general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]
ENSMMUG0000008718 zinc finger protein 280D [Source:NCBI gene;Acc:699509]

ENSMMUG00000008867 exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]
ENSMMUG00000008945 zinc finger protein 407 [Source:NCBI gene;Acc:695303]
ENSMMUG00000008974 Fc receptor like 5 [Source:NCBI gene;Acc:718771]
ENSMMUG00000009038 titin [Source:NCBI gene;Acc:703527]
ENSMMUG00000009084 transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]
ENSMMUG00000009155 SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]
ENSMMUG00000009493 family with sequence similarity 120A [Source:NCBI gene;Acc:717459]
ENSMMUG00000009519 WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]
ENSMMUG00000009536 makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]
ENSMMUG00000009773 lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]
ENSMMUG00000009948 histone deacetylase 1 [Source:NCBI gene;Acc:708441]
ENSMMUG00000009965 chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]
ENSMMUG00000010050 small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]
ENSMMUG00000010127 chitinase [Source:VGNC Symbol;Acc:VGNC:71540]
ENSMMUG00000010379 Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]
ENSMMUG00000010453 folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]
ENSMMUG00000010508 carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]
ENSMMUG00000010543 PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]
ENSMMUG00000010627 apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]
ENSMMUG00000010648 DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]
ENSMMUG00000010682 fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]
ENSMMUG00000010820 chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]
ENSMMUG00000011386 GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]
ENSMMUG00000011410 nuclear receptor subfamily 4 group A member 3 [Source:VGNC Symbol;Acc:VGNC:75519]
ENSMMUG00000011469 germ cell nuclear acidic peptidase [Source:VGNC Symbol;Acc:VGNC:72724]
ENSMMUG00000011702 tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]
ENSMMUG00000011902 oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]
ENSMMUG00000011974 calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]
ENSMMUG00000012056 structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]
ENSMMUG00000012058 GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]
ENSMMUG00000012101 synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]
ENSMMUG00000012110 smoothed, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]
ENSMMUG00000012129 tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]
ENSMMUG00000012192 erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]
ENSMMUG00000012338 G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]
ENSMMUG00000012462 proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]
ENSMMUG00000012480 REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]
ENSMMUG00000012481 importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]
ENSMMUG00000012587 zinc finger protein 69 [Source:NCBI gene;Acc:717030]
ENSMMUG00000012778 rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]
ENSMMUG00000012781 muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]
ENSMMUG00000012953 stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]
ENSMMUG00000013029 surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]
ENSMMUG00000013047 S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]
ENSMMUG00000013302 family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]
ENSMMUG00000013501 CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]
ENSMMUG00000013513 sex hormone binding globulin [Source:VGNC Symbol;Acc:VGNC:77208]
ENSMMUG00000013552 scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]
ENSMMUG00000013848 fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]
ENSMMUG00000014018 bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]
ENSMMUG00000014484 zinc finger protein 641 [Source:NCBI gene;Acc:708246]

ENSMMUG00000014687 sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]
ENSMMUG00000014735 carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]
ENSMMUG00000014762 myosin heavy chain 6 [Source:NCBI gene;Acc:713471]
ENSMMUG00000015000 SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]
ENSMMUG00000015002 chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]
ENSMMUG00000015117 X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]
ENSMMUG00000015141 ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]
ENSMMUG00000015143 F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]
ENSMMUG00000015167 DIS3 like 3'-5' exoribonuclease 2 [Source:VGNC Symbol;Acc:VGNC:71793]
ENSMMUG00000015202
ENSMMUG00000015279 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]
ENSMMUG00000015309 F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]
ENSMMUG00000015371 microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]
ENSMMUG00000015522 GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]
ENSMMUG00000015661 protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]
ENSMMUG00000015970 coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]
ENSMMUG00000016052 seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]
ENSMMUG00000016093 adenosine deaminase RNA specific [Source:VGNC Symbol;Acc:VGNC:69502]
ENSMMUG00000016262 tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]
ENSMMUG00000016313 RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]
ENSMMUG00000016314 family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]
ENSMMUG00000016526 solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]
ENSMMUG00000016610 CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]
ENSMMUG00000016791 doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]
ENSMMUG00000016880 solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]
ENSMMUG00000016906 F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]
ENSMMUG00000016927 solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]
ENSMMUG00000016983 acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]
ENSMMUG00000016993 PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]
ENSMMUG00000017113 ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]
ENSMMUG00000017125 oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]
ENSMMUG00000017145 cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]
ENSMMUG00000017186 pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]
ENSMMUG00000017191 zinc finger protein 546 [Source:VGNC Symbol;Acc:VGNC:79732]
ENSMMUG00000017204 programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]
ENSMMUG00000017207 dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]
ENSMMUG00000017210 sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]
ENSMMUG00000017230 V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]
ENSMMUG00000017234 leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]
ENSMMUG00000017246 lipoxigenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]
ENSMMUG00000017276 nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]
ENSMMUG00000017378 steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]
ENSMMUG00000017414 calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]
ENSMMUG00000017432 tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]
ENSMMUG00000017524 phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]
ENSMMUG00000017583 single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]
ENSMMUG00000017615 zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]
ENSMMUG00000017819 putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]
ENSMMUG00000018031 solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]
ENSMMUG00000018057 uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]
ENSMMUG00000018058 ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]

ENSMMUG00000018342 required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]
ENSMMUG00000018358 zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]
ENSMMUG00000018474 signal regulatory protein alpha [Source:NCBI gene;Acc:717811]
ENSMMUG00000018565 ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]
ENSMMUG00000018746 FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]
ENSMMUG00000018974 LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]
ENSMMUG00000019325 mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]
ENSMMUG00000019462 integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]
ENSMMUG00000019639 paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]
ENSMMUG00000019815 transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]
ENSMMUG00000019831 neurobeachin [Source:NCBI gene;Acc:714386]
ENSMMUG00000019850 arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]
ENSMMUG00000019892 myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]
ENSMMUG00000019977 myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]
ENSMMUG00000020047 integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]
ENSMMUG00000020061 protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]
ENSMMUG00000020184 carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]
ENSMMUG00000020211 cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]
ENSMMUG00000020289 CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]
ENSMMUG00000020370 SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]
ENSMMUG00000020533 chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]
ENSMMUG00000020540 NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]
ENSMMUG00000020706 ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]
ENSMMUG00000020804 transmembrane protein 132B [Source:NCBI gene;Acc:707118]
ENSMMUG00000020910 nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]
ENSMMUG00000020926 syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]
ENSMMUG00000020993 cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]
ENSMMUG00000021051 TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]
ENSMMUG00000021091 COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]
ENSMMUG00000021114 G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]
ENSMMUG00000021145 family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]
ENSMMUG00000021169 translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]
ENSMMUG00000021280 leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]
ENSMMUG00000021282 late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]
ENSMMUG00000021332 carboxypeptidase X, M14 family member 1 [Source:VGNC Symbol;Acc:VGNC:71413]
ENSMMUG00000021552 RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]
ENSMMUG00000021670 solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]
ENSMMUG00000021691 spastin [Source:VGNC Symbol;Acc:VGNC:77857]
ENSMMUG00000021878 timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]
ENSMMUG00000021914 spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]
ENSMMUG00000022056 DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]
ENSMMUG00000022121 CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]
ENSMMUG00000022153 solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]
ENSMMUG00000022183 spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]
ENSMMUG00000022185 odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]
ENSMMUG00000022199 polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]
ENSMMUG00000022202 basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]
ENSMMUG00000022562 interleukin 1 receptor accessory protein [Source:VGNC Symbol;Acc:VGNC:73718]
ENSMMUG00000022630 protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]
ENSMMUG00000022680 alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]
ENSMMUG00000022697 STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]

ENSMMUG00000022762 OMA1 zinc metalloproteinase [Source:VGNC Symbol;Acc:VGNC:75485]
ENSMMUG00000022975 sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]
ENSMMUG00000022982 IQ motif containing GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:73756]
ENSMMUG00000023124 transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]
ENSMMUG00000023249 aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]
ENSMMUG00000023265 A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]
ENSMMUG00000023676 espin [Source:NCBI gene;Acc:722532]
ENSMMUG00000023679 tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]
ENSMMUG00000026876 mmi-181a-2 [Source:miRBase;Acc:MI0002808]
ENSMMUG00000029164 glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]
ENSMMUG00000030099 phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]
ENSMMUG00000030381 arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]
ENSMMUG00000032252 UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]
ENSMMUG00000037551 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000037675 testis expressed 52 [Source:NCBI gene;Acc:107000723]
ENSMMUG00000038070 T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]
ENSMMUG00000038447
ENSMMUG00000038560 eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]
ENSMMUG00000038661
ENSMMUG00000039020 zinc finger protein 141 [Source:NCBI gene;Acc:714265]
ENSMMUG00000039317 cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]
ENSMMUG00000039944 Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]
ENSMMUG00000040154 T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]
ENSMMUG00000040694 LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]
ENSMMUG00000040764 alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]
ENSMMUG00000040771
ENSMMUG00000040958 lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]
ENSMMUG00000042208 pepsin A-4 [Source:NCBI gene;Acc:694646]
ENSMMUG00000042798
ENSMMUG00000043809 caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]
ENSMMUG00000044214
ENSMMUG00000044473
ENSMMUG00000044759
ENSMMUG00000045446
ENSMMUG00000045584 leucine zipper protein 1 [Source:NCBI gene;Acc:718626]
ENSMMUG00000046282
ENSMMUG00000046655 pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]
ENSMMUG00000047324 casein alpha s1 [Source:HGNC Symbol;Acc:HGNC:2445]
ENSMMUG00000047542 U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]
ENSMMUG00000049196 dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]
ENSMMUG00000049351 MAGE family member E1 [Source:NCBI gene;Acc:705379]
ENSMMUG00000049563
ENSMMUG00000049749
ENSMMUG00000049859
ENSMMUG00000049948
ENSMMUG00000050065
ENSMMUG00000050177
ENSMMUG00000050239
ENSMMUG00000050269 T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]
ENSMMUG00000050864
ENSMMUG00000051032 serine protease 2 [Source:NCBI gene;Acc:698352]

ENSMMUG00000051115
ENSMMUG00000051271
ENSMMUG00000051286
ENSMMUG00000051381 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051482
ENSMMUG00000052019
ENSMMUG00000052277 transthyretin [Source:NCBI gene;Acc:705943]
ENSMMUG00000052382 histone H4 [Source:NCBI gene;Acc:107000818]
ENSMMUG00000052526 RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]
ENSMMUG00000052535
ENSMMUG00000052574
ENSMMUG00000052605 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052642 protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]
ENSMMUG00000052676
ENSMMUG00000052682
ENSMMUG00000052830
ENSMMUG00000052929
ENSMMUG00000052977 putative protein FAM106C [Source:NCBI gene;Acc:106994084]
ENSMMUG00000053384
ENSMMUG00000053577
ENSMMUG00000053675
ENSMMUG00000053721
ENSMMUG00000054064
ENSMMUG00000054116 T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]
ENSMMUG00000054210 C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]
ENSMMUG00000054315
ENSMMUG00000054590
ENSMMUG00000054711
ENSMMUG00000055117
ENSMMUG00000055207
ENSMMUG00000055229
ENSMMUG00000055244 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055344 TLC domain containing 3A [Source:NCBI gene;Acc:699707]
ENSMMUG00000055477
ENSMMUG00000055585
ENSMMUG00000055590
ENSMMUG00000055610 homeobox C4 [Source:NCBI gene;Acc:100430434]
ENSMMUG00000055809
ENSMMUG00000055845 ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]
ENSMMUG00000056045
ENSMMUG00000056103 growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]
ENSMMUG00000056116
ENSMMUG00000056306
ENSMMUG00000056363
ENSMMUG00000056387 transcription factor 15 [Source:NCBI gene;Acc:716916]
ENSMMUG00000056687
ENSMMUG00000056790
ENSMMUG00000057031
ENSMMUG00000057073
ENSMMUG00000057143 transmembrane protein 127 [Source:NCBI gene;Acc:705069]
ENSMMUG00000057276

ENSMMUG00000057494 T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]
ENSMMUG00000057501
ENSMMUG00000057606 GPRIN family member 3 [Source:NCBI gene;Acc:703567]
ENSMMUG00000057859
ENSMMUG00000058151 chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]
ENSMMUG00000058583 RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]
ENSMMUG00000058603
ENSMMUG00000058740
ENSMMUG00000058942
ENSMMUG00000059019
ENSMMUG00000059241
ENSMMUG00000059267 pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]
ENSMMUG00000059575
ENSMMUG00000059707 MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]
ENSMMUG00000059773 methyltransferase like 11B [Source:NCBI gene;Acc:705503]
ENSMMUG00000059986
ENSMMUG00000060042
ENSMMUG00000060278 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060346
ENSMMUG00000060713 epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]
ENSMMUG00000060744
ENSMMUG00000060836
ENSMMUG00000060892
ENSMMUG00000061002
ENSMMUG00000061035 ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]
ENSMMUG00000061239
ENSMMUG00000061408
ENSMMUG00000061433
ENSMMUG00000061572 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061815
ENSMMUG00000061892
ENSMMUG00000061973
ENSMMUG00000062140
ENSMMUG00000062443
ENSMMUG00000062527
ENSMMUG00000062793
ENSMMUG00000062974
ENSMMUG00000063177 StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]
ENSMMUG00000063298
ENSMMUG00000063345
ENSMMUG00000064237
ENSMMUG00000064514 keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]
ENSMMUG00000064529
ENSMMUG00000064804
ENSMMUG00000065018 transmembrane protein 35A [Source:NCBI gene;Acc:702205]
ENSMMUG00000065031
ENSMMUG00000065099
ENSMMUG00000065117 septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]
ENSMMUG00000020175 mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]
ENSMMUG00000023137 zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]
ENSMMUG00000041450 zinc finger protein 432 [Source:NCBI gene;Acc:100424341]

Non-Survivors – SD2 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG0000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]
ENSMMUG00000000224	RALBP1 associated Eps domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76738]
ENSMMUG00000000663	guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]
ENSMMUG00000000972	tyrosine kinase non receptor 2 [Source:VGNC Symbol;Acc:VGNC:79192]
ENSMMUG00000001008	spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]
ENSMMUG00000001024	ETS transcription factor ELK4 [Source:VGNC Symbol;Acc:VGNC:72211]
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]
ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]
ENSMMUG00000001225	calneuron 1 [Source:VGNC Symbol;Acc:VGNC:82078]
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]
ENSMMUG00000001849	interleukin 5 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73731]
ENSMMUG00000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]
ENSMMUG00000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]
ENSMMUG00000002434	inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]
ENSMMUG00000002497	zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]
ENSMMUG00000002649	unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]
ENSMMUG00000002755	kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]
ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]
ENSMMUG00000002890	tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]
ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]
ENSMMUG00000003191	kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]
ENSMMUG00000003277	copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]
ENSMMUG00000003369	calcium/calmodulin dependent protein kinase IG [Source:VGNC Symbol;Acc:VGNC:70521]
ENSMMUG00000003693	DIS3 like exosome 3'-5' exoribonuclease [Source:VGNC Symbol;Acc:VGNC:71796]
ENSMMUG00000003736	nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]
ENSMMUG00000003869	WD repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:78940]
ENSMMUG00000003872	ral guanine nucleotide dissociation stimulator like 2 [Source:VGNC Symbol;Acc:VGNC:76886]
ENSMMUG00000003987	forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]
ENSMMUG00000004052	phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]
ENSMMUG00000004082	GRB10 interacting GYF protein 1 [Source:VGNC Symbol;Acc:VGNC:73158]

ENSMMUG0000004084 GTP cyclohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:72900]
ENSMMUG0000004287 death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]
ENSMMUG0000004362 Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]
ENSMMUG0000004492 absent in melanoma 2 [Source:NCBI gene;Acc:719260]
ENSMMUG0000004566 zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]
ENSMMUG0000004754 intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]
ENSMMUG0000004849 casein beta [Source:VGNC Symbol;Acc:VGNC:71523]
ENSMMUG0000004988 trace amine-associated receptor 3 [Source:NCBI gene;Acc:709130]
ENSMMUG0000005137 ATPase secretory pathway Ca²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]
ENSMMUG0000005181 RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]
ENSMMUG0000005366 alpha-L-fucosidase 2 [Source:VGNC Symbol;Acc:VGNC:72827]
ENSMMUG0000005442 5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]
ENSMMUG0000005634 ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]
ENSMMUG0000005801 glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]
ENSMMUG0000005856 glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]
ENSMMUG0000005923 failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]
ENSMMUG0000006187 angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]
ENSMMUG0000006251 argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]
ENSMMUG0000006252 argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]
ENSMMUG0000006309 unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]
ENSMMUG0000006457 Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]
ENSMMUG0000006548 KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]
ENSMMUG0000006553 dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]
ENSMMUG0000006682 chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]
ENSMMUG0000006704 zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]
ENSMMUG0000006827 von Willebrand factor A domain containing 7 [Source:VGNC Symbol;Acc:VGNC:78941]
ENSMMUG0000006898 integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]
ENSMMUG0000007244 OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]
ENSMMUG0000007250 RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]
ENSMMUG0000007255 microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]
ENSMMUG0000007256 splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]
ENSMMUG0000007257 synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]
ENSMMUG0000007504 myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]
ENSMMUG0000007524 RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]
ENSMMUG0000007561 zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]
ENSMMUG0000007765 Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]
ENSMMUG0000007766 suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]
ENSMMUG0000007783 isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]
ENSMMUG0000007821 ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]
ENSMMUG0000007968 hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]
ENSMMUG0000008009 family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]
ENSMMUG0000008093 StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]
ENSMMUG0000008228 unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]
ENSMMUG0000008447 fibulin 5 [Source:VGNC Symbol;Acc:VGNC:72622]
ENSMMUG0000008525 minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]
ENSMMUG0000008632 myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]
ENSMMUG0000008710 protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]
ENSMMUG0000008713 myosin binding protein H like [Source:NCBI gene;Acc:698183]
ENSMMUG0000008718 zinc finger protein 280D [Source:NCBI gene;Acc:699509]
ENSMMUG0000008795 polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]
ENSMMUG0000008797 ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]

ENSMMUG0000008974 Fc receptor like 5 [Source:NCBI gene;Acc:718771]
ENSMMUG0000009084 transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]
ENSMMUG0000009087 HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]
ENSMMUG0000009520 gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]
ENSMMUG0000009536 makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]
ENSMMUG0000009702 mutS homolog 5 [Source:NCBI gene;Acc:715494]
ENSMMUG0000009773 lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]
ENSMMUG0000009839 galactokinase 2 [Source:VGNC Symbol;Acc:VGNC:72870]
ENSMMUG0000009948 histone deacetylase 1 [Source:NCBI gene;Acc:708441]
ENSMMUG00000010113 steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]
ENSMMUG00000010127 chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]
ENSMMUG00000010379 Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]
ENSMMUG00000010648 DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]
ENSMMUG00000010682 fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]
ENSMMUG00000010695 adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]
ENSMMUG00000010980 S100 calcium binding protein A5 [Source:VGNC Symbol;Acc:VGNC:76959]
ENSMMUG00000011049 leucine rich repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:81087]
ENSMMUG00000011214 solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]
ENSMMUG00000011380 consortin, connexin sorting protein [Source:VGNC Symbol;Acc:VGNC:71355]
ENSMMUG00000011386 GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]
ENSMMUG00000011555 interleukin 16 [Source:VGNC Symbol;Acc:VGNC:84355]
ENSMMUG00000011573 cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]
ENSMMUG00000011702 tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]
ENSMMUG00000011810 FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]
ENSMMUG00000011902 oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]
ENSMMUG00000011974 calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]
ENSMMUG00000012110 smoothed, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]
ENSMMUG00000012120 zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]
ENSMMUG00000012124 ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]
ENSMMUG00000012129 tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]
ENSMMUG00000012151 glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]
ENSMMUG00000012192 erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]
ENSMMUG00000012238 polypeptide N-acetylgalactosaminyltransferase 11 [Source:VGNC Symbol;Acc:VGNC:72749]
ENSMMUG00000012462 proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]
ENSMMUG00000012473 proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]
ENSMMUG00000012474 ring finger protein 31 [Source:NCBI gene;Acc:715239]
ENSMMUG00000012480 REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]
ENSMMUG00000012481 importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]
ENSMMUG00000012615 pecanex 2 [Source:NCBI gene;Acc:712828]
ENSMMUG00000012690 myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]
ENSMMUG00000012781 muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]
ENSMMUG00000013047 S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]
ENSMMUG00000013302 family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]
ENSMMUG00000013848 fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]
ENSMMUG00000013878 ring finger protein 2 [Source:NCBI gene;Acc:717024]
ENSMMUG00000013907 ribosomal protein S27a [Source:NCBI gene;Acc:718909]
ENSMMUG00000013920 triggering receptor expressed on myeloid cells 2 [Source:VGNC Symbol;Acc:VGNC:79089]
ENSMMUG00000014762 myosin heavy chain 6 [Source:NCBI gene;Acc:713471]
ENSMMUG00000014997 spalt like transcription factor 2 [Source:NCBI gene;Acc:708367]
ENSMMUG00000015000 SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]
ENSMMUG00000015002 chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]

ENSMMUG00000015004 TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]
ENSMMUG00000015041 CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]
ENSMMUG00000015132 galectin 8 [Source:VGNC Symbol;Acc:VGNC:74258]
ENSMMUG00000015168 transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]
ENSMMUG00000015309 F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]
ENSMMUG00000015355 R-spondin 3 [Source:VGNC Symbol;Acc:VGNC:77066]
ENSMMUG00000015371 microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]
ENSMMUG00000015380 proline and serine rich coiled-coil 1 [Source:VGNC Symbol;Acc:VGNC:76307]
ENSMMUG00000015577 RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]
ENSMMUG00000015634 centromere protein F [Source:VGNC Symbol;Acc:VGNC:71009]
ENSMMUG00000015661 protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]
ENSMMUG00000016004 acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]
ENSMMUG00000016135 neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]
ENSMMUG00000016286 protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]
ENSMMUG00000016857 prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]
ENSMMUG00000016880 solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]
ENSMMUG00000016896 solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]
ENSMMUG00000016993 PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]
ENSMMUG00000017070 zinc finger and SCAN domain containing 29 [Source:VGNC Symbol;Acc:VGNC:79633]
ENSMMUG00000017076 tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]
ENSMMUG00000017114 pleckstrin homology domain containing A6 [Source:VGNC Symbol;Acc:VGNC:76040]
ENSMMUG00000017125 oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]
ENSMMUG00000017186 pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]
ENSMMUG00000017374 G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]
ENSMMUG00000017414 calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]
ENSMMUG00000017432 tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]
ENSMMUG00000017549 ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]
ENSMMUG00000017583 single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]
ENSMMUG00000018058 ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]
ENSMMUG00000018079 transmembrane serine protease 3 [Source:VGNC Symbol;Acc:VGNC:78576]
ENSMMUG00000018081 ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]
ENSMMUG00000018284 mutS homolog 3 [Source:VGNC Symbol;Acc:VGNC:74932]
ENSMMUG00000018332 family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]
ENSMMUG00000018342 required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]
ENSMMUG00000018346 coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]
ENSMMUG00000018456 PBX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:75771]
ENSMMUG00000018459 G protein signaling modulator 3 [Source:VGNC Symbol;Acc:VGNC:72938]
ENSMMUG00000018461 notch receptor 4 [Source:VGNC Symbol;Acc:VGNC:75372]
ENSMMUG00000018490 ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]
ENSMMUG00000018493 FH2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72598]
ENSMMUG00000018565 ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]
ENSMMUG00000018739 sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]
ENSMMUG00000018746 FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]
ENSMMUG00000018747 5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]
ENSMMUG00000018827 multiple EGF like domains 10 [Source:VGNC Symbol;Acc:VGNC:74617]
ENSMMUG00000018939 leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]
ENSMMUG00000018943 spermatogenesis associated 18 [Source:VGNC Symbol;Acc:VGNC:78013]
ENSMMUG00000018972 RNA polymerase III subunit G [Source:VGNC Symbol;Acc:VGNC:84480]
ENSMMUG00000018974 LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]
ENSMMUG00000019045 estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]
ENSMMUG00000019105 RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]

ENSMMUG00000019325 mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]
ENSMMUG00000019710 centrosomal protein 128 [Source:VGNC Symbol;Acc:VGNC:71062]
ENSMMUG00000019713 thyroid stimulating hormone receptor [Source:VGNC Symbol;Acc:VGNC:78662]
ENSMMUG00000019836 myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]
ENSMMUG00000019854 transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]
ENSMMUG00000019887 synaptic vesicle glycoprotein 2C [Source:VGNC Symbol;Acc:VGNC:78252]
ENSMMUG00000019977 myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]
ENSMMUG00000019978 HERV-H LTR-associating 2 [Source:VGNC Symbol;Acc:VGNC:73377]
ENSMMUG00000019992 growth factor receptor bound protein 10 [Source:VGNC Symbol;Acc:VGNC:73157]
ENSMMUG00000020047 integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]
ENSMMUG00000020050 salt inducible kinase 1 [Source:NCBI gene;Acc:722303]
ENSMMUG00000020117 semaphorin 3B [Source:VGNC Symbol;Acc:VGNC:77160]
ENSMMUG00000020289 CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]
ENSMMUG00000020348 BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]
ENSMMUG00000020377 collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]
ENSMMUG00000020910 nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]
ENSMMUG00000020913 scavenger receptor class B member 2 [Source:VGNC Symbol;Acc:VGNC:77026]
ENSMMUG00000021034 complement C6 [Source:VGNC Symbol;Acc:VGNC:70477]
ENSMMUG00000021053 annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]
ENSMMUG00000021145 family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]
ENSMMUG00000021242 natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]
ENSMMUG00000021244 kelch like family member 40 [Source:VGNC Symbol;Acc:VGNC:74165]
ENSMMUG00000021354 corticotropin releasing hormone binding protein [Source:VGNC Symbol;Acc:VGNC:71491]
ENSMMUG00000021377 SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]
ENSMMUG00000021507 chromosome 2 C3orf38 homolog [Source:VGNC Symbol;Acc:VGNC:70654]
ENSMMUG00000021534 solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]
ENSMMUG00000021552 RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]
ENSMMUG00000021656 golgin subfamily A member 8S [Source:NCBI gene;Acc:722977]
ENSMMUG00000021788 immunoglobulin superfamily DCC subclass member 4 [Source:VGNC Symbol;Acc:VGNC:73388]
ENSMMUG00000021837 seryl-tRNA synthetase 1 [Source:NCBI gene;Acc:695046]
ENSMMUG00000022124 stonin 2 [Source:VGNC Symbol;Acc:VGNC:78249]
ENSMMUG00000022153 solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]
ENSMMUG00000022183 spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]
ENSMMUG00000022199 polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]
ENSMMUG00000022324 formimidoyltransferase cyclodeaminase [Source:VGNC Symbol;Acc:VGNC:72825]
ENSMMUG00000022484 ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]
ENSMMUG00000022624 putative speedy protein E16 [Source:NCBI gene;Acc:718058]
ENSMMUG00000022631 ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]
ENSMMUG00000022636 GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]
ENSMMUG00000022762 OMA1 zinc metallopeptidase [Source:VGNC Symbol;Acc:VGNC:75485]
ENSMMUG00000022927 RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]
ENSMMUG00000022963 solute carrier family 25 member 38 [Source:VGNC Symbol;Acc:VGNC:77571]
ENSMMUG00000023012 vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]
ENSMMUG00000023124 transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]
ENSMMUG00000023141 CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]
ENSMMUG00000023265 A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]
ENSMMUG00000023289 phospholipase D1 [Source:VGNC Symbol;Acc:VGNC:76171]
ENSMMUG00000023462 immunoglobulin like domain containing receptor 2 [Source:VGNC Symbol;Acc:VGNC:73619]
ENSMMUG00000023558 exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]
ENSMMUG00000023676 espin [Source:NCBI gene;Acc:722532]
ENSMMUG00000023679 tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]

ENSMMUG00000024125 small nucleolar RNA, H/ACA box 58 [Source:HGNC Symbol;Acc:HGNC:32652]
ENSMMUG00000024186 U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]
ENSMMUG00000024598 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000026103 U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]
ENSMMUG00000029475 zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]
ENSMMUG00000030099 phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]
ENSMMUG00000031821 chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]
ENSMMUG00000032031
ENSMMUG00000032252 UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]
ENSMMUG00000033738 RNA, U6atac small nuclear 6, pseudogene [Source:HGNC Symbol;Acc:HGNC:46905]
ENSMMUG00000037485
ENSMMUG00000037551 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000037625
ENSMMUG00000037806 chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]
ENSMMUG00000038051 uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]
ENSMMUG00000038070 T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]
ENSMMUG00000038560 eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]
ENSMMUG00000039020 zinc finger protein 141 [Source:NCBI gene;Acc:714265]
ENSMMUG00000039944 Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]
ENSMMUG00000040154 T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]
ENSMMUG00000040694 LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]
ENSMMUG00000040817 interferon regulatory factor 9 [Source:VGNC Symbol;Acc:VGNC:84361]
ENSMMUG00000041889 ADP ribosylation factor 6 [Source:VGNC Symbol;Acc:VGNC:84306]
ENSMMUG00000042798
ENSMMUG00000043001 milk fat globule EGF and factor V/VIII domain containing [Source:NCBI gene;Acc:703501]
ENSMMUG00000043161 endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]
ENSMMUG00000043229 carbohydrate sulfotransferase 14 [Source:NCBI gene;Acc:703115]
ENSMMUG00000043727 zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]
ENSMMUG00000043922 spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]
ENSMMUG00000044175 forkhead box O6 [Source:NCBI gene;Acc:697505]
ENSMMUG00000044473
ENSMMUG00000044628
ENSMMUG00000044759
ENSMMUG00000044958 adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]
ENSMMUG00000045584 leucine zipper protein 1 [Source:NCBI gene;Acc:718626]
ENSMMUG00000045974 suppressor APC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:83461]
ENSMMUG00000046165 chromosome 3 C7orf33 homolog [Source:NCBI gene;Acc:710503]
ENSMMUG00000046901 protein tyrosine phosphatase 4A2 [Source:NCBI gene;Acc:706489]
ENSMMUG00000047276 GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]
ENSMMUG00000047994 CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]
ENSMMUG00000048823
ENSMMUG00000049196 dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]
ENSMMUG00000049563
ENSMMUG00000049575 T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]
ENSMMUG00000049749
ENSMMUG00000049786
ENSMMUG00000049859
ENSMMUG00000049939
ENSMMUG00000050239
ENSMMUG00000050269 T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]
ENSMMUG00000050435

ENSMMUG00000050564
ENSMMUG00000050770
ENSMMUG00000050794 zinc finger protein 774 [Source:NCBI gene;Acc:702985]
ENSMMUG00000050858 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051020 zinc finger protein 467 [Source:NCBI gene;Acc:712106]
ENSMMUG00000051032 serine protease 2 [Source:NCBI gene;Acc:698352]
ENSMMUG00000051107
ENSMMUG00000051155 U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]
ENSMMUG00000051169
ENSMMUG00000051271
ENSMMUG00000051296 paired like homeobox 2B [Source:NCBI gene;Acc:701940]
ENSMMUG00000051354
ENSMMUG00000051381 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051429
ENSMMUG00000051446
ENSMMUG00000051522 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051589
ENSMMUG00000051641
ENSMMUG00000051661
ENSMMUG00000051768
ENSMMUG00000052282
ENSMMUG00000052287
ENSMMUG00000052382 histone H4 [Source:NCBI gene;Acc:107000818]
ENSMMUG00000052537
ENSMMUG00000052574
ENSMMUG00000052609 ribosomal protein L34 [Source:NCBI gene;Acc:696636]
ENSMMUG00000052682
ENSMMUG00000052830
ENSMMUG00000053036
ENSMMUG00000053344 splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]
ENSMMUG00000053384
ENSMMUG00000053550
ENSMMUG00000054078 histone H3 [Source:NCBI gene;Acc:114669830]
ENSMMUG00000054116 T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]
ENSMMUG00000054302 antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]
ENSMMUG00000054315
ENSMMUG00000054532
ENSMMUG00000054590
ENSMMUG00000054821
ENSMMUG00000055117
ENSMMUG00000055229
ENSMMUG00000055244 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055271
ENSMMUG00000055272 putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]
ENSMMUG00000055392
ENSMMUG00000055585
ENSMMUG00000055759 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055783
ENSMMUG00000055809
ENSMMUG00000055835 nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]
ENSMMUG00000055903 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000056103 growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]
ENSMMUG00000056116
ENSMMUG00000056363
ENSMMUG00000056369 SAP30 like [Source:NCBI gene;Acc:714400]
ENSMMUG00000056544
ENSMMUG00000056585
ENSMMUG00000056687
ENSMMUG00000056737
ENSMMUG00000056910
ENSMMUG00000057021 CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]
ENSMMUG00000057062
ENSMMUG00000057064
ENSMMUG00000057338
ENSMMUG00000057494 T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]
ENSMMUG00000057501
ENSMMUG00000057606 GPRIN family member 3 [Source:NCBI gene;Acc:703567]
ENSMMUG00000057697
ENSMMUG00000057859
ENSMMUG00000058151 chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]
ENSMMUG00000058332 testis expressed 46 [Source:NCBI gene;Acc:709002]
ENSMMUG00000058459
ENSMMUG00000058580 tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]
ENSMMUG00000058974
ENSMMUG00000059019
ENSMMUG00000059101
ENSMMUG00000059241
ENSMMUG00000059707 MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]
ENSMMUG00000060503 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060505
ENSMMUG00000060527
ENSMMUG00000060744
ENSMMUG00000060798
ENSMMUG00000060830
ENSMMUG00000060893
ENSMMUG00000061096 tubulin polymerization promoting protein [Source:NCBI gene;Acc:708834]
ENSMMUG00000061117
ENSMMUG00000061239
ENSMMUG00000061796
ENSMMUG00000061973
ENSMMUG00000062021
ENSMMUG00000062140
ENSMMUG00000062443
ENSMMUG00000062527
ENSMMUG00000062538 adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]
ENSMMUG00000062559
ENSMMUG00000062676
ENSMMUG00000062861
ENSMMUG00000062974
ENSMMUG00000063177 StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]
ENSMMUG00000063268
ENSMMUG00000063354

ENSMMUG00000064202
ENSMMUG00000064458
ENSMMUG00000064529
ENSMMUG00000064596 ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674454]
ENSMMUG00000064626 U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]
ENSMMUG00000064719
ENSMMUG00000064804
ENSMMUG00000065031
ENSMMUG00000065307
ENSMMUG00000000117 HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]
ENSMMUG00000000205 transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]
ENSMMUG00000000229 transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]
ENSMMUG00000000238 HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]
ENSMMUG00000000262 beta-ureidopropionase 1 [Source:VGNC Symbol;Acc:VGNC:79029]
ENSMMUG00000000364 translocase of outer mitochondrial membrane 22 [Source:NCBI gene;Acc:701286]
ENSMMUG00000000388 plectin [Source:VGNC Symbol;Acc:VGNC:76173]
ENSMMUG00000000667 zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]
ENSMMUG00000000669 gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]
ENSMMUG00000000690 catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]
ENSMMUG00000000797 exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]
ENSMMUG00000000974 mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]
ENSMMUG00000001172 spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]
ENSMMUG00000001293 autophagy related 16 like 2 [Source:VGNC Symbol;Acc:VGNC:70130]
ENSMMUG00000001294 FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]
ENSMMUG00000001357 tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]
ENSMMUG00000001402 solute carrier family 15 member 1 [Source:VGNC Symbol;Acc:VGNC:77393]
ENSMMUG00000001800 cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]
ENSMMUG00000002032 exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]
ENSMMUG00000002090 ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]
ENSMMUG00000002093 testis expressed 261 [Source:NCBI gene;Acc:703863]
ENSMMUG00000002103 delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]
ENSMMUG00000002113 NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]
ENSMMUG00000002183 oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]
ENSMMUG00000002231 transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]
ENSMMUG00000002250 beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]
ENSMMUG00000002370 integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]
ENSMMUG00000002520 solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]
ENSMMUG00000002549 trehalase [Source:NCBI gene;Acc:706449]
ENSMMUG00000002657 olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]
ENSMMUG00000002678 integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]
ENSMMUG00000002809 unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]
ENSMMUG00000003049 testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]
ENSMMUG00000003221 DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]
ENSMMUG00000003238 pregnancy zone protein [Source:NCBI gene;Acc:100430319]
ENSMMUG00000003260
ENSMMUG00000003261 BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]
ENSMMUG00000003877 KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]
ENSMMUG00000003946 ADP-ribosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:69890]
ENSMMUG00000003973 autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]
ENSMMUG00000004157 nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]
ENSMMUG00000004178 NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]

ENSMMUG00000004208 serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]
ENSMMUG00000004215 LRAT domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74321]
ENSMMUG00000004233 leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]
ENSMMUG00000004386 sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]
ENSMMUG00000004387 ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]
ENSMMUG00000004493 propionyl-CoA carboxylase subunit alpha [Source:VGNC Symbol;Acc:VGNC:75773]
ENSMMUG00000004675 smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]
ENSMMUG00000004791 pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]
ENSMMUG00000004821 membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]
ENSMMUG00000004974 tripartite motif containing 21 [Source:VGNC Symbol;Acc:VGNC:78556]
ENSMMUG00000005042 RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]
ENSMMUG00000005067 elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]
ENSMMUG00000005119 histocompatibility minor 13 [Source:VGNC Symbol;Acc:VGNC:81418]
ENSMMUG00000005170 unc-45 myosin chaperone B [Source:VGNC Symbol;Acc:VGNC:78954]
ENSMMUG00000005200 PC-esterase domain containing 1A [Source:VGNC Symbol;Acc:VGNC:75622]
ENSMMUG00000005204 VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]
ENSMMUG00000005246 zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]
ENSMMUG00000005295 parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]
ENSMMUG00000005301 ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]
ENSMMUG00000005572 arachidonate 5-lipoxygenase activating protein [Source:VGNC Symbol;Acc:VGNC:69799]
ENSMMUG00000005610 protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]
ENSMMUG00000005851 B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]
ENSMMUG00000005900 GID complex subunit 4 homolog [Source:NCBI gene;Acc:699842]
ENSMMUG00000006048 adaptor related protein complex 2 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69964]
ENSMMUG00000006197 plasminogen receptor with a C-terminal lysine [Source:VGNC Symbol;Acc:VGNC:76098]
ENSMMUG00000006215 serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]
ENSMMUG00000006493 ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]
ENSMMUG00000006731 CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]
ENSMMUG00000006775 proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]
ENSMMUG00000007001 protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]
ENSMMUG00000007003 polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]
ENSMMUG00000007085 zinc finger and BTB domain containing 16 [Source:VGNC Symbol;Acc:VGNC:78845]
ENSMMUG00000007187 haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]
ENSMMUG00000007215 X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]
ENSMMUG00000007313 histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]
ENSMMUG00000007325 Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]
ENSMMUG00000007326 ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]
ENSMMUG00000007330 nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]
ENSMMUG00000007411 integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]
ENSMMUG00000007424 nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]
ENSMMUG00000007620 transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]
ENSMMUG00000007628 cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]
ENSMMUG00000007709 crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]
ENSMMUG00000007742 potassium voltage-gated channel subfamily Q member 1 [Source:VGNC Symbol;Acc:VGNC:82168]
ENSMMUG00000007751 solute carrier family 22 member 18 [Source:NCBI gene;Acc:721230]
ENSMMUG00000007775 survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]
ENSMMUG00000007868 AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]
ENSMMUG00000008113 pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]
ENSMMUG00000008643 general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]
ENSMMUG00000008827 apoptosis inhibitor 5 [Source:NCBI gene;Acc:716346]
ENSMMUG00000009038 titin [Source:NCBI gene;Acc:703527]

ENSMMUG00000009155 SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]
ENSMMUG00000009303 coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]
ENSMMUG00000009493 family with sequence similarity 120A [Source:NCBI gene;Acc:717459]
ENSMMUG00000009519 WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]
ENSMMUG00000009524 adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]
ENSMMUG00000009695 BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]
ENSMMUG00000009775 caveolae associated protein 4 [Source:NCBI gene;Acc:714379]
ENSMMUG00000009782 C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]
ENSMMUG00000009831 TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]
ENSMMUG00000009958 ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]
ENSMMUG00000009965 chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]
ENSMMUG00000010114 Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]
ENSMMUG00000010453 folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]
ENSMMUG00000010508 carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]
ENSMMUG00000010543 PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]
ENSMMUG00000010596 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 [Source:VGNC Symbol;Acc:VGNC:75959]
ENSMMUG00000010627 apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]
ENSMMUG00000010819 fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]
ENSMMUG00000010820 chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]
ENSMMUG00000011116 NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]
ENSMMUG00000011183 olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]
ENSMMUG00000011401 amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]
ENSMMUG00000011712 olfactory receptor 5B21 [Source:NCBI gene;Acc:702145]
ENSMMUG00000011821 phosphatidylinositol transfer protein membrane associated 1 [Source:VGNC Symbol;Acc:VGNC:76007]
ENSMMUG00000012029 sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]
ENSMMUG00000012056 structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]
ENSMMUG00000012058 GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]
ENSMMUG00000012101 synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]
ENSMMUG00000012191 coiled-coil domain containing 153 [Source:NCBI gene;Acc:704216]
ENSMMUG00000012332 UBA domain containing 2 [Source:NCBI gene;Acc:703484]
ENSMMUG00000012467 family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]
ENSMMUG00000012775 nuclear receptor subfamily 0 group B member 1 [Source:NCBI gene;Acc:574154]
ENSMMUG00000012778 rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]
ENSMMUG00000012819 pyruvate dehydrogenase kinase 3 [Source:VGNC Symbol;Acc:VGNC:75934]
ENSMMUG00000012953 stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]
ENSMMUG00000013029 surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]
ENSMMUG00000013032 phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]
ENSMMUG00000013035 teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]
ENSMMUG00000013093 uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]
ENSMMUG00000013094 lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]
ENSMMUG00000013138 Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]
ENSMMUG00000013220 cytochrome b-245 beta chain [Source:VGNC Symbol;Acc:VGNC:71576]
ENSMMUG00000013345 folliculin [Source:NCBI gene;Acc:698082]
ENSMMUG00000013501 CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]
ENSMMUG00000013503 mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]
ENSMMUG00000013552 scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]
ENSMMUG00000013643 zinc finger CCHC-type containing 8 [Source:VGNC Symbol;Acc:VGNC:79487]
ENSMMUG00000013742 regulator of G protein signaling 22 [Source:VGNC Symbol;Acc:VGNC:82221]
ENSMMUG00000013777 DDHD domain containing 2 [Source:VGNC Symbol;Acc:VGNC:83992]
ENSMMUG00000013799 ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]
ENSMMUG00000014001 protein phosphatase 2 scaffold subunit A beta [Source:VGNC Symbol;Acc:VGNC:76375]

ENSMMUG00000014027 nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]
ENSMMUG00000014299 chromosome 12 C2orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70459]
ENSMMUG00000014314 ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]
ENSMMUG00000014394 DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]
ENSMMUG00000014484 zinc finger protein 641 [Source:NCBI gene;Acc:708246]
ENSMMUG00000014531 transmembrane protein 109 [Source:VGNC Symbol;Acc:VGNC:79740]
ENSMMUG00000014610 ring finger protein 17 [Source:NCBI gene;Acc:708198]
ENSMMUG00000014672 mitogen-activated protein kinase kinase kinase 20 [Source:NCBI gene;Acc:698274]
ENSMMUG00000014810 short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]
ENSMMUG00000014980 keratin 76 [Source:VGNC Symbol;Acc:VGNC:74112]
ENSMMUG00000015117 X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]
ENSMMUG00000015141 ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]
ENSMMUG00000015143 F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]
ENSMMUG00000015151 interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]
ENSMMUG00000015189 RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]
ENSMMUG00000015238 O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]
ENSMMUG00000015279 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]
ENSMMUG00000015414 family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]
ENSMMUG00000015522 GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]
ENSMMUG00000015540 BTB domain containing 11 [Source:VGNC Symbol;Acc:VGNC:70367]
ENSMMUG00000015550 PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]
ENSMMUG00000015619 ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]
ENSMMUG00000015923 ankyrin repeat and EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69615]
ENSMMUG00000015962 AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]
ENSMMUG00000015970 coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]
ENSMMUG00000016052 seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]
ENSMMUG00000016077 isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]
ENSMMUG00000016262 tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]
ENSMMUG00000016313 RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]
ENSMMUG00000016314 family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]
ENSMMUG00000016316 testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]
ENSMMUG00000016331 glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]
ENSMMUG00000016610 CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]
ENSMMUG00000016723 zinc finger protein 287 [Source:NCBI gene;Acc:695524]
ENSMMUG00000016791 doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]
ENSMMUG00000016845 zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]
ENSMMUG00000016871 alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]
ENSMMUG00000016927 solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]
ENSMMUG00000016983 acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]
ENSMMUG00000017173 heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]
ENSMMUG00000017204 programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]
ENSMMUG00000017206 SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]
ENSMMUG00000017210 sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]
ENSMMUG00000017230 V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]
ENSMMUG00000017355 remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]
ENSMMUG00000017524 phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]
ENSMMUG00000017892 RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]
ENSMMUG00000017931 gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]
ENSMMUG00000017932 acyl-CoA synthetase short chain family member 2 [Source:VGNC Symbol;Acc:VGNC:69410]
ENSMMUG00000018358 zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]
ENSMMUG00000018474 signal regulatory protein alpha [Source:NCBI gene;Acc:717811]

ENSMMUG00000018679 glycerdehyde-3-phosphate dehydrogenase [Source:NCBI gene;Acc:574353]
ENSMMUG00000019145 TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]
ENSMMUG00000019148 vitronectin [Source:NCBI gene;Acc:708499]
ENSMMUG00000019639 paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]
ENSMMUG00000019831 neurobeachin [Source:NCBI gene;Acc:714386]
ENSMMUG00000019850 arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]
ENSMMUG00000020202 melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]
ENSMMUG00000020211 cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]
ENSMMUG00000020370 SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]
ENSMMUG00000020533 chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]
ENSMMUG00000020706 ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]
ENSMMUG00000020792 Rap guanine nucleotide exchange factor 4 [Source:VGNC Symbol;Acc:VGNC:76490]
ENSMMUG00000020812 A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]
ENSMMUG00000020926 syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]
ENSMMUG00000020993 cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]
ENSMMUG00000021083 Josephin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73920]
ENSMMUG00000021091 COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]
ENSMMUG00000021097 sushi domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78207]
ENSMMUG00000021114 G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]
ENSMMUG00000021197 TBC1 domain family member 4 [Source:VGNC Symbol;Acc:VGNC:78166]
ENSMMUG00000021280 leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]
ENSMMUG00000021282 late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]
ENSMMUG00000021291 thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]
ENSMMUG00000021331 EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]
ENSMMUG00000021370 kringle containing transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:74066]
ENSMMUG00000021393 calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]
ENSMMUG00000021409 developmentally regulated GTP binding protein 2 [Source:VGNC Symbol;Acc:VGNC:71993]
ENSMMUG00000021459 MYC binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75011]
ENSMMUG00000021670 solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]
ENSMMUG00000021691 spastin [Source:VGNC Symbol;Acc:VGNC:77857]
ENSMMUG00000021775 beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]
ENSMMUG00000021782 LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]
ENSMMUG00000021878 timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]
ENSMMUG00000022185 odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]
ENSMMUG00000022202 basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]
ENSMMUG00000022278 mitochondrial transcription termination factor 2 [Source:VGNC Symbol;Acc:VGNC:74868]
ENSMMUG00000022589 prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]
ENSMMUG00000022601 cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]
ENSMMUG00000022602 methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]
ENSMMUG00000022676 ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]
ENSMMUG00000022865 junctophilin 2 [Source:NCBI gene;Acc:694158]
ENSMMUG00000022944 zinc finger and BTB domain containing 44 [Source:VGNC Symbol;Acc:VGNC:79466]
ENSMMUG00000023076 diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]
ENSMMUG00000023248 serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]
ENSMMUG00000023443 SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]
ENSMMUG00000023446 tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]
ENSMMUG00000023450 tyrosylprotein sulfotransferase 2 [Source:VGNC Symbol;Acc:VGNC:78639]
ENSMMUG00000023752 SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]
ENSMMUG00000023791 SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]
ENSMMUG00000025616
ENSMMUG00000026432 small nucleolar RNA, C/D box 7 [Source:HGNC Symbol;Acc:HGNC:32704]

ENSMMUG00000028701
ENSMMUG00000029197 YY1 transcription factor [Source:NCBI gene;Acc:717370]
ENSMMUG00000030381 arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]
ENSMMUG00000031000 Rho GTPase activating protein 8 [Source:NCBI gene;Acc:716745]
ENSMMUG00000031121 solute carrier family 25 member 18 [Source:VGNC Symbol;Acc:VGNC:77434]
ENSMMUG00000031736
ENSMMUG00000031965 aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]
ENSMMUG00000032427 neuroligin 3 [Source:NCBI gene;Acc:574216]
ENSMMUG00000032892 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037675 testis expressed 52 [Source:NCBI gene;Acc:107000723]
ENSMMUG00000038569 5',3'-nucleotidase, mitochondrial [Source:NCBI gene;Acc:698591]
ENSMMUG00000038587 prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]
ENSMMUG00000038661
ENSMMUG00000039300
ENSMMUG00000040958 lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]
ENSMMUG00000041067 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000041301 TNF superfamily member 8 [Source:NCBI gene;Acc:702944]
ENSMMUG00000042208 pepsin A-4 [Source:NCBI gene;Acc:694646]
ENSMMUG00000042668 cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]
ENSMMUG00000043096 nuclear transcription factor, X-box binding 1 [Source:NCBI gene;Acc:702945]
ENSMMUG00000043411 zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]
ENSMMUG00000043682 mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]
ENSMMUG00000044047 killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]
ENSMMUG00000044214
ENSMMUG00000044537 DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]
ENSMMUG00000044782
ENSMMUG00000045105 phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]
ENSMMUG00000046218 X antigen family member 5 [Source:NCBI gene;Acc:114669729]
ENSMMUG00000046282
ENSMMUG00000046464 coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]
ENSMMUG00000046655 pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]
ENSMMUG00000048322 eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]
ENSMMUG00000048513 tudor domain containing 15 [Source:NCBI gene;Acc:703066]
ENSMMUG00000049117 CLLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]
ENSMMUG00000049351 MAGE family member E1 [Source:NCBI gene;Acc:705379]
ENSMMUG00000049437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049539
ENSMMUG00000049682 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049788
ENSMMUG00000049842
ENSMMUG00000050015 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050245
ENSMMUG00000050862
ENSMMUG00000050864
ENSMMUG00000050952
ENSMMUG00000050975
ENSMMUG00000051001
ENSMMUG00000051088
ENSMMUG00000051112 p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]
ENSMMUG00000051162
ENSMMUG00000051366

ENSMMUG00000051482
ENSMMUG00000051552
ENSMMUG00000051670
ENSMMUG00000051936
ENSMMUG00000051999
ENSMMUG00000052030 developing brain homeobox 2 [Source:NCBI gene;Acc:701170]
ENSMMUG00000052372
ENSMMUG00000052460
ENSMMUG00000052518 SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]
ENSMMUG00000052526 RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]
ENSMMUG00000052535
ENSMMUG00000052642 protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]
ENSMMUG00000052668
ENSMMUG00000052676
ENSMMUG00000052791
ENSMMUG00000052817 Sp7 transcription factor [Source:NCBI gene;Acc:702575]
ENSMMUG00000052929
ENSMMUG00000053577
ENSMMUG00000053648 actin binding transcription modulator [Source:NCBI gene;Acc:710486]
ENSMMUG00000053657
ENSMMUG00000053721
ENSMMUG00000054020 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000054176 methyltransferase like 8 [Source:NCBI gene;Acc:695361]
ENSMMUG00000054210 C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]
ENSMMUG00000054213 parathyroid hormone [Source:NCBI gene;Acc:700195]
ENSMMUG00000054462
ENSMMUG00000054655 immunoglobulin lambda variable 3-10 [Source:HGNC Symbol;Acc:HGNC:5897]
ENSMMUG00000054711
ENSMMUG00000054817 immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]
ENSMMUG00000054953 leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]
ENSMMUG00000055161
ENSMMUG00000055207
ENSMMUG00000055226 DNA damage inducible transcript 4 [Source:NCBI gene;Acc:715307]
ENSMMUG00000055344 TLC domain containing 3A [Source:NCBI gene;Acc:699707]
ENSMMUG00000055365
ENSMMUG00000055400 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055447 MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]
ENSMMUG00000055477
ENSMMUG00000055560
ENSMMUG00000055610 homeobox C4 [Source:NCBI gene;Acc:100430434]
ENSMMUG00000055845 ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]
ENSMMUG00000055887
ENSMMUG00000056045
ENSMMUG00000056056
ENSMMUG00000056303
ENSMMUG00000056306
ENSMMUG00000056387 transcription factor 15 [Source:NCBI gene;Acc:716916]
ENSMMUG00000056662
ENSMMUG00000056824
ENSMMUG00000057031
ENSMMUG00000057143 transmembrane protein 127 [Source:NCBI gene;Acc:705069]

ENSMMUG00000057199
ENSMMUG00000057276
ENSMMUG00000057302
ENSMMUG00000057651 frizzled class receptor 5 [Source:NCBI gene;Acc:710796]
ENSMMUG00000058240
ENSMMUG00000058583 RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]
ENSMMUG00000058603
ENSMMUG00000058855 aquaporin 5 [Source:NCBI gene;Acc:711804]
ENSMMUG00000058942
ENSMMUG00000059038 5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]
ENSMMUG00000059115
ENSMMUG00000059406 RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]
ENSMMUG00000059518
ENSMMUG00000059525
ENSMMUG00000059575
ENSMMUG00000059728 tumor protein p53 inducible protein 11 [Source:NCBI gene;Acc:715295]
ENSMMUG00000059824
ENSMMUG00000059922 family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]
ENSMMUG00000060062
ENSMMUG00000060346
ENSMMUG00000060579
ENSMMUG00000060781 G protein-coupled receptor 18 [Source:NCBI gene;Acc:698714]
ENSMMUG00000060836
ENSMMUG00000060892
ENSMMUG00000060932 zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]
ENSMMUG00000060971
ENSMMUG00000061004 ubiquitin specific peptidase 26 [Source:NCBI gene;Acc:706435]
ENSMMUG00000061068
ENSMMUG00000061260 Spi-C transcription factor [Source:NCBI gene;Acc:695809]
ENSMMUG00000061268 PLAG1 zinc finger [Source:NCBI gene;Acc:696149]
ENSMMUG00000061278
ENSMMUG00000061344
ENSMMUG00000061408
ENSMMUG00000061687
ENSMMUG00000061761 interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]
ENSMMUG00000061774 taste 2 receptor member 10 [Source:NCBI gene;Acc:717960]
ENSMMUG00000061779
ENSMMUG00000061815
ENSMMUG00000061834
ENSMMUG00000061892
ENSMMUG00000061986
ENSMMUG00000062793
ENSMMUG00000062818 regenerating islet-derived protein 3-alpha [Source:NCBI gene;Acc:716890]
ENSMMUG00000063262
ENSMMUG00000063345
ENSMMUG00000063655 sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]
ENSMMUG00000063668 cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]
ENSMMUG00000063703
ENSMMUG00000063747
ENSMMUG00000064075 ring finger protein 41 [Source:NCBI gene;Acc:711969]
ENSMMUG00000064216

ENSMMUG00000064364 sulfite oxidase [Source:NCBI gene;Acc:711164]
ENSMMUG00000064514 keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]
ENSMMUG00000064880
ENSMMUG00000065008
ENSMMUG00000065018 transmembrane protein 35A [Source:NCBI gene;Acc:702205]
ENSMMUG00000065099
ENSMMUG00000000618 gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]
ENSMMUG00000000620 dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]
ENSMMUG00000000717 CD3e molecule associated protein [Source:NCBI gene;Acc:714440]
ENSMMUG00000000718 ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]
ENSMMUG00000000981 T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]
ENSMMUG00000000982 protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]
ENSMMUG00000000983 aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]
ENSMMUG00000001245 zinc finger protein 532 [Source:NCBI gene;Acc:701146]
ENSMMUG00000001940 NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]
ENSMMUG00000001942 mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]
ENSMMUG00000002742 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]
ENSMMUG00000002912 TLE family member 6, subcortical maternal complex member [Source:VGNC Symbol;Acc:VGNC:79879]
ENSMMUG00000002961 G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]
ENSMMUG00000003029 protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]
ENSMMUG00000003302 dystrobrevin alpha [Source:VGNC Symbol;Acc:VGNC:72007]
ENSMMUG00000004760 CDK5 regulatory subunit associated protein 3 [Source:VGNC Symbol;Acc:VGNC:71015]
ENSMMUG00000005727 protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]
ENSMMUG00000005751 adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]
ENSMMUG00000005754 lysyl-tRNA synthetase 1 [Source:NCBI gene;Acc:714516]
ENSMMUG00000005913 activating transcription factor 7 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70103]
ENSMMUG00000007398 potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]
ENSMMUG00000007816 SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]
ENSMMUG00000007920 myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]
ENSMMUG00000008459 pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]
ENSMMUG00000008941 DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]
ENSMMUG00000008942 carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]
ENSMMUG00000011893 KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]
ENSMMUG00000012209 CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]
ENSMMUG00000012587 zinc finger protein 69 [Source:NCBI gene;Acc:717030]
ENSMMUG00000013053 sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]
ENSMMUG00000014687 sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]
ENSMMUG00000014735 carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]
ENSMMUG00000015702 divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]
ENSMMUG00000015845 beta-1,4-N-acetyl-galactosaminyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70120]
ENSMMUG00000016449 zinc finger protein 382 [Source:VGNC Symbol;Acc:VGNC:79078]
ENSMMUG00000016526 solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]
ENSMMUG00000016665 NADH:ubiquinone oxidoreductase subunit A11 [Source:NCBI gene;Acc:697843]
ENSMMUG00000017113 ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]
ENSMMUG00000017234 leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]
ENSMMUG00000017246 lipoxxygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]
ENSMMUG00000017379 myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]
ENSMMUG00000017427 ATPase Na⁺/K⁺ transporting subunit alpha 3 [Source:NCBI gene;Acc:706513]
ENSMMUG00000017615 zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]
ENSMMUG00000018031 solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]
ENSMMUG00000019892 myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]

ENSMMUG00000020061 protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]
ENSMMUG00000020175 mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]
ENSMMUG00000020540 NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]
ENSMMUG00000020898 cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]
ENSMMUG00000020905 chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]
ENSMMUG00000021095 desmoglein 2 [Source:VGNC Symbol;Acc:VGNC:72002]
ENSMMUG00000021636 SAP30 binding protein [Source:VGNC Symbol;Acc:VGNC:77142]
ENSMMUG00000021932 Rho GTPase activating protein 27 [Source:VGNC Symbol;Acc:VGNC:69935]
ENSMMUG00000022120 transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]
ENSMMUG00000022121 CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]
ENSMMUG00000022123 tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]
ENSMMUG00000022305 Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]
ENSMMUG00000022309 ETS repressor factor like [Source:NCBI gene;Acc:722195]
ENSMMUG00000022330 sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 [Source:NCBI gene;Acc:100428398]
ENSMMUG00000022625 periaxin [Source:VGNC Symbol;Acc:VGNC:76248]
ENSMMUG00000022627 HLF transcription factor, PAR bZIP family member [Source:VGNC Symbol;Acc:VGNC:73478]
ENSMMUG00000022656 perilipin 4 [Source:NCBI gene;Acc:693610]
ENSMMUG00000022724
ENSMMUG00000022726 dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]
ENSMMUG00000022975 sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]
ENSMMUG00000023137 zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]
ENSMMUG00000023251 KN motif and ankyrin repeat domains 2 [Source:VGNC Symbol;Acc:VGNC:73938]
ENSMMUG00000028925 HDGF like 2 [Source:NCBI gene;Acc:693476]
ENSMMUG00000029164 glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]
ENSMMUG00000038768 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000041450 zinc finger protein 432 [Source:NCBI gene;Acc:100424341]
ENSMMUG00000044277 ubiquitin conjugating enzyme E2 I [Source:NCBI gene;Acc:722434]
ENSMMUG00000044729 transcription factor AP-4 [Source:NCBI gene;Acc:707513]
ENSMMUG00000045592
ENSMMUG00000049194
ENSMMUG00000049948
ENSMMUG00000049997
ENSMMUG00000050177
ENSMMUG00000050544
ENSMMUG00000051115
ENSMMUG00000051190 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051261
ENSMMUG00000052031
ENSMMUG00000052277 transthyretin [Source:NCBI gene;Acc:705943]
ENSMMUG00000052786
ENSMMUG00000053008
ENSMMUG00000053624
ENSMMUG00000053889 olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]
ENSMMUG00000054064
ENSMMUG00000056147
ENSMMUG00000056165
ENSMMUG00000057840 leucine-rich repeat-containing protein 37A3 [Source:NCBI gene;Acc:715030]
ENSMMUG00000058016 bMERB domain containing 1 [Source:NCBI gene;Acc:713757]
ENSMMUG00000058142
ENSMMUG00000058233 C-C motif chemokine 3-like [Source:NCBI gene;Acc:100426537]
ENSMMUG00000059128

ENSMMUG00000060455
 ENSMMUG00000060536
 ENSMMUG00000060713 epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]
 ENSMMUG00000060993 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000061572 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000061594
 ENSMMUG00000061967 carbohydrate sulfotransferase 4 [Source:NCBI gene;Acc:708116]
 ENSMMUG00000062413 CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]
 ENSMMUG00000062791
 ENSMMUG00000062866
 ENSMMUG00000063586 zinc finger protein 536 [Source:NCBI gene;Acc:713142]
 ENSMMUG00000064131
 ENSMMUG00000064237
 ENSMMUG00000064519
 ENSMMUG00000064979 B9 domain containing 2 [Source:NCBI gene;Acc:704873]
 ENSMMUG00000065117 septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]
 ENSMMUG00000065131

Survivors – SD3 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]
ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]
ENSMMUG00000000104	ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]
ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]
ENSMMUG00000000388	plectin [Source:VGNC Symbol;Acc:VGNC:76173]
ENSMMUG00000000413	solute carrier family 7 member 7 [Source:VGNC Symbol;Acc:VGNC:77631]
ENSMMUG00000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]
ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]
ENSMMUG00000001357	tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]
ENSMMUG00000001374	supervillin [Source:NCBI gene;Acc:695267]
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]
ENSMMUG00000001549	ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]
ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]
ENSMMUG00000002090	ATPase H ⁺ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]
ENSMMUG00000002103	delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]
ENSMMUG00000002121	armadillo like helical domain containing 4 [Source:VGNC Symbol;Acc:VGNC:82106]
ENSMMUG00000002176	ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]
ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]
ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]
ENSMMUG00000002338	heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]
ENSMMUG00000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]
ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]

ENSMMUG0000002549 trehalase [Source:NCBI gene;Acc:706449]
ENSMMUG0000002653 hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]
ENSMMUG0000002794 general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]
ENSMMUG0000002890 tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]
ENSMMUG0000002894 dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]
ENSMMUG0000003051 COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]
ENSMMUG0000003260
ENSMMUG0000003261 BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]
ENSMMUG0000003277 copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]
ENSMMUG0000003282 phosphodiesterase 6B [Source:VGNC Symbol;Acc:VGNC:75920]
ENSMMUG0000003316 mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]
ENSMMUG0000003394 cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]
ENSMMUG0000003462 ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]
ENSMMUG0000003497 FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]
ENSMMUG0000003634 DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]
ENSMMUG0000003736 nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]
ENSMMUG0000004091 transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]
ENSMMUG0000004157 nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]
ENSMMUG0000004233 leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]
ENSMMUG0000004492 absent in melanoma 2 [Source:NCBI gene;Acc:719260]
ENSMMUG0000004603 zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]
ENSMMUG0000004606 EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]
ENSMMUG0000004614 potassium voltage-gated channel subfamily C member 4 [Source:VGNC Symbol;Acc:VGNC:73974]
ENSMMUG0000004675 smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]
ENSMMUG0000004821 membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]
ENSMMUG0000004849 casein beta [Source:VGNC Symbol;Acc:VGNC:71523]
ENSMMUG0000005137 ATPase secretory pathway Ca2+ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]
ENSMMUG0000005246 zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]
ENSMMUG0000005301 ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]
ENSMMUG0000005515 ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]
ENSMMUG0000005622 dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]
ENSMMUG0000005634 ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]
ENSMMUG0000005851 B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]
ENSMMUG0000005856 glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]
ENSMMUG0000005895 nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]
ENSMMUG0000006251 argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]
ENSMMUG0000006252 argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]
ENSMMUG0000006310 solute carrier family 3 member 1 [Source:VGNC Symbol;Acc:VGNC:77462]
ENSMMUG0000006311 prolyl endopeptidase like [Source:VGNC Symbol;Acc:VGNC:76346]
ENSMMUG0000006340 solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]
ENSMMUG0000006669 ubiquitin protein ligase E3 component n-recognin 4 [Source:VGNC Symbol;Acc:VGNC:79845]
ENSMMUG0000006688 ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]
ENSMMUG0000006704 zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]
ENSMMUG0000006713 cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]
ENSMMUG0000006731 CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]
ENSMMUG0000006768 coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]
ENSMMUG0000006842 doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]
ENSMMUG0000006898 integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]
ENSMMUG0000007003 polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]
ENSMMUG0000007077 APOBEC1 complementation factor [Source:VGNC Symbol;Acc:VGNC:69523]
ENSMMUG0000007310 solute carrier family 25 member 12 [Source:VGNC Symbol;Acc:VGNC:77430]

ENSMMUG0000007326 ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]
ENSMMUG0000007330 nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]
ENSMMUG0000007411 integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]
ENSMMUG0000007424 nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]
ENSMMUG0000007565 Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]
ENSMMUG0000007570 uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]
ENSMMUG0000007692 apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]
ENSMMUG0000007709 crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]
ENSMMUG0000007783 isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]
ENSMMUG0000007821 ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]
ENSMMUG0000008093 StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]
ENSMMUG0000008396 methylmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]
ENSMMUG0000008643 general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]
ENSMMUG0000008713 myosin binding protein H like [Source:NCBI gene;Acc:698183]
ENSMMUG0000008718 zinc finger protein 280D [Source:NCBI gene;Acc:699509]
ENSMMUG0000008781 BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]
ENSMMUG0000008785 E74 like ETS transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72208]
ENSMMUG0000008795 polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]
ENSMMUG0000008797 ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]
ENSMMUG0000008867 exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]
ENSMMUG0000008916 transferrin [Source:VGNC Symbol;Acc:VGNC:82716]
ENSMMUG0000008918 SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]
ENSMMUG0000008919 RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]
ENSMMUG0000008965 piwi like RNA-mediated gene silencing 4 [Source:VGNC Symbol;Acc:VGNC:81504]
ENSMMUG0000008974 Fc receptor like 5 [Source:NCBI gene;Acc:718771]
ENSMMUG0000009006 round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]
ENSMMUG0000009038 titin [Source:NCBI gene;Acc:703527]
ENSMMUG0000009155 SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]
ENSMMUG0000009425 actin, cytoplasmic 2-like [Source:NCBI gene;Acc:705671]
ENSMMUG0000009524 adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]
ENSMMUG0000009773 lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]
ENSMMUG0000009948 histone deacetylase 1 [Source:NCBI gene;Acc:708441]
ENSMMUG0000009965 chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]
ENSMMUG00000010304 cilia and flagella associated protein 298 [Source:NCBI gene;Acc:700721]
ENSMMUG00000010312 shroom family member 1 [Source:VGNC Symbol;Acc:VGNC:77299]
ENSMMUG00000010321 C2 domain containing 3 centriole elongation regulator [Source:VGNC Symbol;Acc:VGNC:70375]
ENSMMUG00000010453 folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]
ENSMMUG00000010601 solute carrier family 43 member 3 [Source:NCBI gene;Acc:706267]
ENSMMUG00000010647 inducible T cell costimulator ligand [Source:NCBI gene;Acc:722191]
ENSMMUG00000010648 DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]
ENSMMUG00000010682 fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]
ENSMMUG00000010788 ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]
ENSMMUG00000010819 fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]
ENSMMUG00000010820 chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]
ENSMMUG00000010858 prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]
ENSMMUG00000010978 S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]
ENSMMUG00000011116 NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]
ENSMMUG00000011274 prolyl 4-hydroxylase subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:75741]
ENSMMUG00000011386 GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]
ENSMMUG00000011974 calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]
ENSMMUG00000012036 RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]

ENSMMUG00000012056 structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]
ENSMMUG00000012058 GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]
ENSMMUG00000012110 smoothed, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]
ENSMMUG00000012120 zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]
ENSMMUG00000012129 tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]
ENSMMUG00000012156 zinc finger CCHC-type containing 17 [Source:VGNC Symbol;Acc:VGNC:79840]
ENSMMUG00000012192 erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]
ENSMMUG00000012203 aryl hydrocarbon receptor [Source:NCBI gene;Acc:714254]
ENSMMUG00000012218 calmodulin regulated spectrin associated protein family member 2 [Source:VGNC Symbol;Acc:VGNC:70666]
ENSMMUG00000012462 proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]
ENSMMUG00000012481 importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]
ENSMMUG00000012561 NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]
ENSMMUG00000012778 rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]
ENSMMUG00000012781 muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]
ENSMMUG00000013047 S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]
ENSMMUG00000013093 uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]
ENSMMUG00000013094 lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]
ENSMMUG00000013302 family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]
ENSMMUG00000013552 scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]
ENSMMUG00000013601 chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]
ENSMMUG00000013812 ubiquitin specific peptidase 44 [Source:VGNC Symbol;Acc:VGNC:79221]
ENSMMUG00000014018 bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]
ENSMMUG00000014307 myostatin [Source:VGNC Symbol;Acc:VGNC:74870]
ENSMMUG00000014314 ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]
ENSMMUG00000014350 MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]
ENSMMUG00000014394 DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]
ENSMMUG00000014474 SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]
ENSMMUG00000014484 zinc finger protein 641 [Source:NCBI gene;Acc:708246]
ENSMMUG00000014691 inhibitor of DNA binding 4, HLH protein [Source:VGNC Symbol;Acc:VGNC:73557]
ENSMMUG00000014697 nuclear factor I B [Source:VGNC Symbol;Acc:VGNC:75335]
ENSMMUG00000014884 ubiquitin specific peptidase 8 [Source:VGNC Symbol;Acc:VGNC:78748]
ENSMMUG00000015000 SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]
ENSMMUG00000015018 CD5 molecule [Source:VGNC Symbol;Acc:VGNC:70770]
ENSMMUG00000015117 X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]
ENSMMUG00000015141 ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]
ENSMMUG00000015143 F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]
ENSMMUG00000015238 O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]
ENSMMUG00000015279 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]
ENSMMUG00000015309 F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]
ENSMMUG00000015311 leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]
ENSMMUG00000015317 HD domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73209]
ENSMMUG00000015347 protein kinase, DNA-activated, catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76418]
ENSMMUG00000015522 GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]
ENSMMUG00000015577 RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]
ENSMMUG00000015590 siah E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77215]
ENSMMUG00000015604 myosin binding protein C3 [Source:VGNC Symbol;Acc:VGNC:75094]
ENSMMUG00000015661 protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]
ENSMMUG00000015962 AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]
ENSMMUG00000015970 coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]
ENSMMUG00000016004 acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]
ENSMMUG00000016093 adenosine deaminase RNA specific [Source:VGNC Symbol;Acc:VGNC:69502]

ENSMMUG00000016262 tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]
ENSMMUG00000016313 RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]
ENSMMUG00000016314 family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]
ENSMMUG00000016641 ubiquitin conjugating enzyme E2 B [Source:VGNC Symbol;Acc:VGNC:78692]
ENSMMUG00000016880 solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]
ENSMMUG00000016893 solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]
ENSMMUG00000016896 solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]
ENSMMUG00000016983 acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]
ENSMMUG00000017125 oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]
ENSMMUG00000017186 pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]
ENSMMUG00000017204 programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]
ENSMMUG00000017207 dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]
ENSMMUG00000017210 sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]
ENSMMUG00000017259 DnaJ heat shock protein family (Hsp40) member C6 [Source:NCBI gene;Acc:698682]
ENSMMUG00000017351 stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]
ENSMMUG00000017378 steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]
ENSMMUG00000017524 phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]
ENSMMUG00000017549 ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]
ENSMMUG00000017583 single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]
ENSMMUG00000017593 CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]
ENSMMUG00000017703 collagen type XXV alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81374]
ENSMMUG00000018051 FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]
ENSMMUG00000018279 adaptor related protein complex 5 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69868]
ENSMMUG00000018282 interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]
ENSMMUG00000018342 required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]
ENSMMUG00000018490 ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]
ENSMMUG00000018525 presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]
ENSMMUG00000018565 ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]
ENSMMUG00000018566 Janus kinase 1 [Source:VGNC Symbol;Acc:VGNC:73810]
ENSMMUG00000018685 chromodomain helicase DNA binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71029]
ENSMMUG00000018738 alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]
ENSMMUG00000018747 5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]
ENSMMUG00000018814 diacylglycerol kinase alpha [Source:VGNC Symbol;Acc:VGNC:71780]
ENSMMUG00000018901 FYVE, RhoGEF and PH domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72548]
ENSMMUG00000018974 LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]
ENSMMUG00000019325 mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]
ENSMMUG00000019462 integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]
ENSMMUG00000019639 paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]
ENSMMUG00000019857 beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]
ENSMMUG00000020047 integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]
ENSMMUG00000020049 phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]
ENSMMUG00000020211 cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]
ENSMMUG00000020289 CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]
ENSMMUG00000020370 SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]
ENSMMUG00000020412 parkin coregulated [Source:VGNC Symbol;Acc:VGNC:75646]
ENSMMUG00000020436 potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]
ENSMMUG00000020533 chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]
ENSMMUG00000020706 ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]
ENSMMUG00000020784 centrosomal protein 126 [Source:NCBI gene;Acc:701911]
ENSMMUG00000020821 testis expressed 15, meiosis and synapsis associated [Source:VGNC Symbol;Acc:VGNC:78318]
ENSMMUG00000020928 nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]

ENSMMUG00000020992 calcineurin binding protein 1 [Source:NCBI gene;Acc:700566]
ENSMMUG00000021034 complement C6 [Source:VGNC Symbol;Acc:VGNC:70477]
ENSMMUG00000021051 TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]
ENSMMUG00000021053 annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]
ENSMMUG00000021145 family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]
ENSMMUG00000021168 unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]
ENSMMUG00000021169 translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]
ENSMMUG00000021216 UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]
ENSMMUG00000021393 calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]
ENSMMUG00000021420 pleckstrin 2 [Source:VGNC Symbol;Acc:VGNC:76071]
ENSMMUG00000021496 potassium sodium-activated channel subfamily T member 1 [Source:VGNC Symbol;Acc:VGNC:73856]
ENSMMUG00000021499 sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]
ENSMMUG00000021572 solute carrier family 39 member 9 [Source:VGNC Symbol;Acc:VGNC:77523]
ENSMMUG00000021620 ELKS/RAB6-interacting/CAST family member 2 [Source:VGNC Symbol;Acc:VGNC:72164]
ENSMMUG00000021782 LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]
ENSMMUG00000021878 timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]
ENSMMUG00000022044 scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]
ENSMMUG00000022153 solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]
ENSMMUG00000022183 spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]
ENSMMUG00000022185 odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]
ENSMMUG00000022199 polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]
ENSMMUG00000022202 basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]
ENSMMUG00000022256 transglutaminase 5 [Source:VGNC Symbol;Acc:VGNC:78341]
ENSMMUG00000022303 solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]
ENSMMUG00000022359 solute carrier family 38 member 2 [Source:VGNC Symbol;Acc:VGNC:77469]
ENSMMUG00000022372 cytochrome b561 family member A3 [Source:VGNC Symbol;Acc:VGNC:71458]
ENSMMUG00000022602 methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]
ENSMMUG00000022624 putative speedy protein E16 [Source:NCBI gene;Acc:718058]
ENSMMUG00000022630 protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]
ENSMMUG00000022680 alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]
ENSMMUG00000022697 STEAP4 metalloredutase [Source:VGNC Symbol;Acc:VGNC:77974]
ENSMMUG00000022762 OMA1 zinc metallopeptidase [Source:VGNC Symbol;Acc:VGNC:75485]
ENSMMUG00000023226 RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]
ENSMMUG00000023248 serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]
ENSMMUG00000023249 aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]
ENSMMUG00000023265 A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]
ENSMMUG00000023401 adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]
ENSMMUG00000023676 espin [Source:NCBI gene;Acc:722532]
ENSMMUG00000023679 tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]
ENSMMUG00000023811 boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]
ENSMMUG00000030099 phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]
ENSMMUG00000031296 caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]
ENSMMUG00000031853 RAB5B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81546]
ENSMMUG00000032252 UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]
ENSMMUG00000032427 neuroligin 3 [Source:NCBI gene;Acc:574216]
ENSMMUG00000032973 mml-mir-550 [Source:miRBase;Acc:MI0007826]
ENSMMUG00000033001 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037551 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000037625
ENSMMUG00000037675 testis expressed 52 [Source:NCBI gene;Acc:107000723]
ENSMMUG00000038051 uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]

ENSMMUG00000038070 T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]
ENSMMUG00000038288 TMEM9 domain family member B [Source:NCBI gene;Acc:708447]
ENSMMUG00000038560 eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]
ENSMMUG00000038661
ENSMMUG00000039020 zinc finger protein 141 [Source:NCBI gene;Acc:714265]
ENSMMUG00000039317 cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]
ENSMMUG00000039944 Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]
ENSMMUG00000040154 T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]
ENSMMUG00000040694 LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]
ENSMMUG00000040771
ENSMMUG00000040854 aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]
ENSMMUG00000042208 pepsin A-4 [Source:NCBI gene;Acc:694646]
ENSMMUG00000042798
ENSMMUG00000043504
ENSMMUG00000043809 caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]
ENSMMUG00000044175 forkhead box O6 [Source:NCBI gene;Acc:697505]
ENSMMUG00000044759
ENSMMUG00000045584 leucine zipper protein 1 [Source:NCBI gene;Acc:718626]
ENSMMUG00000046655 pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]
ENSMMUG00000046901 protein tyrosine phosphatase 4A2 [Source:NCBI gene;Acc:706489]
ENSMMUG00000047276 GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]
ENSMMUG00000047594
ENSMMUG00000047974 aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]
ENSMMUG00000048232 MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]
ENSMMUG00000048302 ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]
ENSMMUG00000049196 dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]
ENSMMUG00000049351 MAGE family member E1 [Source:NCBI gene;Acc:705379]
ENSMMUG00000049661 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049939
ENSMMUG00000049945
ENSMMUG00000050239
ENSMMUG00000050269 T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]
ENSMMUG00000050418 superoxide dismutase 2 [Source:NCBI gene;Acc:574097]
ENSMMUG00000050975
ENSMMUG00000051032 serine protease 2 [Source:NCBI gene;Acc:698352]
ENSMMUG00000051042
ENSMMUG00000051271
ENSMMUG00000051381 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051468 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051482
ENSMMUG00000051641
ENSMMUG00000052328 FAM20C golgi associated secretory pathway kinase [Source:NCBI gene;Acc:695088]
ENSMMUG00000052377
ENSMMUG00000052526 RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]
ENSMMUG00000052535
ENSMMUG00000052574
ENSMMUG00000052581 upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]
ENSMMUG00000052651 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052682
ENSMMUG00000052929
ENSMMUG00000053384

ENSMMUG00000053541
ENSMMUG00000053577
ENSMMUG00000053721
ENSMMUG00000054417
ENSMMUG00000054462
ENSMMUG00000054683 dynein axonemal heavy chain 12 [Source:NCBI gene;Acc:703670]
ENSMMUG00000054719
ENSMMUG00000055207
ENSMMUG00000055229
ENSMMUG00000055244 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055392
ENSMMUG00000055400 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055447 MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]
ENSMMUG00000055477
ENSMMUG00000055590
ENSMMUG00000055610 homeobox C4 [Source:NCBI gene;Acc:100430434]
ENSMMUG00000055783
ENSMMUG00000055809
ENSMMUG00000055845 ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]
ENSMMUG00000055970
ENSMMUG00000056045
ENSMMUG00000056054 zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]
ENSMMUG00000056103 growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]
ENSMMUG00000056116
ENSMMUG00000056790
ENSMMUG00000057073
ENSMMUG00000057276
ENSMMUG00000057494 T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]
ENSMMUG00000057501
ENSMMUG00000057544
ENSMMUG00000057606 GPRIN family member 3 [Source:NCBI gene;Acc:703567]
ENSMMUG00000057697
ENSMMUG00000058151 chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]
ENSMMUG00000058580 tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]
ENSMMUG00000058836 transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]
ENSMMUG00000058942
ENSMMUG00000059019
ENSMMUG00000059241
ENSMMUG00000059267 pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]
ENSMMUG00000059327 NUS1 dehydrololichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]
ENSMMUG00000059353 phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]
ENSMMUG00000059525
ENSMMUG00000059575
ENSMMUG00000059707 MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]
ENSMMUG00000059973
ENSMMUG00000060167
ENSMMUG00000060168
ENSMMUG00000060215 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000060278 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060346
ENSMMUG00000060744

ENSMMUG00000060845 F-box protein 48 [Source:NCBI gene;Acc:699202]
ENSMMUG00000060892
ENSMMUG00000061239
ENSMMUG00000061408
ENSMMUG00000061761 interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]
ENSMMUG00000061892
ENSMMUG00000061973
ENSMMUG00000062006 methionyl aminopeptidase 2 [Source:NCBI gene;Acc:712400]
ENSMMUG00000062527
ENSMMUG00000062793
ENSMMUG00000062974
ENSMMUG00000063177 StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]
ENSMMUG00000063345
ENSMMUG00000063348
ENSMMUG00000064089
ENSMMUG00000064529
ENSMMUG00000064804
ENSMMUG00000065099
ENSMMUG00000065128 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065301
ENSMMUG00000000717 CD3e molecule associated protein [Source:NCBI gene;Acc:714440]
ENSMMUG00000000981 T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]
ENSMMUG00000000982 protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]
ENSMMUG00000002109 proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]
ENSMMUG00000002113 NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]
ENSMMUG00000002742 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]
ENSMMUG00000003029 protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]
ENSMMUG00000003043 PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]
ENSMMUG00000003621 AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]
ENSMMUG00000004237 TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]
ENSMMUG00000004467 X-ray repair cross complementing 1 [Source:NCBI gene;Acc:711457]
ENSMMUG00000004709 proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]
ENSMMUG00000004711 transmembrane protein 74B [Source:VGNC Symbol;Acc:VGNC:78990]
ENSMMUG00000005204 VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]
ENSMMUG00000005727 protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]
ENSMMUG00000007398 potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]
ENSMMUG00000007816 SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]
ENSMMUG00000007875 F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]
ENSMMUG00000008313 zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]
ENSMMUG00000008540 ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]
ENSMMUG00000008941 DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]
ENSMMUG00000008942 carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]
ENSMMUG00000008945 zinc finger protein 407 [Source:NCBI gene;Acc:695303]
ENSMMUG00000008946 chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]
ENSMMUG00000010050 small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]
ENSMMUG00000010878 adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]
ENSMMUG00000011593 regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]
ENSMMUG00000011850 cadherin 1 [Source:VGNC Symbol;Acc:VGNC:70803]
ENSMMUG00000011893 KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]
ENSMMUG00000012486 retinoic acid receptor alpha [Source:VGNC Symbol;Acc:VGNC:76662]
ENSMMUG00000012761 sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]

ENSMMUG00000014687 sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]
ENSMMUG00000014735 carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]
ENSMMUG00000016753 dynein axonemal heavy chain 3 [Source:VGNC Symbol;Acc:VGNC:71941]
ENSMMUG00000016791 doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]
ENSMMUG00000016860 zinc finger protein 490 [Source:NCBI gene;Acc:100426568]
ENSMMUG00000016927 solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]
ENSMMUG00000017025 zinc finger CCCH-type containing 13 [Source:VGNC Symbol;Acc:VGNC:79248]
ENSMMUG00000017113 ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]
ENSMMUG00000017230 V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]
ENSMMUG00000017234 leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]
ENSMMUG00000017246 lipoxigenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]
ENSMMUG00000017276 nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]
ENSMMUG00000017379 myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]
ENSMMUG00000017615 zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]
ENSMMUG00000017725 eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]
ENSMMUG00000017972 zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]
ENSMMUG00000018358 zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]
ENSMMUG00000018415 Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]
ENSMMUG00000018474 signal regulatory protein alpha [Source:NCBI gene;Acc:717811]
ENSMMUG00000019265 zinc finger protein 575 [Source:VGNC Symbol;Acc:VGNC:79667]
ENSMMUG00000019665 SURP and G-patch domain containing 2 [Source:VGNC Symbol;Acc:VGNC:78163]
ENSMMUG00000019850 arachidonate lipoxigenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]
ENSMMUG00000019892 myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]
ENSMMUG00000020061 protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]
ENSMMUG00000021091 COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]
ENSMMUG00000021332 carboxypeptidase X, M14 family member 1 [Source:VGNC Symbol;Acc:VGNC:71413]
ENSMMUG00000021459 MYC binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75011]
ENSMMUG00000021474 zinc finger protein 45 [Source:NCBI gene;Acc:712591]
ENSMMUG00000022305 Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]
ENSMMUG00000022975 sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]
ENSMMUG00000023803 myosin heavy chain 10 [Source:NCBI gene;Acc:721979]
ENSMMUG00000028800 solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]
ENSMMUG00000029164 glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]
ENSMMUG00000029176 Rho GTPase activating protein 17 [Source:NCBI gene;Acc:701988]
ENSMMUG00000030381 arachidonate 15-lipoxigenase [Source:VGNC Symbol;Acc:VGNC:69796]
ENSMMUG00000030453 NLR family pyrin domain containing 1 [Source:NCBI gene;Acc:721648]
ENSMMUG00000037975 solute carrier family 7 member 6 [Source:NCBI gene;Acc:702903]
ENSMMUG00000041450 zinc finger protein 432 [Source:NCBI gene;Acc:100424341]
ENSMMUG00000041976 zinc finger protein 780B [Source:NCBI gene;Acc:701034]
ENSMMUG00000042157 caspase recruitment domain-containing protein 8 [Source:NCBI gene;Acc:718594]
ENSMMUG00000042707 angiopoietin like 6 [Source:NCBI gene;Acc:106994633]
ENSMMUG00000046195 MIS12 kinetochore complex component [Source:NCBI gene;Acc:712202]
ENSMMUG00000046237 4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]
ENSMMUG00000049997
ENSMMUG00000049999 cone-rod homeobox [Source:NCBI gene;Acc:717550]
ENSMMUG00000050177
ENSMMUG00000050458
ENSMMUG00000051115
ENSMMUG00000051286
ENSMMUG00000051966
ENSMMUG00000052031

ENSMMUG00000052277 transthyretin [Source:NCBI gene;Acc:705943]
 ENSMMUG00000053233
 ENSMMUG00000053298
 ENSMMUG00000054064
 ENSMMUG00000054210 C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]
 ENSMMUG00000054711
 ENSMMUG00000055344 TLC domain containing 3A [Source:NCBI gene;Acc:699707]
 ENSMMUG00000056387 transcription factor 15 [Source:NCBI gene;Acc:716916]
 ENSMMUG00000057209
 ENSMMUG00000058142
 ENSMMUG00000058583 RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]
 ENSMMUG00000058740
 ENSMMUG00000059543 zinc finger protein 30 [Source:NCBI gene;Acc:718310]
 ENSMMUG00000060439 schlafen family member 12 like [Source:NCBI gene;Acc:106992394]
 ENSMMUG00000061035 ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]
 ENSMMUG00000061085
 ENSMMUG00000061536
 ENSMMUG00000062623 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000062784
 ENSMMUG00000064114 zinc finger protein 709 [Source:NCBI gene;Acc:100427466]
 ENSMMUG00000064131
 ENSMMUG00000064158
 ENSMMUG00000064237

Non-Survivors – SD3 vs. Baseline

Ensembl Gene ID	Description
ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]
ENSMMUG00000000058	CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]
ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]
ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]
ENSMMUG00000000352	family with sequence similarity 229 member A [Source:NCBI gene;Acc:708770]
ENSMMUG00000000413	solute carrier family 7 member 7 [Source:VGNC Symbol;Acc:VGNC:77631]
ENSMMUG00000000667	zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]
ENSMMUG00000001008	spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]
ENSMMUG00000001209	arylsulfatase family member K [Source:VGNC Symbol;Acc:VGNC:84280]
ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]
ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]
ENSMMUG00000001225	calneuron 1 [Source:VGNC Symbol;Acc:VGNC:82078]
ENSMMUG00000001264	BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]
ENSMMUG00000001319	methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84399]
ENSMMUG00000001479	laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]
ENSMMUG00000001481	nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]
ENSMMUG00000001640	SIX homeobox 4 [Source:NCBI gene;Acc:703798]
ENSMMUG00000001728	mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]
ENSMMUG00000001742	transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]
ENSMMUG00000001892	UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]
ENSMMUG00000001894	cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]
ENSMMUG00000001918	transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]

ENSMMUG0000001919 clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]
ENSMMUG0000002200 phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]
ENSMMUG0000002332 RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]
ENSMMUG0000002337 aquarius intron-binding spliceosomal factor [Source:VGNC Symbol;Acc:VGNC:69925]
ENSMMUG0000002434 inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]
ENSMMUG0000002649 unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]
ENSMMUG0000002653 hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]
ENSMMUG0000002755 kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]
ENSMMUG0000002775 U2 snRNP associated SURP domain containing [Source:VGNC Symbol;Acc:VGNC:79889]
ENSMMUG0000002794 general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]
ENSMMUG0000002890 tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]
ENSMMUG0000002947 procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]
ENSMMUG0000003049 testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]
ENSMMUG0000003191 kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]
ENSMMUG0000003261 BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]
ENSMMUG0000003277 copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]
ENSMMUG0000003282 phosphodiesterase 6B [Source:VGNC Symbol;Acc:VGNC:75920]
ENSMMUG0000003497 FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]
ENSMMUG0000003634 DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]
ENSMMUG0000003693 DIS3 like exosome 3'-5' exoribonuclease [Source:VGNC Symbol;Acc:VGNC:71796]
ENSMMUG0000003736 nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]
ENSMMUG0000003987 forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]
ENSMMUG0000004052 phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]
ENSMMUG0000004178 NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]
ENSMMUG0000004287 death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]
ENSMMUG0000004362 Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]
ENSMMUG0000004492 absent in melanoma 2 [Source:NCBI gene;Acc:719260]
ENSMMUG0000004566 zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]
ENSMMUG0000004598 bisphosphoglycerate mutase [Source:VGNC Symbol;Acc:VGNC:70275]
ENSMMUG0000005137 ATPase secretory pathway Ca²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]
ENSMMUG0000005181 RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]
ENSMMUG0000005442 5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]
ENSMMUG0000005801 glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]
ENSMMUG0000005856 glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]
ENSMMUG0000006187 angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]
ENSMMUG0000006217 general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]
ENSMMUG0000006251 argonaute RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]
ENSMMUG0000006252 argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]
ENSMMUG0000006309 unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]
ENSMMUG0000006457 Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]
ENSMMUG0000006548 KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]
ENSMMUG0000006704 zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]
ENSMMUG0000006827 von Willebrand factor A domain containing 7 [Source:VGNC Symbol;Acc:VGNC:78941]
ENSMMUG0000006828 valyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:78755]
ENSMMUG0000006898 integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]
ENSMMUG0000007159 tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]
ENSMMUG0000007255 microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]
ENSMMUG0000007256 splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]
ENSMMUG0000007504 myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]
ENSMMUG0000007524 RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]
ENSMMUG0000007570 uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]

ENSMMUG0000007626 intersectin 1 [Source:VGNC Symbol;Acc:VGNC:73806]
ENSMMUG0000007783 isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]
ENSMMUG0000007821 ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]
ENSMMUG0000008009 family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]
ENSMMUG0000008212 tenomodulin [Source:VGNC Symbol;Acc:VGNC:79087]
ENSMMUG0000008214 nuclear export mediator factor [Source:VGNC Symbol;Acc:VGNC:84407]
ENSMMUG0000008228 unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]
ENSMMUG0000008525 minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]
ENSMMUG0000008632 myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]
ENSMMUG0000008710 protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]
ENSMMUG0000008718 zinc finger protein 280D [Source:NCBI gene;Acc:699509]
ENSMMUG0000008795 polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]
ENSMMUG0000008797 ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]
ENSMMUG0000008974 Fc receptor like 5 [Source:NCBI gene;Acc:718771]
ENSMMUG0000009001 transmembrane 131 like [Source:VGNC Symbol;Acc:VGNC:79781]
ENSMMUG0000009087 HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]
ENSMMUG0000009114 maestro heat like repeat family member 7 [Source:NCBI gene;Acc:715310]
ENSMMUG0000009319 transmembrane protein 161B [Source:VGNC Symbol;Acc:VGNC:84508]
ENSMMUG0000009520 gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]
ENSMMUG0000009536 makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]
ENSMMUG0000009694 solute carrier family 9 member A9 [Source:VGNC Symbol;Acc:VGNC:77747]
ENSMMUG0000009702 mutS homolog 5 [Source:NCBI gene;Acc:715494]
ENSMMUG0000009773 lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]
ENSMMUG0000009948 histone deacetylase 1 [Source:NCBI gene;Acc:708441]
ENSMMUG0000009951 MARCKS like 1 [Source:VGNC Symbol;Acc:VGNC:74723]
ENSMMUG0000010049 NOP9 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75216]
ENSMMUG0000010060 serine rich single-pass membrane protein 1 [Source:VGNC Symbol;Acc:VGNC:78014]
ENSMMUG0000010113 steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]
ENSMMUG0000010127 chitinase [Source:VGNC Symbol;Acc:VGNC:71540]
ENSMMUG0000010252 FERM and PDZ domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72802]
ENSMMUG0000010312 shroom family member 1 [Source:VGNC Symbol;Acc:VGNC:77299]
ENSMMUG0000010495 MAPK activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74654]
ENSMMUG0000010621 heart and neural crest derivatives expressed 1 [Source:VGNC Symbol;Acc:VGNC:73345]
ENSMMUG0000010648 DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]
ENSMMUG0000010682 fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]
ENSMMUG0000010689 fermitin family member 2 [Source:VGNC Symbol;Acc:VGNC:82144]
ENSMMUG0000010695 adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]
ENSMMUG0000010858 prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]
ENSMMUG0000010879 NAD kinase [Source:VGNC Symbol;Acc:VGNC:75047]
ENSMMUG0000011049 leucine rich repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:81087]
ENSMMUG0000011214 solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]
ENSMMUG0000011269 CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]
ENSMMUG0000011367 BUD23 rRNA methyltransferase and ribosome maturation factor [Source:VGNC Symbol;Acc:VGNC:70325]
ENSMMUG0000011386 GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]
ENSMMUG0000011555 interleukin 16 [Source:VGNC Symbol;Acc:VGNC:84355]
ENSMMUG0000011573 cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]
ENSMMUG0000011702 tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]
ENSMMUG0000011810 FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]
ENSMMUG0000011902 oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]
ENSMMUG0000011974 calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]
ENSMMUG0000012120 zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]

ENSMMUG00000012124 ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]
ENSMMUG00000012151 glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]
ENSMMUG00000012156 zinc finger CCHC-type containing 17 [Source:VGNC Symbol;Acc:VGNC:79840]
ENSMMUG00000012192 erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]
ENSMMUG00000012203 aryl hydrocarbon receptor [Source:NCBI gene;Acc:714254]
ENSMMUG00000012462 proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]
ENSMMUG00000012473 proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]
ENSMMUG00000012474 ring finger protein 31 [Source:NCBI gene;Acc:715239]
ENSMMUG00000012479 lysine demethylase 4A [Source:NCBI gene;Acc:701272]
ENSMMUG00000012480 REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]
ENSMMUG00000012481 importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]
ENSMMUG00000012561 NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]
ENSMMUG00000012576 sorting nexin 6 [Source:NCBI gene;Acc:693626]
ENSMMUG00000012615 pecanex 2 [Source:NCBI gene;Acc:712828]
ENSMMUG00000012690 myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]
ENSMMUG00000012781 muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]
ENSMMUG00000013008 cleavage stimulation factor subunit 2 [Source:VGNC Symbol;Acc:VGNC:71536]
ENSMMUG00000013047 S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]
ENSMMUG00000013302 family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]
ENSMMUG00000013848 fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]
ENSMMUG00000013862 ArfGAP with coiled-coil, ankyrin repeat and PH domains 3 [Source:VGNC Symbol;Acc:VGNC:69434]
ENSMMUG00000013907 ribosomal protein S27a [Source:NCBI gene;Acc:718909]
ENSMMUG00000013920 triggering receptor expressed on myeloid cells 2 [Source:VGNC Symbol;Acc:VGNC:79089]
ENSMMUG00000013940 kinesin family member 4A [Source:NCBI gene;Acc:695574]
ENSMMUG00000013943 glycerophosphodiester phosphodiesterase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72787]
ENSMMUG00000014002 cyclin dependent kinase 16 [Source:VGNC Symbol;Acc:VGNC:71160]
ENSMMUG00000014018 bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]
ENSMMUG00000014809 heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]
ENSMMUG00000014955 nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]
ENSMMUG00000014997 spalt like transcription factor 2 [Source:NCBI gene;Acc:708367]
ENSMMUG00000015000 SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]
ENSMMUG00000015002 chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]
ENSMMUG00000015004 TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]
ENSMMUG00000015168 transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]
ENSMMUG00000015238 O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]
ENSMMUG00000015309 F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]
ENSMMUG00000015311 leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]
ENSMMUG00000015375 cadherin EGF LAG seven-pass G-type receptor 2 [Source:VGNC Symbol;Acc:VGNC:71149]
ENSMMUG00000015380 proline and serine rich coiled-coil 1 [Source:VGNC Symbol;Acc:VGNC:76307]
ENSMMUG00000015577 RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]
ENSMMUG00000015590 siah E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77215]
ENSMMUG00000015619 ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]
ENSMMUG00000015634 centromere protein F [Source:VGNC Symbol;Acc:VGNC:71009]
ENSMMUG00000015640 AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]
ENSMMUG00000015661 protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]
ENSMMUG00000016093 adenosine deaminase RNA specific [Source:VGNC Symbol;Acc:VGNC:69502]
ENSMMUG00000016286 protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]
ENSMMUG00000016581 methyltransferase like 18 [Source:VGNC Symbol;Acc:VGNC:74606]
ENSMMUG00000016683 phosphorylated adaptor for RNA export [Source:NCBI gene;Acc:702980]
ENSMMUG00000016857 prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]
ENSMMUG00000016880 solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]

ENSMMUG00000016896 solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]
ENSMMUG00000016993 PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]
ENSMMUG00000017125 oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]
ENSMMUG00000017186 pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]
ENSMMUG00000017259 DnaJ heat shock protein family (Hsp40) member C6 [Source:NCBI gene;Acc:698682]
ENSMMUG00000017351 stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]
ENSMMUG00000017374 G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]
ENSMMUG00000017396 3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]
ENSMMUG00000017414 calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]
ENSMMUG00000017549 ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]
ENSMMUG00000017678 kelch like family member 28 [Source:VGNC Symbol;Acc:VGNC:74085]
ENSMMUG00000017703 collagen type XXV alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81374]
ENSMMUG00000018057 uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]
ENSMMUG00000018058 ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]
ENSMMUG00000018163 caspase 9 [Source:NCBI gene;Acc:694544]
ENSMMUG00000018332 family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]
ENSMMUG00000018342 required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]
ENSMMUG00000018346 coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]
ENSMMUG00000018625 NIPA like domain containing 1 [Source:NCBI gene;Acc:704998]
ENSMMUG00000018739 sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]
ENSMMUG00000018746 FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]
ENSMMUG00000018747 5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]
ENSMMUG00000018827 multiple EGF like domains 10 [Source:VGNC Symbol;Acc:VGNC:74617]
ENSMMUG00000018972 RNA polymerase III subunit G [Source:VGNC Symbol;Acc:VGNC:84480]
ENSMMUG00000018974 LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]
ENSMMUG00000018976 adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]
ENSMMUG00000019105 RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]
ENSMMUG00000019262 calcium voltage-gated channel subunit alpha1 D [Source:VGNC Symbol;Acc:VGNC:70501]
ENSMMUG00000019325 mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]
ENSMMUG00000019371 major histocompatibility complex, class II, DP alpha [Source:NCBI gene;Acc:717992]
ENSMMUG00000019836 myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]
ENSMMUG00000019977 myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]
ENSMMUG00000019978 HERV-H LTR-associating 2 [Source:VGNC Symbol;Acc:VGNC:73377]
ENSMMUG00000020047 integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]
ENSMMUG00000020184 carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]
ENSMMUG00000020289 CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]
ENSMMUG00000020348 BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]
ENSMMUG00000020435 amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]
ENSMMUG00000020731 terminal nucleotidyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:79637]
ENSMMUG00000021034 complement C6 [Source:VGNC Symbol;Acc:VGNC:70477]
ENSMMUG00000021053 annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]
ENSMMUG00000021078 ATPase Na⁺/K⁺ transporting subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70176]
ENSMMUG00000021145 family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]
ENSMMUG00000021242 natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]
ENSMMUG00000021243 zinc finger and BTB domain containing 47 [Source:VGNC Symbol;Acc:VGNC:79645]
ENSMMUG00000021244 kelch like family member 40 [Source:VGNC Symbol;Acc:VGNC:74165]
ENSMMUG00000021246 hedgehog acyltransferase like [Source:NCBI gene;Acc:717333]
ENSMMUG00000021499 sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]
ENSMMUG00000021507 chromosome 2 C3orf38 homolog [Source:VGNC Symbol;Acc:VGNC:70654]
ENSMMUG00000021534 solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]
ENSMMUG00000021552 RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]

ENSMMUG00000021572 solute carrier family 39 member 9 [Source:VGNC Symbol;Acc:VGNC:77523]
ENSMMUG00000021656 golgin subfamily A member 8S [Source:NCBI gene;Acc:722977]
ENSMMUG00000021772 nephrocystin 3 [Source:NCBI gene;Acc:717622]
ENSMMUG00000021837 seryl-tRNA synthetase 1 [Source:NCBI gene;Acc:695046]
ENSMMUG00000022153 solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]
ENSMMUG00000022183 spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]
ENSMMUG00000022191 laeverin [Source:VGNC Symbol;Acc:VGNC:74372]
ENSMMUG00000022199 polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]
ENSMMUG00000022324 formimidoyltransferase cyclodeaminase [Source:VGNC Symbol;Acc:VGNC:72825]
ENSMMUG00000022442 single stranded DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:77886]
ENSMMUG00000022484 ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]
ENSMMUG00000022624 putative speedy protein E16 [Source:NCBI gene;Acc:718058]
ENSMMUG00000022631 ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]
ENSMMUG00000022636 GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]
ENSMMUG00000022762 OMA1 zinc metallopeptidase [Source:VGNC Symbol;Acc:VGNC:75485]
ENSMMUG00000022963 solute carrier family 25 member 38 [Source:VGNC Symbol;Acc:VGNC:77571]
ENSMMUG00000022982 IQ motif containing GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:73756]
ENSMMUG00000023141 CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]
ENSMMUG00000023265 A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]
ENSMMUG00000023289 phospholipase D1 [Source:VGNC Symbol;Acc:VGNC:76171]
ENSMMUG00000023676 espin [Source:NCBI gene;Acc:722532]
ENSMMUG00000023679 tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]
ENSMMUG00000024125 small nucleolar RNA, H/ACA box 58 [Source:HGNC Symbol;Acc:HGNC:32652]
ENSMMUG00000024598 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000024966 U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]
ENSMMUG00000026103 U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]
ENSMMUG00000029475 zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]
ENSMMUG00000030099 phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]
ENSMMUG00000032252 UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]
ENSMMUG00000032427 neuroligin 3 [Source:NCBI gene;Acc:574216]
ENSMMUG00000032973 mml-mir-550 [Source:miRBase;Acc:MI0007826]
ENSMMUG00000037485
ENSMMUG00000037551 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000037625
ENSMMUG00000037806 chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]
ENSMMUG00000038070 T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]
ENSMMUG00000038389
ENSMMUG00000038560 eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]
ENSMMUG00000038667
ENSMMUG00000039020 zinc finger protein 141 [Source:NCBI gene;Acc:714265]
ENSMMUG00000039317 cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]
ENSMMUG00000039781 sosondowah ankyrin repeat domain family member A [Source:VGNC Symbol;Acc:VGNC:84498]
ENSMMUG00000039944 Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]
ENSMMUG00000040154 T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]
ENSMMUG00000040506 H2B clustered histone 18 [Source:HGNC Symbol;Acc:HGNC:24700]
ENSMMUG00000040694 LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]
ENSMMUG00000040771
ENSMMUG00000042299 DENN domain containing 2A [Source:VGNC Symbol;Acc:VGNC:81302]
ENSMMUG00000043001 milk fat globule EGF and factor V/VIII domain containing [Source:NCBI gene;Acc:703501]
ENSMMUG00000043161 endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]
ENSMMUG00000043229 carbohydrate sulfotransferase 14 [Source:NCBI gene;Acc:703115]

ENSMMUG00000043727 zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]
ENSMMUG00000044175 forkhead box O6 [Source:NCBI gene;Acc:697505]
ENSMMUG00000044628
ENSMMUG00000044759
ENSMMUG00000044958 adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]
ENSMMUG00000045584 leucine zipper protein 1 [Source:NCBI gene;Acc:718626]
ENSMMUG00000046428
ENSMMUG00000047741 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000047994 CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]
ENSMMUG00000048302 ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]
ENSMMUG00000048493 neuroblastoma breakpoint family member 6-like protein [Source:NCBI gene;Acc:711999]
ENSMMUG00000048823
ENSMMUG00000049196 dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]
ENSMMUG00000049351 MAGE family member E1 [Source:NCBI gene;Acc:705379]
ENSMMUG00000049437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049563
ENSMMUG00000049786
ENSMMUG00000049908 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050239
ENSMMUG00000050269 T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]
ENSMMUG00000050300
ENSMMUG00000050407
ENSMMUG00000050445 ribonuclease A family member 8 [Source:NCBI gene;Acc:716333]
ENSMMUG00000051020 zinc finger protein 467 [Source:NCBI gene;Acc:712106]
ENSMMUG00000051032 serine protease 2 [Source:NCBI gene;Acc:698352]
ENSMMUG00000051155 U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]
ENSMMUG00000051169
ENSMMUG00000051271
ENSMMUG00000051381 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051522 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051523 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051552
ENSMMUG00000051641
ENSMMUG00000051661
ENSMMUG00000052176
ENSMMUG00000052287
ENSMMUG00000052518 SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]
ENSMMUG00000052535
ENSMMUG00000052574
ENSMMUG00000052609 ribosomal protein L34 [Source:NCBI gene;Acc:696636]
ENSMMUG00000052682
ENSMMUG00000052830
ENSMMUG00000053323
ENSMMUG00000053344 splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]
ENSMMUG00000053384
ENSMMUG00000054116 T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]
ENSMMUG00000054302 antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]
ENSMMUG00000054315
ENSMMUG00000054417
ENSMMUG00000054590
ENSMMUG00000054615

ENSMMUG00000054793
ENSMMUG00000054817 immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]
ENSMMUG00000054821
ENSMMUG00000055117
ENSMMUG00000055207
ENSMMUG00000055229
ENSMMUG00000055244 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055271
ENSMMUG00000055272 putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]
ENSMMUG00000055392
ENSMMUG00000055481 regulator of G protein signaling 16 [Source:NCBI gene;Acc:715599]
ENSMMUG00000055585
ENSMMUG00000055759 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055809
ENSMMUG00000055835 nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]
ENSMMUG00000056103 growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]
ENSMMUG00000056116
ENSMMUG00000056363
ENSMMUG00000056369 SAP30 like [Source:NCBI gene;Acc:714400]
ENSMMUG00000056544
ENSMMUG00000056664 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000056687
ENSMMUG00000056737
ENSMMUG00000056790
ENSMMUG00000056910
ENSMMUG00000057338
ENSMMUG00000057494 T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]
ENSMMUG00000057544
ENSMMUG00000057606 GPRIN family member 3 [Source:NCBI gene;Acc:703567]
ENSMMUG00000057697
ENSMMUG00000057763
ENSMMUG00000057859
ENSMMUG00000058332 testis expressed 46 [Source:NCBI gene;Acc:709002]
ENSMMUG00000058580 tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]
ENSMMUG00000058698
ENSMMUG00000058974
ENSMMUG00000059019
ENSMMUG00000059080
ENSMMUG00000059101
ENSMMUG00000059241
ENSMMUG00000059525
ENSMMUG00000059659
ENSMMUG00000059707 MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]
ENSMMUG00000059922 family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]
ENSMMUG00000059938
ENSMMUG00000060011 hyaluronan and proteoglycan link protein 2 [Source:NCBI gene;Acc:718500]
ENSMMUG00000060221 growth differentiation factor 9 [Source:NCBI gene;Acc:712792]
ENSMMUG00000060278 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060319 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060503 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060505

ENSMMUG00000060744
ENSMMUG00000060798
ENSMMUG00000060830
ENSMMUG00000060892
ENSMMUG00000060894 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060940 acidic residue methyltransferase 1 [Source:NCBI gene;Acc:704570]
ENSMMUG00000061239
ENSMMUG00000061261 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061590
ENSMMUG00000061766
ENSMMUG00000061796
ENSMMUG00000061973
ENSMMUG00000062140
ENSMMUG00000062443
ENSMMUG00000062527
ENSMMUG00000062538 adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]
ENSMMUG00000063177 StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]
ENSMMUG00000063268
ENSMMUG00000063354
ENSMMUG00000063703
ENSMMUG00000064202
ENSMMUG00000064529
ENSMMUG00000064721
ENSMMUG00000064748 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064804
ENSMMUG00000065257
ENSMMUG00000000117 HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]
ENSMMUG00000000229 transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]
ENSMMUG00000000238 HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]
ENSMMUG00000000288 C-C motif chemokine ligand 2 [Source:VGNC Symbol;Acc:VGNC:70698]
ENSMMUG00000000388 plectin [Source:VGNC Symbol;Acc:VGNC:76173]
ENSMMUG00000000496 zinc finger and BTB domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79047]
ENSMMUG00000000797 exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]
ENSMMUG00000000974 mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]
ENSMMUG00000000981 T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]
ENSMMUG00000000982 protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]
ENSMMUG00000000983 aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]
ENSMMUG00000001040 nuclear GTPase, germinal center associated [Source:VGNC Symbol;Acc:VGNC:75497]
ENSMMUG00000001061 BICD cargo adaptor 2 [Source:VGNC Symbol;Acc:VGNC:70333]
ENSMMUG00000001121 zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]
ENSMMUG00000001172 spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]
ENSMMUG00000001357 tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]
ENSMMUG00000001800 cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]
ENSMMUG00000001940 NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]
ENSMMUG00000001942 mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]
ENSMMUG00000001995 chromosome 14 C11orf16 homolog [Source:NCBI gene;Acc:705319]
ENSMMUG00000002032 exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]
ENSMMUG00000002090 ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]
ENSMMUG00000002093 testis expressed 261 [Source:NCBI gene;Acc:703863]
ENSMMUG00000002103 delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]
ENSMMUG00000002109 proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]

ENSMMUG00000002113 NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]
ENSMMUG00000002166 tousled like kinase 2 [Source:VGNC Symbol;Acc:VGNC:78368]
ENSMMUG00000002182 phosphatidylserine decarboxylase [Source:VGNC Symbol;Acc:VGNC:76005]
ENSMMUG00000002183 oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]
ENSMMUG00000002250 beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]
ENSMMUG00000002321 solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]
ENSMMUG00000002549 trehalase [Source:NCBI gene;Acc:706449]
ENSMMUG00000002657 olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]
ENSMMUG00000002678 integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]
ENSMMUG00000002809 unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]
ENSMMUG00000003221 DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]
ENSMMUG00000003260
ENSMMUG00000003288 glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]
ENSMMUG00000003394 cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]
ENSMMUG00000003771 ubiquitin like 3 [Source:VGNC Symbol;Acc:VGNC:78701]
ENSMMUG00000003877 KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]
ENSMMUG00000003946 ADP-ribosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:69890]
ENSMMUG00000003973 autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]
ENSMMUG00000004153 ATM serine/threonine kinase [Source:VGNC Symbol;Acc:VGNC:70173]
ENSMMUG00000004157 nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]
ENSMMUG00000004205 phospholipase B domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76122]
ENSMMUG00000004215 LRAT domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74321]
ENSMMUG00000004237 TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]
ENSMMUG00000004386 sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]
ENSMMUG00000004387 ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]
ENSMMUG00000004412 arginine and serine rich coiled-coil 2 [Source:VGNC Symbol;Acc:VGNC:77139]
ENSMMUG00000004675 smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]
ENSMMUG00000004821 membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]
ENSMMUG00000004885 quiescin sulfhydryl oxidase 2 [Source:VGNC Symbol;Acc:VGNC:76568]
ENSMMUG00000004974 tripartite motif containing 21 [Source:VGNC Symbol;Acc:VGNC:78556]
ENSMMUG00000005067 elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]
ENSMMUG00000005204 VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]
ENSMMUG00000005246 zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]
ENSMMUG00000005295 parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]
ENSMMUG00000005301 ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]
ENSMMUG00000005751 adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]
ENSMMUG00000005851 B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]
ENSMMUG00000005895 nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]
ENSMMUG00000005913 activating transcription factor 7 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70103]
ENSMMUG00000006197 plasminogen receptor with a C-terminal lysine [Source:VGNC Symbol;Acc:VGNC:76098]
ENSMMUG00000006713 cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]
ENSMMUG00000006731 CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]
ENSMMUG00000006775 proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]
ENSMMUG00000007001 protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]
ENSMMUG00000007003 polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]
ENSMMUG00000007115 RALY RNA binding protein like [Source:VGNC Symbol;Acc:VGNC:82217]
ENSMMUG00000007187 haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]
ENSMMUG00000007313 histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]
ENSMMUG00000007325 Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]
ENSMMUG00000007326 ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]
ENSMMUG00000007330 nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]

ENSMMUG0000007411 integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]
ENSMMUG0000007424 nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]
ENSMMUG0000007620 transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]
ENSMMUG0000007628 cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]
ENSMMUG0000007692 apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]
ENSMMUG0000007709 crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]
ENSMMUG0000007724 aprataxin [Source:VGNC Symbol;Acc:VGNC:69838]
ENSMMUG0000007868 AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]
ENSMMUG0000007917 carbonic anhydrase 4 [Source:NCBI gene;Acc:716919]
ENSMMUG0000008113 pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]
ENSMMUG0000008199 leucine-rich repeat-containing protein 37A [Source:NCBI gene;Acc:714675]
ENSMMUG0000008346 structural maintenance of chromosomes 5 [Source:NCBI gene;Acc:702219]
ENSMMUG0000008459 pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]
ENSMMUG0000008539 uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]
ENSMMUG0000008540 ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]
ENSMMUG0000008643 general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]
ENSMMUG0000008867 exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]
ENSMMUG0000008941 DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]
ENSMMUG0000009038 titin [Source:NCBI gene;Acc:703527]
ENSMMUG0000009155 SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]
ENSMMUG0000009303 coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]
ENSMMUG0000009493 family with sequence similarity 120A [Source:NCBI gene;Acc:717459]
ENSMMUG0000009519 WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]
ENSMMUG0000009524 adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]
ENSMMUG0000009695 BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]
ENSMMUG0000009782 C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]
ENSMMUG0000009785 C-C motif chemokine ligand 13 [Source:VGNC Symbol;Acc:VGNC:70696]
ENSMMUG0000009831 TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]
ENSMMUG0000009965 chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]
ENSMMUG00000010050 small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]
ENSMMUG00000010405 family with sequence similarity 171 member B [Source:VGNC Symbol;Acc:VGNC:72404]
ENSMMUG00000010453 folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]
ENSMMUG00000010508 carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]
ENSMMUG00000010543 PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]
ENSMMUG00000010601 solute carrier family 43 member 3 [Source:NCBI gene;Acc:706267]
ENSMMUG00000010819 fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]
ENSMMUG00000010820 chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]
ENSMMUG00000010871 crystallin gamma B [Source:VGNC Symbol;Acc:VGNC:71507]
ENSMMUG00000010959 kelch like family member 9 [Source:VGNC Symbol;Acc:VGNC:74080]
ENSMMUG00000011116 NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]
ENSMMUG00000011183 olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]
ENSMMUG00000011282 DnaJ heat shock protein family (Hsp40) member C9 [Source:NCBI gene;Acc:707599]
ENSMMUG00000011401 amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]
ENSMMUG00000011593 regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]
ENSMMUG00000011811 anoctamin 6 [Source:VGNC Symbol;Acc:VGNC:69902]
ENSMMUG00000011845 hexokinase 2 [Source:VGNC Symbol;Acc:VGNC:73475]
ENSMMUG00000011986 chibby family member 2 [Source:VGNC Symbol;Acc:VGNC:78029]
ENSMMUG00000012029 sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]
ENSMMUG00000012056 structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]
ENSMMUG00000012058 GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]
ENSMMUG00000012290 GLIPR1 like 2 [Source:VGNC Symbol;Acc:VGNC:81413]

ENSMMUG00000012449 synaptotagmin like 2 [Source:VGNC Symbol;Acc:VGNC:78123]
ENSMMUG00000012486 retinoic acid receptor alpha [Source:VGNC Symbol;Acc:VGNC:76662]
ENSMMUG00000012778 rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]
ENSMMUG00000013093 uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]
ENSMMUG00000013094 lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]
ENSMMUG00000013345 folliculin [Source:NCBI gene;Acc:698082]
ENSMMUG00000013476 PHD finger protein 11 [Source:VGNC Symbol;Acc:VGNC:75814]
ENSMMUG00000013501 CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]
ENSMMUG00000013503 mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]
ENSMMUG00000013510 FMR1 autosomal homolog 2 [Source:NCBI gene;Acc:721889]
ENSMMUG00000013552 scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]
ENSMMUG00000013643 zinc finger CCHC-type containing 8 [Source:VGNC Symbol;Acc:VGNC:79487]
ENSMMUG00000013666 copine 8 [Source:NCBI gene;Acc:114669741]
ENSMMUG00000013707 heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]
ENSMMUG00000013799 ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]
ENSMMUG00000013812 ubiquitin specific peptidase 44 [Source:VGNC Symbol;Acc:VGNC:79221]
ENSMMUG00000014027 nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]
ENSMMUG00000014049 collagen type VI alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:71303]
ENSMMUG00000014307 myostatin [Source:VGNC Symbol;Acc:VGNC:74870]
ENSMMUG00000014314 ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]
ENSMMUG00000014334 dopamine receptor D2 [Source:VGNC Symbol;Acc:VGNC:71989]
ENSMMUG00000014350 MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]
ENSMMUG00000014394 DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]
ENSMMUG00000014424 ADP ribosylation factor guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:69834]
ENSMMUG00000014484 zinc finger protein 641 [Source:NCBI gene;Acc:708246]
ENSMMUG00000014672 mitogen-activated protein kinase kinase kinase 20 [Source:NCBI gene;Acc:698274]
ENSMMUG00000014685 pyruvate dehydrogenase kinase 2 [Source:VGNC Symbol;Acc:VGNC:75933]
ENSMMUG00000014687 sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]
ENSMMUG00000015117 X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]
ENSMMUG00000015141 ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]
ENSMMUG00000015143 F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]
ENSMMUG00000015151 interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]
ENSMMUG00000015279 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]
ENSMMUG00000015522 GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]
ENSMMUG00000015550 PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]
ENSMMUG00000015962 AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]
ENSMMUG00000015970 coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]
ENSMMUG00000016018 establishment of sister chromatid cohesion N-acetyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:72374]
ENSMMUG00000016077 isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]
ENSMMUG00000016262 tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]
ENSMMUG00000016314 family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]
ENSMMUG00000016316 testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]
ENSMMUG00000016331 glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]
ENSMMUG00000016543 CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]
ENSMMUG00000016717 polycystin 1 like 3, transient receptor potential channel interacting [Source:VGNC Symbol;Acc:VGNC:75846]
ENSMMUG00000016791 doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]
ENSMMUG00000016845 zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]
ENSMMUG00000016871 alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]
ENSMMUG00000016927 solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]
ENSMMUG00000016983 acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]
ENSMMUG00000017113 ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]

ENSMMUG00000017143 LDL receptor related protein 2 [Source:VGNC Symbol;Acc:VGNC:81430]
ENSMMUG00000017145 cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]
ENSMMUG00000017173 heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]
ENSMMUG00000017204 programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]
ENSMMUG00000017206 SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]
ENSMMUG00000017207 dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]
ENSMMUG00000017210 sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]
ENSMMUG00000017230 V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]
ENSMMUG00000017234 leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]
ENSMMUG00000017252 spermatogenesis associated 20 [Source:VGNC Symbol;Acc:VGNC:77993]
ENSMMUG00000017524 phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]
ENSMMUG00000017628 pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]
ENSMMUG00000017892 RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]
ENSMMUG00000017931 gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]
ENSMMUG00000017932 acyl-CoA synthetase short chain family member 2 [Source:VGNC Symbol;Acc:VGNC:69410]
ENSMMUG00000018356 flagellum associated containing coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:72508]
ENSMMUG00000018358 zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]
ENSMMUG00000018474 signal regulatory protein alpha [Source:NCBI gene;Acc:717811]
ENSMMUG00000018685 chromodomain helicase DNA binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71029]
ENSMMUG00000018901 FYVE, RhoGEF and PH domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72548]
ENSMMUG00000019423 zinc finger protein 2 [Source:NCBI gene;Acc:703864]
ENSMMUG00000019639 paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]
ENSMMUG00000019831 neurobeachin [Source:NCBI gene;Acc:714386]
ENSMMUG00000019850 arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]
ENSMMUG00000019883 RNA binding motif protein 20 [Source:NCBI gene;Acc:698677]
ENSMMUG00000020036 Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]
ENSMMUG00000020061 protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]
ENSMMUG00000020125 SUMO specific peptidase 1 [Source:NCBI gene;Acc:707603]
ENSMMUG00000020211 cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]
ENSMMUG00000020370 SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]
ENSMMUG00000020533 chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]
ENSMMUG00000020540 NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]
ENSMMUG00000020706 ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]
ENSMMUG00000020784 centrosomal protein 126 [Source:NCBI gene;Acc:701911]
ENSMMUG00000020792 Rap guanine nucleotide exchange factor 4 [Source:VGNC Symbol;Acc:VGNC:76490]
ENSMMUG00000020812 A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]
ENSMMUG00000020819 protein phosphatase 2 catalytic subunit beta [Source:VGNC Symbol;Acc:VGNC:76373]
ENSMMUG00000020821 testis expressed 15, meiosis and synapsis associated [Source:VGNC Symbol;Acc:VGNC:78318]
ENSMMUG00000020847 CKLF like MARVEL transmembrane domain containing 3 [Source:VGNC Symbol;Acc:VGNC:71215]
ENSMMUG00000020926 syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]
ENSMMUG00000020928 nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]
ENSMMUG00000020992 calcineurin binding protein 1 [Source:NCBI gene;Acc:700566]
ENSMMUG00000020993 cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]
ENSMMUG00000021091 COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]
ENSMMUG00000021197 TBC1 domain family member 4 [Source:VGNC Symbol;Acc:VGNC:78166]
ENSMMUG00000021280 leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]
ENSMMUG00000021282 late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]
ENSMMUG00000021331 EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]
ENSMMUG00000021393 calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]
ENSMMUG00000021459 MYC binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75011]
ENSMMUG00000021496 potassium sodium-activated channel subfamily T member 1 [Source:VGNC Symbol;Acc:VGNC:73856]

ENSMMUG00000021670 solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]
ENSMMUG00000021878 timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]
ENSMMUG00000022185 odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]
ENSMMUG00000022202 basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]
ENSMMUG00000022430 splicing factor 3b subunit 1 [Source:VGNC Symbol;Acc:VGNC:77179]
ENSMMUG00000022553 pyruvate dehydrogenase kinase 1 [Source:VGNC Symbol;Acc:VGNC:75932]
ENSMMUG00000022589 prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]
ENSMMUG00000022602 methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]
ENSMMUG00000022676 ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]
ENSMMUG00000022680 alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]
ENSMMUG00000022865 junctophilin 2 [Source:NCBI gene;Acc:694158]
ENSMMUG00000022879 EARP complex and GARP complex interacting protein 1 [Source:NCBI gene;Acc:707650]
ENSMMUG00000023083 A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]
ENSMMUG00000023248 serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]
ENSMMUG00000023249 aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]
ENSMMUG00000023446 tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]
ENSMMUG00000023752 SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]
ENSMMUG00000023778 F-box protein 32 [Source:VGNC Symbol;Acc:VGNC:72517]
ENSMMUG00000023791 SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]
ENSMMUG00000023803 myosin heavy chain 10 [Source:NCBI gene;Acc:721979]
ENSMMUG00000023810 methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]
ENSMMUG00000025616
ENSMMUG00000026432 small nucleolar RNA, C/D box 7 [Source:HGNC Symbol;Acc:HGNC:32704]
ENSMMUG00000026876 mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]
ENSMMUG00000028701
ENSMMUG00000029164 glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]
ENSMMUG00000030453 NLR family pyrin domain containing 1 [Source:NCBI gene;Acc:721648]
ENSMMUG00000031000 Rho GTPase activating protein 8 [Source:NCBI gene;Acc:716745]
ENSMMUG00000031202 RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]
ENSMMUG00000031296 caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]
ENSMMUG00000031736
ENSMMUG00000031965 aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]
ENSMMUG00000032892 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000033001 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000037662 selenoprotein M [Source:NCBI gene;Acc:718290]
ENSMMUG00000037675 testis expressed 52 [Source:NCBI gene;Acc:107000723]
ENSMMUG00000038288 TMEM9 domain family member B [Source:NCBI gene;Acc:708447]
ENSMMUG00000038587 prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]
ENSMMUG00000038661
ENSMMUG00000039300
ENSMMUG00000040854 aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]
ENSMMUG00000041775 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000041905 protein phosphatase 2 regulatory subunit Balpha [Source:VGNC Symbol;Acc:VGNC:84103]
ENSMMUG00000042208 pepsin A-4 [Source:NCBI gene;Acc:694646]
ENSMMUG00000042668 cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]
ENSMMUG00000043411 zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]
ENSMMUG00000043458 transmembrane protein 178A [Source:NCBI gene;Acc:714010]
ENSMMUG00000043682 mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]
ENSMMUG00000044214
ENSMMUG00000044537 DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]
ENSMMUG00000044782

ENSMMUG00000045775 macrophage expressed 1 [Source:NCBI gene;Acc:700274]
ENSMMUG00000046464 coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]
ENSMMUG00000046655 pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]
ENSMMUG00000047974 aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]
ENSMMUG00000048322 eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]
ENSMMUG00000049117 CLLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]
ENSMMUG00000049539
ENSMMUG00000049661 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049682 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000049788
ENSMMUG00000049842
ENSMMUG00000049948
ENSMMUG00000049997
ENSMMUG00000050245
ENSMMUG00000050271
ENSMMUG00000050458
ENSMMUG00000050544
ENSMMUG00000050630
ENSMMUG00000050773
ENSMMUG00000050923
ENSMMUG00000050952
ENSMMUG00000050975
ENSMMUG00000051001
ENSMMUG00000051042
ENSMMUG00000051112 p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]
ENSMMUG00000051162
ENSMMUG00000051190 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051468 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051482
ENSMMUG00000051936
ENSMMUG00000051999
ENSMMUG00000052031
ENSMMUG00000052169 potassium two pore domain channel subfamily K member 12 [Source:NCBI gene;Acc:715556]
ENSMMUG00000052377
ENSMMUG00000052460
ENSMMUG00000052526 RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]
ENSMMUG00000052642 protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]
ENSMMUG00000052676
ENSMMUG00000052817 Sp7 transcription factor [Source:NCBI gene;Acc:702575]
ENSMMUG00000052889 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000053577
ENSMMUG00000053648 actin binding transcription modulator [Source:NCBI gene;Acc:710486]
ENSMMUG00000053657
ENSMMUG00000053721
ENSMMUG00000053845
ENSMMUG00000054064
ENSMMUG00000054210 C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]
ENSMMUG00000054462
ENSMMUG00000054660 R-spondin 2 [Source:NCBI gene;Acc:697376]
ENSMMUG00000054711
ENSMMUG00000055344 TLC domain containing 3A [Source:NCBI gene;Acc:699707]

ENSMMUG00000055400 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000055447 MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]
ENSMMUG00000055477
ENSMMUG00000055529 sulfotransferase family 1C member 4 [Source:NCBI gene;Acc:693903]
ENSMMUG00000055610 homeobox C4 [Source:NCBI gene;Acc:100430434]
ENSMMUG00000055845 ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]
ENSMMUG00000056045
ENSMMUG00000056054 zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]
ENSMMUG00000056056
ENSMMUG00000056113
ENSMMUG00000056165
ENSMMUG00000056303
ENSMMUG00000056306
ENSMMUG00000056387 transcription factor 15 [Source:NCBI gene;Acc:716916]
ENSMMUG00000056662
ENSMMUG00000056824
ENSMMUG00000057031
ENSMMUG00000057143 transmembrane protein 127 [Source:NCBI gene;Acc:705069]
ENSMMUG00000057199
ENSMMUG00000057302
ENSMMUG00000057747
ENSMMUG00000057793 dual specificity phosphatase 5 [Source:NCBI gene;Acc:698178]
ENSMMUG00000058016 bMERB domain containing 1 [Source:NCBI gene;Acc:713757]
ENSMMUG00000058240
ENSMMUG00000058281 ITPRIP like 2 [Source:NCBI gene;Acc:694060]
ENSMMUG00000058603
ENSMMUG00000058754
ENSMMUG00000058933
ENSMMUG00000058942
ENSMMUG00000059038 5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]
ENSMMUG00000059115
ENSMMUG00000059267 pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]
ENSMMUG00000059353 phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]
ENSMMUG00000059406 RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]
ENSMMUG00000059464
ENSMMUG00000059575
ENSMMUG00000059824
ENSMMUG00000059850 immunoglobulin kappa variable 1-9 [Source:NCBI gene;Acc:106993071]
ENSMMUG00000059852
ENSMMUG00000060024
ENSMMUG00000060062
ENSMMUG00000060080 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000060158
ENSMMUG00000060346
ENSMMUG00000060359
ENSMMUG00000060579
ENSMMUG00000060665
ENSMMUG00000060713 epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]
ENSMMUG00000060836
ENSMMUG00000060932 zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]
ENSMMUG00000061260 Spi-C transcription factor [Source:NCBI gene;Acc:695809]

ENSMMUG00000061268 PLAG1 zinc finger [Source:NCBI gene;Acc:696149]
ENSMMUG00000061344
ENSMMUG00000061408
ENSMMUG00000061594
ENSMMUG00000061761 interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]
ENSMMUG00000061774 taste 2 receptor member 10 [Source:NCBI gene;Acc:717960]
ENSMMUG00000061779
ENSMMUG00000061953
ENSMMUG00000062461 chromosome 15 C9orf43 homolog [Source:NCBI gene;Acc:704968]
ENSMMUG00000062791
ENSMMUG00000062793
ENSMMUG00000063345
ENSMMUG00000063463
ENSMMUG00000063668 cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]
ENSMMUG00000063718 Kruppel like factor 9 [Source:NCBI gene;Acc:700585]
ENSMMUG00000064089
ENSMMUG00000064158
ENSMMUG00000064216
ENSMMUG00000064237
ENSMMUG00000064793 C-C motif chemokine ligand 11 [Source:NCBI gene;Acc:574218]
ENSMMUG00000064798
ENSMMUG00000065099
ENSMMUG00000065232
ENSMMUG00000000717 CD3e molecule associated protein [Source:NCBI gene;Acc:714440]
ENSMMUG00000000718 ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]
ENSMMUG00000001245 zinc finger protein 532 [Source:NCBI gene;Acc:701146]
ENSMMUG00000002742 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]
ENSMMUG00000003302 dystrobrevin alpha [Source:VGNC Symbol;Acc:VGNC:72007]
ENSMMUG00000003621 AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]
ENSMMUG00000003712 zinc finger protein 615 [Source:VGNC Symbol;Acc:VGNC:79454]
ENSMMUG00000005727 protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]
ENSMMUG00000006128 peptidase D [Source:VGNC Symbol;Acc:VGNC:82205]
ENSMMUG00000006857 epididymal sperm binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72046]
ENSMMUG00000006866 CUGBP Elav-like family member 4 [Source:VGNC Symbol;Acc:VGNC:70945]
ENSMMUG00000007816 SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]
ENSMMUG00000008942 carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]
ENSMMUG00000008945 zinc finger protein 407 [Source:NCBI gene;Acc:695303]
ENSMMUG00000009222 pleckstrin homology domain containing A4 [Source:VGNC Symbol;Acc:VGNC:76027]
ENSMMUG00000013053 sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]
ENSMMUG00000014735 carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]
ENSMMUG00000015702 divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]
ENSMMUG00000016526 solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]
ENSMMUG00000017243 ring finger protein 165 [Source:VGNC Symbol;Acc:VGNC:76877]
ENSMMUG00000017246 lipoxxygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]
ENSMMUG00000017615 zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]
ENSMMUG00000017939 FA core complex associated protein 24 [Source:VGNC Symbol;Acc:VGNC:72388]
ENSMMUG00000018415 Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]
ENSMMUG00000019265 zinc finger protein 575 [Source:VGNC Symbol;Acc:VGNC:79667]
ENSMMUG00000019892 myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]
ENSMMUG00000020114 cadherin 13 [Source:VGNC Symbol;Acc:VGNC:70807]
ENSMMUG00000020175 mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]

ENSMMUG00000020905 chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]
ENSMMUG00000021094 desmoglein 3 [Source:VGNC Symbol;Acc:VGNC:72003]
ENSMMUG00000021095 desmoglein 2 [Source:VGNC Symbol;Acc:VGNC:72002]
ENSMMUG00000022163 solute carrier family 1 member 5 [Source:VGNC Symbol;Acc:VGNC:77413]
ENSMMUG00000022305 Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]
ENSMMUG00000022625 periaxin [Source:VGNC Symbol;Acc:VGNC:76248]
ENSMMUG00000022656 perilipin 4 [Source:NCBI gene;Acc:693610]
ENSMMUG00000022724
ENSMMUG00000022726 dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]
ENSMMUG00000022975 sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]
ENSMMUG00000023137 zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]
ENSMMUG00000028736 hydroxysteroid 17-beta dehydrogenase 14 [Source:NCBI gene;Acc:106994816]
ENSMMUG00000028800 solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]
ENSMMUG00000028925 HDGF like 2 [Source:NCBI gene;Acc:693476]
ENSMMUG00000033290 mml-mir-643 [Source:miRBase;Acc:MI0007886]
ENSMMUG00000041450 zinc finger protein 432 [Source:NCBI gene;Acc:100424341]
ENSMMUG00000042707 angiopoietin like 6 [Source:NCBI gene;Acc:106994633]
ENSMMUG00000049194
ENSMMUG00000049523 ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]
ENSMMUG00000050177
ENSMMUG00000051115
ENSMMUG00000051261
ENSMMUG00000051966
ENSMMUG00000052277 transthyretin [Source:NCBI gene;Acc:705943]
ENSMMUG00000052605 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000053008
ENSMMUG00000053624
ENSMMUG00000053889 olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]
ENSMMUG00000058864
ENSMMUG00000060455
ENSMMUG00000060536
ENSMMUG00000061186
ENSMMUG00000061372
ENSMMUG00000061536
ENSMMUG00000061572 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062866
ENSMMUG00000065131

C. Up-regulated common and unique gene names in Venn Diagram

Names	total	elements	description
NS_D1 NS_D2 NS_D3 S_D1 S_D2 S_D3	471	ENSMMUG00000062454	
		ENSMMUG00000049267	
		ENSMMUG00000013832	ATP binding cassette subfamily B member 11 [Source:VGNC Symbol;Acc:VGNC:81339]
		ENSMMUG00000003348	neurofilament light [Source:VGNC Symbol;Acc:VGNC:75307]
		ENSMMUG00000016143	sialophorin [Source:VGNC Symbol;Acc:VGNC:77861]
		ENSMMUG00000005666	phospholipase D2 [Source:VGNC Symbol;Acc:VGNC:76172]
		ENSMMUG00000008854	natural cytotoxicity triggering receptor 3 [Source:VGNC Symbol;Acc:VGNC:74990]
		ENSMMUG00000003819	nitric oxide synthase interacting protein [Source:VGNC Symbol;Acc:VGNC:75207]
		ENSMMUG00000059175	
		ENSMMUG00000021661	leucine rich repeat containing 56 [Source:VGNC Symbol;Acc:VGNC:74356]
		ENSMMUG00000019363	synapse associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78135]
		ENSMMUG00000041376	G antigen 10 [Source:NCBI gene;Acc:693330]
		ENSMMUG00000009559	minichromosome maintenance complex binding protein [Source:VGNC Symbol;Acc:VGNC:74583]
		ENSMMUG00000014046	SREBF chaperone [Source:VGNC Symbol;Acc:VGNC:77140]
		ENSMMUG00000001472	TIA1 cytotoxic granule associated RNA binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:78354]
		ENSMMUG00000004797	CTP synthase 2 [Source:VGNC Symbol;Acc:VGNC:71550]
		ENSMMUG00000000706	filamin B [Source:VGNC Symbol;Acc:VGNC:72672]
		ENSMMUG00000015479	tectonin beta-propeller repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:79348]
		ENSMMUG00000062283	homeobox B6 [Source:NCBI gene;Acc:106994013]
		ENSMMUG00000017056	Sad1 and UNC84 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78161]
		ENSMMUG00000011427	syntaxin 10 [Source:VGNC Symbol;Acc:VGNC:78040]
		ENSMMUG00000007528	chordin [Source:VGNC Symbol;Acc:VGNC:71042]
		ENSMMUG00000030279	A-kinase anchoring protein 10 [Source:VGNC Symbol;Acc:VGNC:69764]
		ENSMMUG00000000327	fatty acid desaturase 2 [Source:VGNC Symbol;Acc:VGNC:72472]
		ENSMMUG00000012228	ubiquitin conjugating enzyme E2 V1 [Source:NCBI gene;Acc:100425552]
		ENSMMUG00000063898	apolipoprotein F [Source:NCBI gene;Acc:712761]
		ENSMMUG00000004149	eukaryotic translation initiation factor 4 gamma 3 [Source:NCBI gene;Acc:717555]
		ENSMMUG00000011798	eukaryotic translation initiation factor 3 subunit C [Source:NCBI gene;Acc:705696]
		ENSMMUG00000060517	
		ENSMMUG00000002423	DNA polymerase delta 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76203]
		ENSMMUG00000064052	CD300 molecule like family member d [Source:NCBI gene;Acc:703142]
		ENSMMUG00000019314	vav guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:78757]
		ENSMMUG00000015931	phosphatidylinositol transfer protein membrane associated 2 [Source:VGNC Symbol;Acc:VGNC:75843]
		ENSMMUG00000020462	CD300e molecule [Source:NCBI gene;Acc:114673189]
		ENSMMUG00000002260	protein kinase C eta [Source:VGNC Symbol;Acc:VGNC:84424]
		ENSMMUG00000053481	
		ENSMMUG00000012937	proline rich 12 [Source:NCBI gene;Acc:719344]
		ENSMMUG00000014658	ninein [Source:VGNC Symbol;Acc:VGNC:75177]
		ENSMMUG00000052607	
		ENSMMUG00000063495	
		ENSMMUG00000009567	glyoxylate reductase 1 homolog [Source:NCBI gene;Acc:706933]
		ENSMMUG00000012944	vascular endothelial growth factor B [Source:VGNC Symbol;Acc:VGNC:78765]
		ENSMMUG00000048204	ephrin B3 [Source:NCBI gene;Acc:716257]
		ENSMMUG00000013798	fatty acid desaturase 1 [Source:VGNC Symbol;Acc:VGNC:72471]
		ENSMMUG00000023263	mediator complex subunit 15 [Source:VGNC Symbol;Acc:VGNC:74511]
		ENSMMUG00000046169	
		ENSMMUG00000004022	zinc finger SWIM-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79908]

ENSMMUG00000023303 ecotropic viral integration site 5 like [Source:NCBI gene;Acc:706628]
ENSMMUG00000012697 AT-rich interaction domain 1A [Source:VGNC Symbol;Acc:VGNC:69822]
ENSMMUG00000003437 signal transducer and activator of transcription 5B [Source:NCBI gene;Acc:709760]
ENSMMUG000000059504
ENSMMUG00000021564 lysine demethylase 2B [Source:VGNC Symbol;Acc:VGNC:81425]
ENSMMUG00000053324 lymphocyte antigen 6 complex locus protein G6d [Source:NCBI gene;Acc:715304]
ENSMMUG00000020868 homeobox B8 [Source:VGNC Symbol;Acc:VGNC:73505]
ENSMMUG00000057157
ENSMMUG00000046969 Fc receptor like 3 [Source:NCBI gene;Acc:718801]
ENSMMUG00000023286 UPF1 RNA helicase and ATPase [Source:VGNC Symbol;Acc:VGNC:79971]
ENSMMUG00000014530 pre-mRNA processing factor 19 [Source:VGNC Symbol;Acc:VGNC:76281]
ENSMMUG00000028907 insulin receptor [Source:NCBI gene;Acc:706009]
ENSMMUG00000049678
ENSMMUG00000016549 matrix metalloproteinase 9 [Source:VGNC Symbol;Acc:VGNC:74903]
ENSMMUG00000058592
ENSMMUG00000014874 GTP binding protein 8 (putative) [Source:VGNC Symbol;Acc:VGNC:84180]
ENSMMUG00000006738 L3MBTL histone methyl-lysine binding protein 1 [Source:NCBI gene;Acc:695694]
ENSMMUG00000053083 C2 calcium dependent domain containing 4C [Source:NCBI gene;Acc:100424440]
ENSMMUG00000018790 activin A receptor type 2B [Source:VGNC Symbol;Acc:VGNC:69450]
ENSMMUG00000014265 TAP binding protein like [Source:NCBI gene;Acc:712626]
ENSMMUG00000019418 erythrocyte membrane protein band 4.1 like 3 [Source:VGNC Symbol;Acc:VGNC:72233]
ENSMMUG00000003106 SEC16 homolog A, endoplasmic reticulum export factor [Source:VGNC Symbol;Acc:VGNC:77326]
ENSMMUG00000008791 CD47 molecule [Source:VGNC Symbol;Acc:VGNC:70767]
ENSMMUG00000003098 peptidase, mitochondrial processing alpha subunit [Source:VGNC Symbol;Acc:VGNC:76062]
ENSMMUG00000002427 glucokinase [Source:VGNC Symbol;Acc:VGNC:72901]
ENSMMUG00000032249 procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:NCBI gene;Acc:722763]
ENSMMUG00000059436 interleukin 10 receptor subunit alpha [Source:NCBI gene;Acc:704383]
ENSMMUG00000057539
ENSMMUG00000001350 HERPUD family member 2 [Source:VGNC Symbol;Acc:VGNC:73216]
ENSMMUG00000063525
ENSMMUG00000048375 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055322 EPH receptor A1 [Source:NCBI gene;Acc:706295]
ENSMMUG00000050549 lysyl oxidase like 2 [Source:NCBI gene;Acc:710151]
ENSMMUG00000006468 FGFR1 oncogene partner 2 [Source:VGNC Symbol;Acc:VGNC:72551]
ENSMMUG00000022247 osteoclastogenesis associated transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:75664]
ENSMMUG00000052252 protein phosphatase 1 regulatory subunit 3F [Source:NCBI gene;Acc:715950]
ENSMMUG00000000421 nuclear receptor subfamily 3 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75515]
ENSMMUG00000000419 Rho GTPase activating protein 26 [Source:VGNC Symbol;Acc:VGNC:69846]
ENSMMUG00000016582 chromosome 1 C1orf112 homolog [Source:VGNC Symbol;Acc:VGNC:70385]
ENSMMUG00000020254 exocyst complex component 3 like 1 [Source:VGNC Symbol;Acc:VGNC:72376]
ENSMMUG00000052854 mucin like 1 [Source:NCBI gene;Acc:100423942]
ENSMMUG00000058928 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055820
ENSMMUG00000063779
ENSMMUG00000001725 solute carrier family 35 member A4 [Source:VGNC Symbol;Acc:VGNC:77532]
ENSMMUG00000051037
ENSMMUG00000058187
ENSMMUG00000049735 allograft inflammatory factor 1 [Source:NCBI gene;Acc:574115]
ENSMMUG00000053013
ENSMMUG00000062091
ENSMMUG00000007423 transcription factor Dp-1 [Source:NCBI gene;Acc:715345]

ENSMMUG00000060795
ENSMMUG00000054414
ENSMMUG00000058566
ENSMMUG00000057687
ENSMMUG00000000649 UBX domain protein 11 [Source:VGNC Symbol;Acc:VGNC:79859]
ENSMMUG00000008385 NOP14 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75194]
ENSMMUG00000013150 MORC family CW-type zinc finger 4 [Source:VGNC Symbol;Acc:VGNC:74808]
ENSMMUG00000019089 centromere protein E [Source:VGNC Symbol;Acc:VGNC:71008]
ENSMMUG00000004794 DNA ligase 3 [Source:VGNC Symbol;Acc:VGNC:74266]
ENSMMUG00000020683 RNA binding motif protein 22 [Source:VGNC Symbol;Acc:VGNC:76535]
ENSMMUG00000005070 ecotropic viral integration site 5 [Source:NCBI gene;Acc:706592]
ENSMMUG00000006786 protein tyrosine phosphatase non-receptor type 22 [Source:VGNC Symbol;Acc:VGNC:76603]
ENSMMUG00000014237 lysine methyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:74110]
ENSMMUG00000053376
ENSMMUG00000009988 transmembrane protein 59 like [Source:VGNC Symbol;Acc:VGNC:78919]
ENSMMUG00000054158 acyl-CoA dehydrogenase family member 11 [Source:NCBI gene;Acc:106997118]
ENSMMUG00000022728 zinc finger and SCAN domain containing 25 [Source:VGNC Symbol;Acc:VGNC:79344]
ENSMMUG00000056840
ENSMMUG00000018237 plexin C1 [Source:VGNC Symbol;Acc:VGNC:76190]
ENSMMUG00000021073 RAS protein activator like 2 [Source:VGNC Symbol;Acc:VGNC:76670]
ENSMMUG00000019246 regulator of calcineurin 2 [Source:VGNC Symbol;Acc:VGNC:82092]
ENSMMUG00000056950
ENSMMUG00000051925
ENSMMUG00000056376
ENSMMUG00000010028 leucine zipper tumor suppressor family member 3 [Source:VGNC Symbol;Acc:VGNC:74403]
ENSMMUG00000048824 eva-1 homolog C [Source:NCBI gene;Acc:708681]
ENSMMUG00000052168
ENSMMUG00000049703 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000054052 sialic acid binding Ig like lectin 11 [Source:NCBI gene;Acc:719127]
ENSMMUG00000017660
ENSMMUG00000061098
ENSMMUG00000065025
ENSMMUG00000022613 reversion inducing cysteine rich protein with kazal motifs [Source:VGNC Symbol;Acc:VGNC:76722]
ENSMMUG00000008080 ATP binding cassette subfamily G member 5 [Source:VGNC Symbol;Acc:VGNC:69391]
ENSMMUG00000010451 inositol polyphosphate phosphatase like 1 [Source:VGNC Symbol;Acc:VGNC:73752]
ENSMMUG00000001387 p21 (RAC1) activated kinase 1 [Source:NCBI gene;Acc:698585]
ENSMMUG00000012668 centriolin [Source:VGNC Symbol;Acc:VGNC:71204]
ENSMMUG00000009886 Coenzyme A synthase [Source:VGNC Symbol;Acc:VGNC:81373]
ENSMMUG00000050543
ENSMMUG00000016438 protein kinase D3 [Source:VGNC Symbol;Acc:VGNC:76415]
ENSMMUG00000021988 N-alpha-acetyltransferase 11, NatA catalytic subunit [Source:NCBI gene;Acc:696758]
ENSMMUG00000003167 cytohesin 3 [Source:VGNC Symbol;Acc:VGNC:71829]
ENSMMUG00000050505 small integral membrane protein 4 [Source:NCBI gene;Acc:696553]
ENSMMUG00000007201 PDS5 cohesin associated factor B [Source:VGNC Symbol;Acc:VGNC:75835]
ENSMMUG00000000302 WD repeat and HMG-box DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79376]
ENSMMUG00000011627 interleukin 4 induced 1 [Source:VGNC Symbol;Acc:VGNC:73625]
ENSMMUG00000000754 Dmx like 2 [Source:VGNC Symbol;Acc:VGNC:71936]
ENSMMUG00000001058 tetratricopeptide repeat domain 28 [Source:VGNC Symbol;Acc:VGNC:79785]
ENSMMUG00000022409 solute carrier family 10 member 1 [Source:VGNC Symbol;Acc:VGNC:77380]
ENSMMUG00000011411 sperm acrosome associated 3 [Source:VGNC Symbol;Acc:VGNC:77930]
ENSMMUG00000017758 mitogen-activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74646]

ENSMMUG00000046774 RAS like proto-oncogene B [Source:NCBI gene;Acc:695852]
ENSMMUG00000013713 beta 3-glycosyltransferase [Source:NCBI gene;Acc:713498]
ENSMMUG00000031291 regulator of G protein signaling like 1 [Source:NCBI gene;Acc:715693]
ENSMMUG00000064920
ENSMMUG00000008070 YEATS domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79502]
ENSMMUG00000044817 nucleoporin 62 [Source:NCBI gene;Acc:100426308]
ENSMMUG00000018932 adhesion G protein-coupled receptor E2 [Source:NCBI gene;Acc:654420]
ENSMMUG00000060767
ENSMMUG00000043675 Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:NCBI gene;Acc:114672840]
ENSMMUG00000050339 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000003874 interferon induced transmembrane protein 10 [Source:NCBI gene;Acc:721010]
ENSMMUG00000011332 Rho GTPase activating protein 35 [Source:VGNC Symbol;Acc:VGNC:69942]
ENSMMUG00000048066 trafficking protein particle complex 9 [Source:NCBI gene;Acc:711466]
ENSMMUG00000006853 crystallin beta B2 [Source:NCBI gene;Acc:100144420]
ENSMMUG00000014277 ITPR interacting domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73584]
ENSMMUG00000061079 golgin subfamily A member 6C [Source:NCBI gene;Acc:715898]
ENSMMUG00000057361 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000017810 structure specific recognition protein 1 [Source:VGNC Symbol;Acc:VGNC:77891]
ENSMMUG00000060273 mitochondrial ribosomal protein L32 [Source:NCBI gene;Acc:701820]
ENSMMUG00000064557
ENSMMUG00000051807
ENSMMUG00000058432 zinc finger DHC-type palmitoyltransferase 18 [Source:NCBI gene;Acc:719959]
ENSMMUG00000055018 sushi domain containing 6 [Source:NCBI gene;Acc:712719]
ENSMMUG00000019085 3-hydroxybutyrate dehydrogenase 2 [Source:VGNC Symbol;Acc:VGNC:70161]
ENSMMUG00000045513
ENSMMUG00000009995 arachidonate 15-lipoxygenase type B [Source:VGNC Symbol;Acc:VGNC:69797]
ENSMMUG00000013644 potassium two pore domain channel subfamily K member 17 [Source:VGNC Symbol;Acc:VGNC:73828]
ENSMMUG00000063981 nucleoside-triphosphatase, cancer-related [Source:NCBI gene;Acc:712959]
ENSMMUG00000001845 DNA polymerase epsilon 4, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76065]
ENSMMUG00000014397 NCK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:75143]
ENSMMUG00000030964 RAB6A, member RAS oncogene family [Source:NCBI gene;Acc:718717]
ENSMMUG00000017510 membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74499]
ENSMMUG00000028947 complement factor D [Source:VGNC Symbol;Acc:VGNC:71115]
ENSMMUG00000011513 versican [Source:VGNC Symbol;Acc:VGNC:79445]
ENSMMUG00000009890 FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:VGNC Symbol;Acc:VGNC:72614]
ENSMMUG00000019833 Fc receptor like 1 [Source:VGNC Symbol;Acc:VGNC:72528]
ENSMMUG00000056248
ENSMMUG00000000863 dynein axonemal assembly factor 4 [Source:VGNC Symbol;Acc:VGNC:71881]
ENSMMUG00000045609 CCR4-NOT transcription complex subunit 6 like [Source:NCBI gene;Acc:697981]
ENSMMUG00000023816 semaphorin 4B [Source:VGNC Symbol;Acc:VGNC:77165]
ENSMMUG00000016797 tubulin gamma 1 [Source:NCBI gene;Acc:710756]
ENSMMUG00000016417 chromobox 8 [Source:NCBI gene;Acc:717514]
ENSMMUG00000002267 laminin subunit gamma 3 [Source:NCBI gene;Acc:722430]
ENSMMUG00000000869 small nuclear ribonucleoprotein polypeptide C [Source:NCBI gene;Acc:718654]
ENSMMUG00000060289
ENSMMUG00000064391
ENSMMUG00000049494
ENSMMUG00000020799 BH3 interacting domain death agonist [Source:VGNC Symbol;Acc:VGNC:70250]
ENSMMUG00000057570
ENSMMUG00000022100 midnolin [Source:VGNC Symbol;Acc:VGNC:82186]
ENSMMUG00000016273 maltase-glucoamylase [Source:VGNC Symbol;Acc:VGNC:74713]

ENSMMUG0000007538 transient receptor potential cation channel subfamily M member 4 [Source:VGNC Symbol;Acc:VGNC:79105]
ENSMMUG00000055352
ENSMMUG00000023335 ring finger protein 13 [Source:VGNC Symbol;Acc:VGNC:81557]
ENSMMUG00000011878 poly(A) binding protein interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84476]
ENSMMUG00000022401 EMSY transcriptional repressor, BRCA2 interacting [Source:VGNC Symbol;Acc:VGNC:72065]
ENSMMUG00000060901
ENSMMUG00000060576
ENSMMUG00000027986 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000059318 urocortin 2 [Source:NCBI gene;Acc:106996925]
ENSMMUG00000000396 intraflagellar transport 52 [Source:NCBI gene;Acc:694933]
ENSMMUG00000013944 regulator of microtubule dynamics 2 [Source:VGNC Symbol;Acc:VGNC:76839]
ENSMMUG00000023370 DDB1 and CUL4 associated factor 17 [Source:VGNC Symbol;Acc:VGNC:71709]
ENSMMUG00000055976 CD99 antigen [Source:NCBI gene;Acc:106995376]
ENSMMUG00000023477
ENSMMUG0000006093 enhancer of zeste 1 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:72457]
ENSMMUG00000055324 homeobox B7 [Source:NCBI gene;Acc:697089]
ENSMMUG00000018144 C2 calcium-dependent domain-containing protein 6 [Source:NCBI gene;Acc:702140]
ENSMMUG00000001753 integrin subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73772]
ENSMMUG00000061031
ENSMMUG00000000313 HEAT repeat containing 4 [Source:VGNC Symbol;Acc:VGNC:73176]
ENSMMUG00000011789 hematopoietically expressed homeobox [Source:VGNC Symbol;Acc:VGNC:73376]
ENSMMUG00000022003 multimerin 1 [Source:VGNC Symbol;Acc:VGNC:74904]
ENSMMUG00000018396 HAUS augmin like complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:73237]
ENSMMUG00000045093 cyclin B3 [Source:NCBI gene;Acc:694534]
ENSMMUG00000021477 ATPase H+ transporting V1 subunit E1 [Source:NCBI gene;Acc:709739]
ENSMMUG00000002950 transferrin receptor 2 [Source:VGNC Symbol;Acc:VGNC:81770]
ENSMMUG00000042598 transmembrane protein 18 [Source:NCBI gene;Acc:721515]
ENSMMUG00000020185 voltage dependent anion channel 3 [Source:VGNC Symbol;Acc:VGNC:84135]
ENSMMUG00000006181 WD repeat, sterile alpha motif and U-box domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79634]
ENSMMUG00000001088 patched domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76322]
ENSMMUG00000046550 coiled-coil domain containing 125 [Source:NCBI gene;Acc:704391]
ENSMMUG00000016678 Rho associated coiled-coil containing protein kinase 2 [Source:VGNC Symbol;Acc:VGNC:76714]
ENSMMUG00000038944
ENSMMUG00000003484 tectonin beta-propeller repeat containing 2 [Source:NCBI gene;Acc:708959]
ENSMMUG00000016796 reticulophagy regulator family member 3 [Source:VGNC Symbol;Acc:VGNC:76845]
ENSMMUG00000053457 caspase 14 [Source:NCBI gene;Acc:718049]
ENSMMUG00000056945
ENSMMUG0000006066 phosphatidylcholine transfer protein [Source:VGNC Symbol;Acc:VGNC:75789]
ENSMMUG00000051201 zinc finger SWIM-type containing 3 [Source:NCBI gene;Acc:708804]
ENSMMUG00000004257 beta-secretase 2 [Source:VGNC Symbol;Acc:VGNC:70216]
ENSMMUG00000062794
ENSMMUG00000003955 post-GPI attachment to proteins 2 [Source:VGNC Symbol;Acc:VGNC:75823]
ENSMMUG00000039101 pelota mRNA surveillance and ribosome rescue factor [Source:VGNC Symbol;Acc:VGNC:84478]
ENSMMUG00000008383 major facilitator superfamily domain containing 10 [Source:NCBI gene;Acc:720098]
ENSMMUG000000031163 membrane anchored junction protein [Source:VGNC Symbol;Acc:VGNC:74375]
ENSMMUG00000000790 ankyrin repeat domain 17 [Source:VGNC Symbol;Acc:VGNC:84240]
ENSMMUG00000002810 TOX high mobility group box family member 2 [Source:VGNC Symbol;Acc:VGNC:79007]
ENSMMUG00000060761
ENSMMUG00000065054 G protein subunit gamma 7 [Source:NCBI gene;Acc:711335]
ENSMMUG00000024234 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000004801 COPI coat complex subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:71315]

ENSMMUG00000015865 arginase 2 [Source:VGNC Symbol;Acc:VGNC:70005]
ENSMMUG0000000700 CLN3 lysosomal/endosomal transmembrane protein, battenin [Source:NCBI gene;Acc:705815]
ENSMMUG00000013387 cysteinyl leukotriene receptor 1 [Source:VGNC Symbol;Acc:VGNC:71646]
ENSMMUG00000050822 carbonic anhydrase 9 [Source:NCBI gene;Acc:696729]
ENSMMUG00000008379 adducin 1 [Source:VGNC Symbol;Acc:VGNC:69528]
ENSMMUG00000002376 scavenger receptor class F member 1 [Source:VGNC Symbol;Acc:VGNC:77027]
ENSMMUG00000028948 azurocidin 1 [Source:VGNC Symbol;Acc:VGNC:70202]
ENSMMUG00000002536 calcium binding protein 1 [Source:VGNC Symbol;Acc:VGNC:70495]
ENSMMUG00000005208 RNA polymerase III subunit B [Source:VGNC Symbol;Acc:VGNC:76143]
ENSMMUG00000012405 transient receptor potential cation channel subfamily C member 1 [Source:VGNC Symbol;Acc:VGNC:78651]
ENSMMUG00000044257 MX dynamin like GTPase 2 [Source:VGNC Symbol;Acc:VGNC:81723]
ENSMMUG00000013967 TOX high mobility group box family member 3 [Source:VGNC Symbol;Acc:VGNC:78612]
ENSMMUG00000017189 regulatory factor X6 [Source:VGNC Symbol;Acc:VGNC:76800]
ENSMMUG00000051975
ENSMMUG00000065247 opioid receptor kappa 1 [Source:NCBI gene;Acc:710783]
ENSMMUG00000062326
ENSMMUG0000006285 antizyme inhibitor 2 [Source:VGNC Symbol;Acc:VGNC:70153]
ENSMMUG00000063914
ENSMMUG0000000644 centrosomal protein 85 [Source:VGNC Symbol;Acc:VGNC:71096]
ENSMMUG00000015686 abhydrolase domain containing 16A [Source:VGNC Symbol;Acc:VGNC:69393]
ENSMMUG00000057934
ENSMMUG00000006931 kirre like nephrin family adhesion molecule 3 [Source:NCBI gene;Acc:714534]
ENSMMUG00000055914
ENSMMUG00000007422 spermatogenesis associated 5 [Source:VGNC Symbol;Acc:VGNC:77952]
ENSMMUG00000010137 microcephalin 1 [Source:VGNC Symbol;Acc:VGNC:74687]
ENSMMUG00000050793 N-acetyl-alpha-glucosaminidase [Source:NCBI gene;Acc:707186]
ENSMMUG00000035943 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000050465 ZFP42 zinc finger protein [Source:NCBI gene;Acc:707621]
ENSMMUG00000003950 nucleoporin 98 and 96 precursor [Source:VGNC Symbol;Acc:VGNC:75563]
ENSMMUG00000004376 calcium and integrin binding 1 [Source:VGNC Symbol;Acc:VGNC:71189]
ENSMMUG00000064707
ENSMMUG00000003217 transmembrane 7 superfamily member 3 [Source:VGNC Symbol;Acc:VGNC:79371]
ENSMMUG00000006568 basic leucine zipper ATF-like transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:70127]
ENSMMUG00000021634 TNF alpha induced protein 2 [Source:VGNC Symbol;Acc:VGNC:78579]
ENSMMUG00000061424 ventral anterior homeobox 2 [Source:NCBI gene;Acc:703531]
ENSMMUG00000008923 Thy-1 cell surface antigen [Source:VGNC Symbol;Acc:VGNC:78352]
ENSMMUG00000002959 helicase with zinc finger [Source:VGNC Symbol;Acc:VGNC:73178]
ENSMMUG00000002917 single Ig IL-1-related receptor [Source:NCBI gene;Acc:100425060]
ENSMMUG00000061896
ENSMMUG00000021610 regulator of G protein signaling 10 [Source:VGNC Symbol;Acc:VGNC:76915]
ENSMMUG00000041101 protein phosphatase 2 regulatory subunit B'beta [Source:NCBI gene;Acc:722026]
ENSMMUG00000009593 WAS/WASL interacting protein family member 1 [Source:VGNC Symbol;Acc:VGNC:78784]
ENSMMUG00000057632
ENSMMUG00000008031 zinc finger and BTB domain containing 17 [Source:VGNC Symbol;Acc:VGNC:78849]
ENSMMUG00000015744 zinc finger protein 302 [Source:NCBI gene;Acc:706279]
ENSMMUG00000008828 BEN domain containing 5 [Source:NCBI gene;Acc:711150]
ENSMMUG00000055048
ENSMMUG00000055897
ENSMMUG00000052569
ENSMMUG00000018719 nemo like kinase [Source:VGNC Symbol;Acc:VGNC:75277]
ENSMMUG00000055775 transmembrane p24 trafficking protein 1 [Source:NCBI gene;Acc:713618]

ENSMMUG00000062781 chromosome 14 C11orf97 homolog [Source:NCBI gene;Acc:106993442]
ENSMMUG00000014273 cation channel sperm associated auxiliary subunit gamma [Source:VGNC Symbol;Acc:VGNC:70626]
ENSMMUG00000018246 transmembrane and coiled-coil domains 6 [Source:VGNC Symbol;Acc:VGNC:84507]
ENSMMUG00000000951 integrin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:73786]
ENSMMUG00000005595 RAB14, member RAS oncogene family [Source:NCBI gene;Acc:699837]
ENSMMUG00000060502
ENSMMUG00000018239 centrosomal protein 83 [Source:VGNC Symbol;Acc:VGNC:70992]
ENSMMUG00000016580 selectin E [Source:VGNC Symbol;Acc:VGNC:77156]
ENSMMUG00000010180 PIN2 (TERF1) interacting telomerase inhibitor 1 [Source:NCBI gene;Acc:701523]
ENSMMUG00000058817
ENSMMUG00000021972 diacylglycerol kinase gamma [Source:VGNC Symbol;Acc:VGNC:71785]
ENSMMUG00000055811
ENSMMUG00000002715 solute carrier family 9 member A8 [Source:VGNC Symbol;Acc:VGNC:77749]
ENSMMUG00000052505 homeobox B9 [Source:NCBI gene;Acc:106994009]
ENSMMUG00000053937
ENSMMUG00000053790
ENSMMUG00000005745 EYA transcriptional coactivator and phosphatase 4 [Source:VGNC Symbol;Acc:VGNC:72456]
ENSMMUG00000061342
ENSMMUG00000058176 b-defensin2-like [Source:NCBI gene;Acc:100169969]
ENSMMUG00000050028
ENSMMUG00000004332 tripartite motif containing 44 [Source:VGNC Symbol;Acc:VGNC:79168]
ENSMMUG00000012801 zinc finger protein 235 [Source:VGNC Symbol;Acc:VGNC:78825]
ENSMMUG00000003684 ATPase phospholipid transporting 8B4 (putative) [Source:VGNC Symbol;Acc:VGNC:84311]
ENSMMUG00000002411 drebrin like [Source:NCBI gene;Acc:720621]
ENSMMUG00000017256 calcium voltage-gated channel subunit alpha1 G [Source:VGNC Symbol;Acc:VGNC:70504]
ENSMMUG00000018986 seizure related 6 homolog like 2 [Source:VGNC Symbol;Acc:VGNC:81567]
ENSMMUG00000001707 amyloid beta precursor protein binding family B member 3 [Source:VGNC Symbol;Acc:VGNC:69869]
ENSMMUG00000047465 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000063759 transmembrane protein 185B [Source:NCBI gene;Acc:695744]
ENSMMUG00000057331 RNA terminal phosphate cyclase like 1 [Source:NCBI gene;Acc:694568]
ENSMMUG00000002384 IGF like family receptor 1 [Source:VGNC Symbol;Acc:VGNC:73434]
ENSMMUG00000001848 sprouty RTK signaling antagonist 1 [Source:VGNC Symbol;Acc:VGNC:77867]
ENSMMUG00000004103 collagen type XI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71289]
ENSMMUG00000000740 spermatogenesis associated 2 [Source:VGNC Symbol;Acc:VGNC:77923]
ENSMMUG00000006530 ATP/GTP binding protein like 3 [Source:VGNC Symbol;Acc:VGNC:69723]
ENSMMUG00000003598 tripartite motif containing 7 [Source:VGNC Symbol;Acc:VGNC:79022]
ENSMMUG00000014240 thioredoxin domain containing 11 [Source:VGNC Symbol;Acc:VGNC:79678]
ENSMMUG00000009960 cathepsin A [Source:VGNC Symbol;Acc:VGNC:71617]
ENSMMUG00000016579 selectin L [Source:NCBI gene;Acc:701419]
ENSMMUG00000005482 lysine methyltransferase 2A [Source:NCBI gene;Acc:705511]
ENSMMUG00000013830 glucose-6-phosphatase catalytic subunit 2 [Source:NCBI gene;Acc:709062]
ENSMMUG00000062217 HD domain containing 3 [Source:NCBI gene;Acc:715621]
ENSMMUG00000005989 GLE1 RNA export mediator [Source:VGNC Symbol;Acc:VGNC:73067]
ENSMMUG00000062037 stannin [Source:NCBI gene;Acc:711909]
ENSMMUG00000013044 selectin P [Source:VGNC Symbol;Acc:VGNC:77157]
ENSMMUG00000009312 leukotriene A4 hydrolase [Source:VGNC Symbol;Acc:VGNC:74453]
ENSMMUG00000006851 SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3 [Source:NCBI gene;Acc:705964]
ENSMMUG00000001547 zinc finger protein 106 [Source:VGNC Symbol;Acc:VGNC:78831]
ENSMMUG00000020534 p21 (RAC1) activated kinase 6 [Source:NCBI gene;Acc:701589]
ENSMMUG00000008384 solute carrier family 4 member 10 [Source:VGNC Symbol;Acc:VGNC:77695]
ENSMMUG00000015416 bromodomain and PHD finger containing 3 [Source:VGNC Symbol;Acc:VGNC:70309]

ENSMMUG0000004273 dedicator of cytokinesis 3 [Source:VGNC Symbol;Acc:VGNC:71967]
ENSMMUG00000046478 WASH complex subunit 3 [Source:NCBI gene;Acc:697824]
ENSMMUG00000023479 latent transforming growth factor beta binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74458]
ENSMMUG00000005302 BAG cochaperone 6 [Source:VGNC Symbol;Acc:VGNC:81044]
ENSMMUG00000057785
ENSMMUG00000019528 adaptor related protein complex 4 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69972]
ENSMMUG00000057702
ENSMMUG00000018345 phosphatidylethanolamine binding protein 4 [Source:VGNC Symbol;Acc:VGNC:82204]
ENSMMUG00000052073
ENSMMUG00000059782
ENSMMUG00000064532 mucin 16, cell surface associated [Source:NCBI gene;Acc:106996460]
ENSMMUG00000053367 secreted protein acidic and cysteine rich [Source:NCBI gene;Acc:712388]
ENSMMUG00000006180 tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:78238]
ENSMMUG00000006091 contactin associated protein 1 [Source:VGNC Symbol;Acc:VGNC:71390]
ENSMMUG00000012797 zinc finger protein 233 [Source:VGNC Symbol;Acc:VGNC:79903]
ENSMMUG00000007925 serum/glucocorticoid regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:77228]
ENSMMUG00000038524 olfactory receptor 2M4 [Source:NCBI gene;Acc:100424541]
ENSMMUG00000023403 GTP binding protein 3, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73170]
ENSMMUG00000010466 solute carrier family 38 member 9 [Source:VGNC Symbol;Acc:VGNC:77574]
ENSMMUG00000040393 zinc finger protein 655 [Source:NCBI gene;Acc:718811]
ENSMMUG00000056381 forkhead box R1 [Source:NCBI gene;Acc:707285]
ENSMMUG00000008387 dipeptidyl peptidase 4 [Source:VGNC Symbol;Acc:VGNC:71979]
ENSMMUG00000018034 suppression of tumorigenicity 14 [Source:VGNC Symbol;Acc:VGNC:77897]
ENSMMUG00000001060 ryanodine receptor 2 [Source:VGNC Symbol;Acc:VGNC:76954]
ENSMMUG00000007200 NEDD4 binding protein 2 like 2 [Source:VGNC Symbol;Acc:VGNC:75031]
ENSMMUG00000008195 TGF β induced factor homeobox 2 [Source:NCBI gene;Acc:100429616]
ENSMMUG00000015685 zinc finger protein 804B [Source:VGNC Symbol;Acc:VGNC:81890]
ENSMMUG00000019304 indoleamine 2,3-dioxygenase 1 [Source:VGNC Symbol;Acc:VGNC:73580]
ENSMMUG00000063198
ENSMMUG00000059182
ENSMMUG00000059229 CEA cell adhesion molecule 7 [Source:NCBI gene;Acc:705572]
ENSMMUG00000018619 DENN domain containing 6A [Source:VGNC Symbol;Acc:VGNC:71726]
ENSMMUG00000017822 periplakin [Source:VGNC Symbol;Acc:VGNC:76240]
ENSMMUG00000031279 torsin A interacting protein 2 [Source:NCBI gene;Acc:716654]
ENSMMUG00000020726 dihydropyrimidine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71982]
ENSMMUG00000002422 AE binding protein 1 [Source:VGNC Symbol;Acc:VGNC:80328]
ENSMMUG00000012941 nudix hydrolase 22 [Source:VGNC Symbol;Acc:VGNC:75475]
ENSMMUG00000000958 aldo-keto reductase family 1, member C2 [Source:NCBI gene;Acc:711360]
ENSMMUG00000050405
ENSMMUG00000061935
ENSMMUG00000010313 kinesin family member 3A [Source:VGNC Symbol;Acc:VGNC:74017]
ENSMMUG00000009197 myelin associated oligodendrocyte basic protein [Source:VGNC Symbol;Acc:VGNC:74908]
ENSMMUG00000016323 Rho guanine nucleotide exchange factor 39 [Source:VGNC Symbol;Acc:VGNC:69912]
ENSMMUG00000005297 proline rich coiled-coil 2A [Source:VGNC Symbol;Acc:VGNC:83448]
ENSMMUG00000022313 activating transcription factor 7 [Source:NCBI gene;Acc:700403]
ENSMMUG00000001036 coagulation factor VII [Source:VGNC Symbol;Acc:VGNC:72466]
ENSMMUG00000061533
ENSMMUG00000014699
ENSMMUG00000020604 HPS1 biogenesis of lysosomal organelles complex 3 subunit 1 [Source:VGNC Symbol;Acc:VGNC:73515]
ENSMMUG00000003539 glutamine rich 2 [Source:VGNC Symbol;Acc:VGNC:76534]
ENSMMUG00000065295

ENSMMUG00000061335
ENSMMUG00000054686
ENSMMUG00000064146 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050696 taste receptor type 2 member 31-like [Source:NCBI gene;Acc:693892]
ENSMMUG00000009499 mesoderm specific transcript [Source:VGNC Symbol;Acc:VGNC:74707]
ENSMMUG00000064730
ENSMMUG00000013871 WD repeat domain 25 [Source:VGNC Symbol;Acc:VGNC:78420]
ENSMMUG00000013477 creatine kinase, M-type [Source:VGNC Symbol;Acc:VGNC:71230]
ENSMMUG00000023016 jade family PHD finger 3 [Source:VGNC Symbol;Acc:VGNC:73640]
ENSMMUG00000038363 adaptor related protein complex 5 subunit beta 1 [Source:NCBI gene;Acc:721904]
ENSMMUG00000058536
ENSMMUG00000022893 von Willebrand factor [Source:VGNC Symbol;Acc:VGNC:78778]
ENSMMUG00000009377 tripartite motif containing 47 [Source:VGNC Symbol;Acc:VGNC:79171]
ENSMMUG00000019070 focadhesin [Source:VGNC Symbol;Acc:VGNC:72556]
ENSMMUG00000014771 zinc finger homeobox 2 [Source:NCBI gene;Acc:100429448]
ENSMMUG00000048566 MCF.2 cell line derived transforming sequence like [Source:NCBI gene;Acc:713961]
ENSMMUG00000026950 microRNA 101-2 [Source:HGNC Symbol;Acc:HGNC:31489]
ENSMMUG00000017627 B-TFIID TATA-box binding protein associated factor 1 [Source:VGNC Symbol;Acc:VGNC:70336]
ENSMMUG00000057196 pulmonary surfactant-associated protein A [Source:NCBI gene;Acc:701715]
ENSMMUG00000002949 motile sperm domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74823]
ENSMMUG00000007387 G protein-coupled receptor kinase 7 [Source:VGNC Symbol;Acc:VGNC:73182]
ENSMMUG00000016448 DLG associated protein 4 [Source:NCBI gene;Acc:702928]
ENSMMUG00000046417 chromobox 2 [Source:NCBI gene;Acc:717462]
ENSMMUG00000016327 coiled-coil domain containing 107 [Source:VGNC Symbol;Acc:VGNC:70656]
ENSMMUG00000018967 ubiquitin conjugating enzyme E2 O [Source:VGNC Symbol;Acc:VGNC:79813]
ENSMMUG00000005504 nucleoporin 37 [Source:VGNC Symbol;Acc:VGNC:75491]
ENSMMUG00000032429 forkhead box O4 [Source:VGNC Symbol;Acc:VGNC:72712]
ENSMMUG00000006929 ST3 beta-galactoside alpha-2,3-sialyltransferase 4 [Source:VGNC Symbol;Acc:VGNC:77827]
ENSMMUG00000020668 cyclin E1 [Source:VGNC Symbol;Acc:VGNC:70727]
ENSMMUG00000022884 glutamate-ammonia ligase [Source:NCBI gene;Acc:715952]
ENSMMUG00000001151 microtubule associated scaffold protein 1 [Source:VGNC Symbol;Acc:VGNC:84018]
ENSMMUG00000003303 Tu translation elongation factor, mitochondrial [Source:VGNC Symbol;Acc:VGNC:78674]
ENSMMUG00000011817 aryl hydrocarbon receptor interacting protein [Source:VGNC Symbol;Acc:VGNC:69759]
ENSMMUG00000006855 acyl-CoA thioesterase 2 [Source:NCBI gene;Acc:697011]
ENSMMUG00000017036 nicalin [Source:VGNC Symbol;Acc:VGNC:75032]
ENSMMUG00000063622 mitochondrial ribosomal protein S26 [Source:NCBI gene;Acc:717038]
ENSMMUG00000022921 solute carrier family 2 member 12 [Source:VGNC Symbol;Acc:VGNC:77503]
ENSMMUG00000017701 myosin VIIA and Rab interacting protein [Source:VGNC Symbol;Acc:VGNC:74992]
ENSMMUG00000004002 CDC like kinase 4 [Source:VGNC Symbol;Acc:VGNC:71173]
ENSMMUG00000012356 serpin family A member 9 [Source:VGNC Symbol;Acc:VGNC:77241]
ENSMMUG00000021039 X-ray radiation resistance associated 1 [Source:NCBI gene;Acc:693788]
ENSMMUG00000050608
ENSMMUG00000061208 MAP3K7 C-terminal like [Source:NCBI gene;Acc:713717]
ENSMMUG00000021664 lamin tail domain containing 2 [Source:VGNC Symbol;Acc:VGNC:74380]
ENSMMUG00000003298 ataxin 2 like [Source:VGNC Symbol;Acc:VGNC:70159]
ENSMMUG00000062863
ENSMMUG00000057640 plakophilin-3-like [Source:NCBI gene;Acc:114669833]
ENSMMUG00000002426 myosin light chain 7 [Source:VGNC Symbol;Acc:VGNC:75002]
ENSMMUG00000058916
ENSMMUG00000031534 ankyrin repeat and ubiquitin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:84239]
ENSMMUG00000028733 RAS related [Source:VGNC Symbol;Acc:VGNC:76937]

ENSMMUG00000049130
 ENSMMUG00000056555
 ENSMMUG00000010308 cyclin I family member 2 [Source:VGNC Symbol;Acc:VGNC:70923]
 ENSMMUG00000054473 activating transcription factor 5 [Source:NCBI gene;Acc:719150]
 ENSMMUG00000019690 SEC14 and spectrin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77267]
 ENSMMUG00000022996 HCLS1 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:82158]
 ENSMMUG00000000375 pleckstrin homology and RhoGEF domain containing G6 [Source:VGNC Symbol;Acc:VGNC:76110]
 ENSMMUG00000058423
 ENSMMUG00000012635 zyxin [Source:VGNC Symbol;Acc:VGNC:78917]
 ENSMMUG00000051677
 ENSMMUG00000018137 MYB proto-oncogene like 2 [Source:VGNC Symbol;Acc:VGNC:75092]
 ENSMMUG00000002217 alkaline phosphatase, biomineralization associated [Source:VGNC Symbol;Acc:VGNC:69801]
 ENSMMUG00000003131 interleukin 13 [Source:VGNC Symbol;Acc:VGNC:84393]
 ENSMMUG00000059671
 ENSMMUG00000013146 claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]
 ENSMMUG00000005488 coronin 1B [Source:VGNC Symbol;Acc:VGNC:71320]
 ENSMMUG00000010824 SWIM-type zinc finger 7 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78220]
 ENSMMUG00000052777
 ENSMMUG00000014138 forkhead box J3 [Source:VGNC Symbol;Acc:VGNC:72596]
 ENSMMUG00000001397 multiple C2 and transmembrane domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74589]
 ENSMMUG00000058885 formin binding protein 4 [Source:NCBI gene;Acc:712633]
 ENSMMUG00000016890 solute carrier family 37 member 4 [Source:VGNC Symbol;Acc:VGNC:77591]
 ENSMMUG00000017224 catenin beta like 1 [Source:VGNC Symbol;Acc:VGNC:71414]
 ENSMMUG00000052891
 ENSMMUG00000014032 proline rich 36 [Source:NCBI gene;Acc:710443]
 ENSMMUG00000064824 gremlin 2, DAN family BMP antagonist [Source:NCBI gene;Acc:708280]
 ENSMMUG00000012147 collagen type V alpha 1 chain [Source:NCBI gene;Acc:722014]
 ENSMMUG00000002886 Bardet-Biedl syndrome 9 [Source:NCBI gene;Acc:708412]
 ENSMMUG00000051816 keratinocyte proline rich protein [Source:NCBI gene;Acc:100424312]
 ENSMMUG00000013696 myozenin 1 [Source:VGNC Symbol;Acc:VGNC:74951]
 ENSMMUG00000001745 oxysterol binding protein [Source:VGNC Symbol;Acc:VGNC:75718]
 ENSMMUG00000007773 solute carrier organic anion transporter family member 4C1 [Source:VGNC Symbol;Acc:VGNC:77764]
 ENSMMUG00000015693 lymphocyte antigen 6 family member G6C [Source:VGNC Symbol;Acc:VGNC:74285]
 ENSMMUG00000053106
 ENSMMUG00000003005 MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:VGNC Symbol;Acc:VGNC:74712]
 ENSMMUG00000000808 melanin concentrating hormone receptor 2 [Source:VGNC Symbol;Acc:VGNC:74550]
 ENSMMUG000000031391 RNA binding motif protein 38 [Source:VGNC Symbol;Acc:VGNC:76484]
 ENSMMUG00000014868 OCIA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75409]
 ENSMMUG00000001702 succinyl-CoA:glutarate-CoA transferase [Source:VGNC Symbol;Acc:VGNC:81767]
 ENSMMUG00000005294 casein kinase 2 beta [Source:NCBI gene;Acc:715807]
 ENSMMUG00000006997 thioredoxin domain containing 16 [Source:VGNC Symbol;Acc:VGNC:79214]
 ENSMMUG00000005293 G-patch domain and ankyrin repeats 1 [Source:VGNC Symbol;Acc:VGNC:81073]
 ENSMMUG00000015555 ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:77828]
 ENSMMUG00000061923
 ENSMMUG00000056266 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000012938 SR-related CTD associated factor 1 [Source:VGNC Symbol;Acc:VGNC:77137]
 ENSMMUG00000053516
 ENSMMUG00000005554 mediator complex subunit 29 [Source:VGNC Symbol;Acc:VGNC:74557]
 ENSMMUG00000051645
 ENSMMUG00000008518 phospholipid phosphatase related 5 [Source:NCBI gene;Acc:710549]
 ENSMMUG00000058013 melanoma-associated antigen 3 [Source:NCBI gene;Acc:706103]

NS_D1 NS_D2 S_D1 S_D2 S_D3

9

NS_D1 NS_D2 NS_D3 S_D1 S_D2

72

ENSMMUG00000018743 ubiquitin specific peptidase 25 [Source:VGNC Symbol;Acc:VGNC:78744]
 ENSMMUG00000003457 protein kinase cAMP-activated catalytic subunit beta [Source:NCBI gene;Acc:709728]
 ENSMMUG00000014876 nucleolus and neural progenitor protein [Source:VGNC Symbol;Acc:VGNC:75244]
 ENSMMUG00000005432 clathrin heavy chain like 1 [Source:VGNC Symbol;Acc:VGNC:71268]
 ENSMMUG00000043134 coiled-coil domain containing 159 [Source:NCBI gene;Acc:100424702]
 ENSMMUG00000016069 cubilin [Source:VGNC Symbol;Acc:VGNC:82132]
 ENSMMUG00000053984
 ENSMMUG00000058534
 ENSMMUG00000008007 multiple EGF like domains 11 [Source:VGNC Symbol;Acc:VGNC:84376]
 ENSMMUG00000000803 signal transducer and activator of transcription 2 [Source:VGNC Symbol;Acc:VGNC:77905]
 ENSMMUG00000057231 T-box transcription factor 21 [Source:NCBI gene;Acc:694044]
 ENSMMUG00000040741 thioredoxin related transmembrane protein 2 [Source:NCBI gene;Acc:100169970]
 ENSMMUG00000006766 RUN domain containing 3B [Source:VGNC Symbol;Acc:VGNC:77129]
 ENSMMUG00000054960
 ENSMMUG00000051226 FAD-linked sulfhydryl oxidase ERV1 [Source:NCBI gene;Acc:106994988]
 ENSMMUG00000059341 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000009040 cornulin [Source:VGNC Symbol;Acc:VGNC:71397]
 ENSMMUG00000021449 vacuolar protein sorting 13 homolog D [Source:NCBI gene;Acc:722775]
 ENSMMUG00000011774 integrator complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:73653]
 ENSMMUG00000009184 myelin protein zero like 1 [Source:NCBI gene;Acc:698437]
 ENSMMUG00000009684 kinesin family member 22 [Source:VGNC Symbol;Acc:VGNC:74033]
 ENSMMUG00000013251 xin actin binding repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:78953]
 ENSMMUG00000037243 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000060760
 ENSMMUG00000023060 A-kinase anchoring protein 4 [Source:VGNC Symbol;Acc:VGNC:69770]
 ENSMMUG00000043396 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000018549 zinc finger protein 786 [Source:VGNC Symbol;Acc:VGNC:79338]
 ENSMMUG00000052780
 ENSMMUG00000021436 latent transforming growth factor beta binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74456]
 ENSMMUG00000001338 antizyme inhibitor 1 [Source:VGNC Symbol;Acc:VGNC:70080]
 ENSMMUG00000039292
 ENSMMUG00000059472 filaggrin family member 2 [Source:HGNC Symbol;Acc:HGNC:33276]
 ENSMMUG00000000776 zinc finger matrin-type 4 [Source:VGNC Symbol;Acc:VGNC:78424]
 ENSMMUG00000061194
 ENSMMUG00000019839 lysine acetyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:73955]
 ENSMMUG00000001409 coiled-coil domain containing 187 [Source:NCBI gene;Acc:710749]
 ENSMMUG00000004309 APC membrane recruitment protein 1 [Source:VGNC Symbol;Acc:VGNC:69716]
 ENSMMUG00000056024
 ENSMMUG00000062996
 ENSMMUG00000004774 maestro heat like repeat family member 2B [Source:VGNC Symbol;Acc:VGNC:74837]
 ENSMMUG00000006836 chloride channel accessory 1 [Source:NCBI gene;Acc:574295]
 ENSMMUG00000013330 ectonucleoside triphosphate diphosphohydrolase 3 [Source:VGNC Symbol;Acc:VGNC:72226]
 ENSMMUG00000048215
 ENSMMUG00000060812 autophagy related 12 [Source:NCBI gene;Acc:696765]
 ENSMMUG00000061785
 ENSMMUG00000062063 melanoma-associated antigen 3 [Source:NCBI gene;Acc:711544]
 19 ENSMMUG00000023282 aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Source:NCBI gene;Acc:711198]
 ENSMMUG00000039009
 ENSMMUG00000023449 mitofusin 2 [Source:VGNC Symbol;Acc:VGNC:74522]
 ENSMMUG00000063322
 ENSMMUG00000005483 ribosomal protein S6 kinase B2 [Source:VGNC Symbol;Acc:VGNC:76934]

ENSMMUG00000014674 golgin, RAB6 interacting [Source:VGNC Symbol;Acc:VGNC:73012]
 ENSMMUG00000015866 vesicle transport through interaction with t-SNAREs 1B [Source:NCBI gene;Acc:711113]
 ENSMMUG00000003006 serine palmitoyltransferase long chain base subunit 1 [Source:VGNC Symbol;Acc:VGNC:77873]
 ENSMMUG00000006893 D-amino acid oxidase [Source:VGNC Symbol;Acc:VGNC:71729]
 ENSMMUG00000017561 solute carrier family 43 member 2 [Source:VGNC Symbol;Acc:VGNC:77554]
 ENSMMUG00000021428 lipocalin 12 [Source:VGNC Symbol;Acc:VGNC:74143]
 ENSMMUG00000003436 tubulin tyrosine ligase like 6 [Source:VGNC Symbol;Acc:VGNC:79632]
 ENSMMUG00000022407 serine and arginine rich splicing factor 5 [Source:NCBI gene;Acc:712867]
 ENSMMUG00000014715 fragile site, folic acid type, rare, fra(10)(q23.3) or fra(10)(q24.2) candidate 1 [Source:NCBI gene;Acc:700389]
 ENSMMUG00000013671 elongation factor for RNA polymerase II [Source:VGNC Symbol;Acc:VGNC:72088]
 ENSMMUG00000004748 zinc finger and BTB domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79238]
 ENSMMUG00000008623 coiled-coil domain containing 22 [Source:VGNC Symbol;Acc:VGNC:70899]
 ENSMMUG00000049850 proline rich and Gla domain 4 [Source:NCBI gene;Acc:694707]
 ENSMMUG00000060879 homeobox B13 [Source:NCBI gene;Acc:697572]
 66 ENSMMUG00000054942 pre-mRNA processing factor 8 [Source:VGNC Symbol;Acc:VGNC:76275]
 ENSMMUG00000004820 cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:700192]
 ENSMMUG00000053378 mediator complex subunit 24 [Source:NCBI gene;Acc:699536]
 ENSMMUG00000061576 EPH receptor A2 [Source:VGNC Symbol;Acc:VGNC:72235]
 ENSMMUG00000018245 collapsin response mediator protein 1 [Source:VGNC Symbol;Acc:VGNC:71494]
 ENSMMUG00000018664 collagen type IX alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71307]
 ENSMMUG00000056009 MIER family member 2 [Source:VGNC Symbol;Acc:VGNC:74855]
 ENSMMUG00000059188 protein kinase AMP-activated non-catalytic subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:76406]
 ENSMMUG00000021877 glycoprotein hormone subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:72961]
 ENSMMUG00000049894 solute carrier family 41 member 2 [Source:VGNC Symbol;Acc:VGNC:77585]
 ENSMMUG00000017129 dynactin subunit 4 [Source:VGNC Symbol;Acc:VGNC:71625]
 ENSMMUG00000019764 TATA-box binding protein associated factor 5 like [Source:VGNC Symbol;Acc:VGNC:78148]
 ENSMMUG00000009508 DiGeorge syndrome critical region gene 2 [Source:NCBI gene;Acc:100423715]
 ENSMMUG00000019925 ubiquitin specific peptidase 20 [Source:VGNC Symbol;Acc:VGNC:78740]
 ENSMMUG00000058437 mannosidase beta [Source:VGNC Symbol;Acc:VGNC:74486]
 ENSMMUG00000003797 protein tyrosine phosphatase receptor type C associated protein [Source:VGNC Symbol;Acc:VGNC:76613]
 ENSMMUG00000003739 cadherin related family member 3 [Source:HGNC Symbol;Acc:HGNC:26308]
 ENSMMUG00000005486 alanyl aminopeptidase, membrane [Source:VGNC Symbol;Acc:VGNC:69943]
 ENSMMUG00000008189 synapse defective Rho GTPase homolog 1 [Source:NCBI gene;Acc:719089]
 ENSMMUG00000014983 CCZ1 homolog, vacuolar protein trafficking and biogenesis associated [Source:NCBI gene;Acc:718128]
 ENSMMUG00000007726 calcium voltage-gated channel subunit alpha1 F [Source:VGNC Symbol;Acc:VGNC:70503]
 ENSMMUG0000007970 PAT1 homolog 1, processing body mRNA decay factor [Source:VGNC Symbol;Acc:VGNC:75684]
 ENSMMUG00000008618 CD14 molecule [Source:VGNC Symbol;Acc:VGNC:70751]
 ENSMMUG00000017287 shieldin complex subunit 1 [Source:NCBI gene;Acc:718152]
 ENSMMUG00000010007 PSMC3 interacting protein [Source:VGNC Symbol;Acc:VGNC:76282]
 ENSMMUG00000056093 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000009889 SEC61 translocon subunit gamma [Source:NCBI gene;Acc:716898]
 ENSMMUG00000062316
 ENSMMUG00000060184

NS_D1 NS_D2 NS_D3 S_D1 S_D3

ENSMMUG00000063988
 ENSMMUG00000018492 TARBP2 subunit of RISC loading complex [Source:VGNC Symbol;Acc:VGNC:78099]
 ENSMMUG00000004816 membrane associated ring-CH-type finger 5 [Source:VGNC Symbol;Acc:VGNC:74588]
 ENSMMUG00000001820 regulator of G protein signaling 6 [Source:VGNC Symbol;Acc:VGNC:76691]
 ENSMMUG00000016929 proline rich and Gla domain 3 [Source:VGNC Symbol;Acc:VGNC:76350]
 ENSMMUG00000008162 fibroblast growth factor binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72536]
 ENSMMUG00000020861 EvC ciliary complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72445]
 ENSMMUG00000051408 myelin associated oligodendrocyte basic protein [Source:NCBI gene;Acc:717265]
 ENSMMUG00000063639
 ENSMMUG00000014872 dolichyl-phosphate N-acetylglucosaminophosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71971]
 ENSMMUG00000042510 coagulation factor V [Source:NCBI gene;Acc:704695]
 ENSMMUG00000003834 basic leucine zipper ATF-like transcription factor [Source:VGNC Symbol;Acc:VGNC:70229]
 ENSMMUG00000056184
 ENSMMUG00000013099 pappalysin 1 [Source:VGNC Symbol;Acc:VGNC:75756]
 ENSMMUG00000012065 tubulin tyrosine ligase like 5 [Source:NCBI gene;Acc:703116]
 ENSMMUG00000004854 leucine rich repeat containing 9 [Source:VGNC Symbol;Acc:VGNC:81443]
 ENSMMUG00000063694 cyclic nucleotide gated channel subunit alpha 2 [Source:NCBI gene;Acc:704486]
 ENSMMUG00000062254
 ENSMMUG00000038256 aquaporin 2 [Source:NCBI gene;Acc:711719]
 ENSMMUG00000049649 proteasome 20S subunit beta 6 [Source:NCBI gene;Acc:710028]
 ENSMMUG00000009361 fumarylacetoacetate hydrolase [Source:NCBI gene;Acc:712716]
 ENSMMUG00000004283 calcium and integrin binding family member 3 [Source:VGNC Symbol;Acc:VGNC:71339]
 ENSMMUG00000054755 transmembrane protein 65 [Source:NCBI gene;Acc:705727]
 ENSMMUG00000000293 catenin alpha 2 [Source:VGNC Symbol;Acc:VGNC:71543]
 ENSMMUG00000003105 inositol polyphosphate-5-phosphatase E [Source:VGNC Symbol;Acc:VGNC:73637]
 ENSMMUG00000004558 OTU deubiquitinase 5 [Source:VGNC Symbol;Acc:VGNC:75677]
 ENSMMUG00000017906 DnaJ heat shock protein family (Hsp40) member B1 [Source:NCBI gene;Acc:718890]
 ENSMMUG00000023300 FERM domain containing 8 [Source:NCBI gene;Acc:716379]
 ENSMMUG00000009884 hydroxysteroid 17-beta dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:73528]
 ENSMMUG00000060063
 ENSMMUG00000062139
 ENSMMUG00000020020 Rho GTPase activating protein 23 [Source:NCBI gene;Acc:693996]
 ENSMMUG00000010309 septin 8 [Source:VGNC Symbol;Acc:VGNC:77248]
 ENSMMUG00000021075 Rac family small GTPase 1 [Source:NCBI gene;Acc:717755]
 ENSMMUG00000005086 homeobox protein TGIF1 [Source:NCBI gene;Acc:694580]
 ENSMMUG00000019991 dopa decarboxylase [Source:VGNC Symbol;Acc:VGNC:71755]
 ENSMMUG0000006659
 ENSMMUG00000055379
 ENSMMUG00000019526 BLM RecQ like helicase [Source:VGNC Symbol;Acc:VGNC:70254]
 ENSMMUG00000007534 protein regulator of cytokinesis 1 [Source:NCBI gene;Acc:710182]
 ENSMMUG00000049232 AMMECR1 like [Source:VGNC Symbol;Acc:VGNC:84208]
 ENSMMUG00000014045 protein tyrosine phosphatase non-receptor type 23 [Source:VGNC Symbol;Acc:VGNC:76477]
 ENSMMUG00000015468 checkpoint with forkhead and ring finger domains [Source:VGNC Symbol;Acc:VGNC:71064]
 ENSMMUG00000011661 integrin subunit alpha 8 [Source:VGNC Symbol;Acc:VGNC:73782]
 ENSMMUG00000050495
 ENSMMUG00000027543 Y RNA [Source:RFAM;Acc:RF00019]
 ENSMMUG00000009199 glycogen phosphorylase B [Source:VGNC Symbol;Acc:VGNC:76631]
 ENSMMUG00000005108 RCC1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76876]
 ENSMMUG00000050585
 ENSMMUG00000003572 nicotinamide phosphoribosyltransferase [Source:VGNC Symbol;Acc:VGNC:75056]
 ENSMMUG0000001989 RNA polymerase II subunit D [Source:VGNC Symbol;Acc:VGNC:76213]

NS_D2 NS_D3 S_D1 S_D2 S_D3

7

NS_D1 NS_D2 NS_D3 S_D2 S_D3

18

	ENSMMUG00000011064	synaptosome associated protein 25 [Source:VGNC Symbol;Acc:VGNC:77663]
	ENSMMUG00000057179	cation channel sperm associated 1 [Source:NCBI gene;Acc:721869]
	ENSMMUG00000023139	small nuclear ribonucleoprotein polypeptide N [Source:VGNC Symbol;Acc:VGNC:78437]
NS_D1 NS_D2 S_D1 S_D2	34 ENSMUG00000021080	basic leucine zipper nuclear factor 1 [Source:VGNC Symbol;Acc:VGNC:70258]
	ENSMUG00000013460	RAB8B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81550]
	ENSMUG00000056058	C-type lectin domain containing 20A [Source:HGNC Symbol;Acc:HGNC:34521]
	ENSMUG00000052348	
	ENSMUG00000006596	CCR4-NOT transcription complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:71327]
	ENSMUG00000055121	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMUG00000056906	
	ENSMUG00000014076	AF4/FMR2 family member 1 [Source:VGNC Symbol;Acc:VGNC:69817]
	ENSMUG00000013385	elongator acetyltransferase complex subunit 6 [Source:VGNC Symbol;Acc:VGNC:72113]
	ENSMUG00000017266	UPF0577 protein KIAA1324 [Source:NCBI gene;Acc:697670]
	ENSMUG00000048621	enolase-phosphatase 1 [Source:NCBI gene;Acc:106998330]
	ENSMUG00000058137	zinc finger protein 816 [Source:NCBI gene;Acc:720058]
	ENSMUG00000054904	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMUG00000023048	cytochrome b-c1 complex subunit Rieske, mitochondrial [Source:NCBI gene;Acc:705178]
	ENSMUG00000014291	SPG11 vesicle trafficking associated, spatacsin [Source:VGNC Symbol;Acc:VGNC:77856]
	ENSMUG00000022207	phospholipid phosphatase related 2 [Source:NCBI gene;Acc:714388]
	ENSMUG00000011155	FA complementation group I [Source:VGNC Symbol;Acc:VGNC:72575]
	ENSMUG00000031100	membrane-spanning 4-domains subfamily A member 4A-like [Source:NCBI gene;Acc:698152]
	ENSMUG00000055963	
	ENSMUG00000017261	galactosylceramidase [Source:VGNC Symbol;Acc:VGNC:72867]
	ENSMUG00000058002	zinc finger protein 669-like [Source:NCBI gene;Acc:696282]
	ENSMUG00000006284	adenylate kinase 2 [Source:VGNC Symbol;Acc:VGNC:69761]
	ENSMUG00000003267	zinc finger protein 362 [Source:NCBI gene;Acc:710013]
	ENSMUG00000060712	
	ENSMUG00000003007	caspase recruitment domain family member 10 [Source:VGNC Symbol;Acc:VGNC:70570]
	ENSMUG00000055747	cytochrome c oxidase subunit 6B [Source:NCBI gene;Acc:692062]
	ENSMUG00000011951	KRI1 homolog [Source:VGNC Symbol;Acc:VGNC:74127]
	ENSMUG00000002564	Fraser extracellular matrix complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72743]
	ENSMUG00000019830	Fc receptor like 2 [Source:VGNC Symbol;Acc:VGNC:72509]
	ENSMUG00000000931	solute carrier family 35 member A3 [Source:VGNC Symbol;Acc:VGNC:77461]
	ENSMUG00000003356	tenascin C [Source:VGNC Symbol;Acc:VGNC:79960]
	ENSMUG00000011440	neurite extension and migration factor [Source:VGNC Symbol;Acc:VGNC:75274]
	ENSMUG00000003697	inositol polyphosphate-4-phosphatase type II B [Source:VGNC Symbol;Acc:VGNC:73748]
	ENSMUG00000057345	calcineurin like phosphoesterase domain containing 1 [Source:NCBI gene;Acc:716978]
NS_D1 S_D1 S_D2 S_D3	11 ENSMUG00000054568	
	ENSMUG00000001568	AT-rich interaction domain 3B [Source:VGNC Symbol;Acc:VGNC:69827]
	ENSMUG00000022730	cytochrome P450, family 3, subfamily A, polypeptide 5 [Source:NCBI gene;Acc:678692]
	ENSMUG00000000874	carbohydrate sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:71055]
	ENSMUG00000019536	potassium voltage-gated channel subfamily Q member 4 [Source:VGNC Symbol;Acc:VGNC:74007]
	ENSMUG00000061995	
	ENSMUG00000040274	MAGE family member A4 [Source:NCBI gene;Acc:710825]
	ENSMUG00000004576	C-C motif chemokine receptor 3 [Source:VGNC Symbol;Acc:VGNC:70738]
	ENSMUG00000002452	solute carrier family 35 member C1 [Source:VGNC Symbol;Acc:VGNC:77524]
	ENSMUG00000011209	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]
	ENSMUG00000062397	
NS_D1 NS_D3 S_D1 S_D2	3 ENSMUG00000008077	dynein cytoplasmic 2 light intermediate chain 1 [Source:VGNC Symbol;Acc:VGNC:71899]
	ENSMUG00000008875	solute carrier family 35 member F5 [Source:VGNC Symbol;Acc:VGNC:77567]
	ENSMUG00000007140	MOK protein kinase [Source:VGNC Symbol;Acc:VGNC:84394]

NS_D1 NS_D2 S_D1 S_D3	2	ENSMMUG00000021447	TNF receptor superfamily member 1B [Source:VGNC Symbol;Acc:VGNC:78590]
		ENSMMUG00000007610	ribosomal protein S6 kinase A4 [Source:VGNC Symbol;Acc:VGNC:76930]
NS_D1 NS_D2 NS_D3 S_D1	107	ENSMMUG000000051537	
		ENSMMUG00000006692	signal peptide, CUB domain and EGF like domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77138]
		ENSMMUG00000023045	zinc finger B-box domain containing [Source:VGNC Symbol;Acc:VGNC:79592]
		ENSMMUG00000008652	coiled-coil domain containing 85B [Source:VGNC Symbol;Acc:VGNC:70853]
		ENSMMUG00000053257	Y RNA [Source:RFAM;Acc:RF00019]
		ENSMMUG00000039266	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000016404	chondromodulin [Source:VGNC Symbol;Acc:VGNC:71191]
		ENSMMUG00000005303	apolipoprotein M [Source:VGNC Symbol;Acc:VGNC:69825]
		ENSMMUG00000004330	peptidase domain containing associated with muscle regeneration 1 [Source:VGNC Symbol;Acc:VGNC:75673]
		ENSMMUG00000014349	integrin subunit alpha X [Source:NCBI gene;Acc:100427850]
		ENSMMUG00000049297	
		ENSMMUG00000008529	chromosome 7 C15orf39 homolog [Source:VGNC Symbol;Acc:VGNC:70620]
		ENSMMUG00000041729	
		ENSMMUG00000022406	ankyrin repeat and sterile alpha motif domain containing 1B [Source:VGNC Symbol;Acc:VGNC:69689]
		ENSMMUG00000008778	parvalbumin [Source:VGNC Symbol;Acc:VGNC:76627]
		ENSMMUG00000010363	ribophorin II [Source:VGNC Symbol;Acc:VGNC:76925]
		ENSMMUG00000064321	
		ENSMMUG00000021476	BCL2 like 13 [Source:VGNC Symbol;Acc:VGNC:84544]
		ENSMMUG00000005511	SON DNA binding protein [Source:VGNC Symbol;Acc:VGNC:77689]
		ENSMMUG00000049755	leucine rich repeat containing 3 [Source:NCBI gene;Acc:712418]
		ENSMMUG00000056343	
		ENSMMUG00000052637	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000022282	collagen type IV alpha 2 chain [Source:NCBI gene;Acc:100429807]
		ENSMMUG00000054211	
		ENSMMUG00000010837	VRK serine/threonine kinase 3 [Source:VGNC Symbol;Acc:VGNC:81605]
		ENSMMUG00000002124	beta-1,4-galactosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:70212]
		ENSMMUG00000019527	DNA cross-link repair 1B [Source:VGNC Symbol;Acc:VGNC:71647]
		ENSMMUG00000005255	TRAF-type zinc finger domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79459]
		ENSMMUG00000055710	taste 2 receptor member 38 [Source:NCBI gene;Acc:695549]
		ENSMMUG00000005478	trimethylguanosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:78404]
		ENSMMUG00000046918	
		ENSMMUG00000016376	mitogen-activated protein kinase kinase kinase 5 [Source:VGNC Symbol;Acc:VGNC:74495]
		ENSMMUG00000025050	Y RNA [Source:RFAM;Acc:RF00019]
		ENSMMUG00000059897	myosin light chain 9 [Source:NCBI gene;Acc:709784]
		ENSMMUG00000064229	
		ENSMMUG00000061151	
		ENSMMUG00000061526	synaptopodin 2 like [Source:NCBI gene;Acc:714736]
		ENSMMUG00000045654	tumor necrosis factor [Source:VGNC Symbol;Acc:VGNC:83501]
		ENSMMUG00000053781	Rho GDP dissociation inhibitor beta [Source:NCBI gene;Acc:702320]
		ENSMMUG00000020679	myozenin 3 [Source:VGNC Symbol;Acc:VGNC:74988]
		ENSMMUG00000058229	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
		ENSMMUG00000007208	G protein-coupled receptor 146 [Source:VGNC Symbol;Acc:VGNC:72979]
		ENSMMUG00000060497	
		ENSMMUG00000063913	endogenous retrovirus group K member 7 Env polyprotein-like [Source:NCBI gene;Acc:114674933]
		ENSMMUG00000058800	
		ENSMMUG00000001536	glutamine and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76544]
		ENSMMUG00000004470	CD9 molecule [Source:VGNC Symbol;Acc:VGNC:70787]
		ENSMMUG00000061951	
		ENSMMUG00000014986	testis expressed 33 [Source:VGNC Symbol;Acc:VGNC:79727]

ENSMMUG00000062522
ENSMMUG0000009887 MAX dimerization protein MLX [Source:VGNC Symbol;Acc:VGNC:74726]
ENSMMUG00000049265 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG0000008758 zinc finger protein 143 [Source:VGNC Symbol;Acc:VGNC:81612]
ENSMMUG00000019667 TAO kinase 1 [Source:VGNC Symbol;Acc:VGNC:81591]
ENSMMUG00000015394 WD repeat domain 93 [Source:VGNC Symbol;Acc:VGNC:79642]
ENSMMUG0000007729 ilvB acetolactate synthase like [Source:VGNC Symbol;Acc:VGNC:73739]
ENSMMUG00000057283
ENSMMUG0000008200 Src like adaptor 2 [Source:VGNC Symbol;Acc:VGNC:77499]
ENSMMUG00000013160 DnaJ heat shock protein family (Hsp40) member C17 [Source:VGNC Symbol;Acc:VGNC:84335]
ENSMMUG0000007401 arrestin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:69901]
ENSMMUG00000010173 presenilin 1 [Source:VGNC Symbol;Acc:VGNC:76435]
ENSMMUG00000011650 dual specificity tyrosine phosphorylation regulated kinase 2 [Source:VGNC Symbol;Acc:VGNC:72018]
ENSMMUG00000013283 cadherin related family member 2 [Source:NCBI gene;Acc:697249]
ENSMMUG00000056063
ENSMMUG00000025918 small nucleolar RNA, H/ACA box 38 [Source:HGNC Symbol;Acc:HGNC:32631]
ENSMMUG0000006689 nuclear receptor interacting protein 3 [Source:VGNC Symbol;Acc:VGNC:75397]
ENSMMUG00000013176 NAD(P) dependent steroid dehydrogenase-like [Source:NCBI gene;Acc:693333]
ENSMMUG00000056605 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059700
ENSMMUG0000005737 SLC9A3 regulator 1 [Source:VGNC Symbol;Acc:VGNC:77639]
ENSMMUG00000058557
ENSMMUG0000002566 selenoprotein H [Source:VGNC Symbol;Acc:VGNC:82234]
ENSMMUG00000064095
ENSMMUG00000014720 NCK interacting protein with SH3 domain [Source:VGNC Symbol;Acc:VGNC:74960]
ENSMMUG00000015926 2-oxoglutarate and iron dependent oxygenase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:75462]
ENSMMUG00000016827 UBA domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79837]
ENSMMUG00000003584 mesoderm posterior bHLH transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:74619]
ENSMMUG00000016434 NADH:ubiquinone oxidoreductase complex assembly factor 7 [Source:VGNC Symbol;Acc:VGNC:75035]
ENSMMUG00000059778
ENSMMUG00000060581
ENSMMUG0000005126
ENSMMUG00000050739
ENSMMUG00000002377 Rab interacting lysosomal protein [Source:VGNC Symbol;Acc:VGNC:76866]
ENSMMUG00000003827 albumin [Source:VGNC Symbol;Acc:VGNC:69782]
ENSMMUG00000003591 pleckstrin homology domain containing A2 [Source:VGNC Symbol;Acc:VGNC:76026]
ENSMMUG00000005415 olfactory receptor, family 2, subfamily B, member 3 [Source:NCBI gene;Acc:708747]
ENSMMUG00000063346
ENSMMUG00000050844 BTB domain containing 18 [Source:NCBI gene;Acc:703264]
ENSMMUG00000049542
ENSMMUG00000044048 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000016737 contactin 5 [Source:VGNC Symbol;Acc:VGNC:71287]
ENSMMUG00000052785 extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:NCBI gene;Acc:697071]
ENSMMUG00000020190 valosin containing protein [Source:VGNC Symbol;Acc:VGNC:78762]
ENSMMUG00000055441
ENSMMUG00000024537
ENSMMUG00000065005 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055256 family with sequence similarity 163 member A [Source:NCBI gene;Acc:718704]
ENSMMUG00000008784 lipopolysaccharide induced TNF factor [Source:NCBI gene;Acc:711743]
ENSMMUG00000009437 zinc finger protein 619 [Source:VGNC Symbol;Acc:VGNC:82562]
ENSMMUG00000053722

	ENSMMUG00000053460	
	ENSMMUG00000059335	
	ENSMMUG00000048190	U2 small nuclear RNA auxiliary factor 1 like 4 [Source:NCBI gene;Acc:718865]
	ENSMMUG00000019835	CD5 molecule like [Source:VGNC Symbol;Acc:VGNC:70774]
	ENSMMUG00000018298	killer cell lectin like receptor D1 [Source:NCBI gene;Acc:574145]
	ENSMMUG00000004498	protein inhibitor of activated STAT 2 [Source:VGNC Symbol;Acc:VGNC:75815]
	ENSMMUG00000055906	angiotensin II receptor type 2 [Source:NCBI gene;Acc:709513]
NS_D1 NS_D3 S_D1 S_D3	40 ENSMMUG00000021736	single-pass membrane protein with coiled-coil domains 2 [Source:VGNC Symbol;Acc:VGNC:77808]
	ENSMMUG00000018720	cytoskeleton associated protein 2 [Source:VGNC Symbol;Acc:VGNC:71229]
	ENSMMUG00000020226	WD repeat and SOCS box containing 1 [Source:VGNC Symbol;Acc:VGNC:79186]
	ENSMMUG00000011528	F-box and WD repeat domain containing 5 [Source:VGNC Symbol;Acc:VGNC:72503]
	ENSMMUG00000021017	acylglycerol kinase [Source:VGNC Symbol;Acc:VGNC:69669]
	ENSMMUG00000001220	adhesion G protein-coupled receptor E1 [Source:VGNC Symbol;Acc:VGNC:69561]
	ENSMMUG00000060632	
	ENSMMUG00000060435	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMMUG00000064650	SPEM family member 3 [Source:NCBI gene;Acc:106993878]
	ENSMMUG00000056798	
	ENSMMUG00000054784	
	ENSMMUG00000058621	
	ENSMMUG00000002789	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:NCBI gene;Acc:694803]
	ENSMMUG00000050132	
	ENSMMUG00000064005	
	ENSMMUG00000058587	family with sequence similarity 131 member C [Source:NCBI gene;Acc:703604]
	ENSMMUG00000018478	interferon regulatory factor 5 [Source:VGNC Symbol;Acc:VGNC:73763]
	ENSMMUG00000051420	homeobox B5 [Source:NCBI gene;Acc:696732]
	ENSMMUG00000012523	flotillin 2 [Source:NCBI gene;Acc:114669752]
	ENSMMUG00000012560	HERV-H LTR-associating 1 [Source:NCBI gene;Acc:100430297]
	ENSMMUG00000056796	NADH:ubiquinone oxidoreductase subunit A2 [Source:NCBI gene;Acc:697736]
	ENSMMUG00000001748	spleen associated tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:78063]
	ENSMMUG00000056971	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMMUG00000051329	
	ENSMMUG00000002428	zinc finger protein 800 [Source:VGNC Symbol;Acc:VGNC:79658]
	ENSMMUG00000021408	family with sequence similarity 222 member B [Source:VGNC Symbol;Acc:VGNC:72352]
	ENSMMUG00000003283	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72204]
	ENSMMUG00000019040	hydroxysteroid 17-beta dehydrogenase 13 [Source:VGNC Symbol;Acc:VGNC:73417]
	ENSMMUG00000001269	chromosome 16 C17orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70440]
	ENSMMUG00000065208	
	ENSMMUG00000021554	PHD finger protein 12 [Source:VGNC Symbol;Acc:VGNC:75838]
	ENSMMUG00000054055	zinc finger protein 93 [Source:NCBI gene;Acc:720434]
	ENSMMUG00000060533	
	ENSMMUG00000049802	olfactory receptor 51G1 [Source:NCBI gene;Acc:716561]
	ENSMMUG00000007379	phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase TPTE2-like [Source:NCBI gene;Acc:694255]
	ENSMMUG00000054175	
	ENSMMUG00000052954	Wnt family member 6 [Source:NCBI gene;Acc:700573]
	ENSMMUG00000021553	dehydrogenase/reductase 13 [Source:VGNC Symbol;Acc:VGNC:81387]
	ENSMMUG00000009176	calmodulin binding transcription activator 2 [Source:VGNC Symbol;Acc:VGNC:70578]
	ENSMMUG00000057329	
NS_D2 S_D1 S_D2 S_D3	2 ENSMMUG00000002433	calcium/calmodulin dependent protein kinase II beta [Source:VGNC Symbol;Acc:VGNC:70524]
	ENSMMUG00000008197	netrin G1 [Source:VGNC Symbol;Acc:VGNC:75450]
NS_D2 NS_D3 S_D1 S_D2	4 ENSMMUG00000005997	cell division cycle 14B [Source:NCBI gene;Acc:710300]
	ENSMMUG00000009794	protocadherin related 15 [Source:VGNC Symbol;Acc:VGNC:75608]

		ENSMMUG00000062092	
		ENSMMUG00000055038	
NS_D3 S_D1 S_D2 S_D3	3	ENSMMUG0000004024	cadherin related family member 5 [Source:VGNC Symbol;Acc:VGNC:71158]
		ENSMMUG0000007366	
		ENSMMUG0000009564	NMD3 ribosome export adaptor [Source:VGNC Symbol;Acc:VGNC:75242]
NS_D2 NS_D3 S_D1 S_D3	2	ENSMMUG00000019126	purine nucleoside phosphorylase [Source:NCBI gene;Acc:704183]
		ENSMMUG00000017280	TBC1 domain family member 10C [Source:VGNC Symbol;Acc:VGNC:78203]
NS_D1 NS_D2 S_D2 S_D3	1	ENSMMUG0000005215	Rab9 effector protein with kelch motifs [Source:VGNC Symbol;Acc:VGNC:76495]
NS_D1 NS_D2 NS_D3 S_D2	15	ENSMMUG0000003133	interleukin 4 [Source:VGNC Symbol;Acc:VGNC:73729]
		ENSMMUG00000023192	choline kinase alpha [Source:VGNC Symbol;Acc:VGNC:71039]
		ENSMMUG00000051072	
		ENSMMUG0000006029	odontogenic, ameloblast associated [Source:NCBI gene;Acc:707906]
		ENSMMUG00000015329	MX dynamin like GTPase 1 [Source:VGNC Symbol;Acc:VGNC:75086]
		ENSMMUG00000050419	ADAM metallopeptidase with thrombospondin type 1 motif 4 [Source:NCBI gene;Acc:719927]
		ENSMMUG00000059374	
		ENSMMUG0000004512	Fc fragment of IgE receptor Ig [Source:VGNC Symbol;Acc:VGNC:72629]
		ENSMMUG0000002397	GINS complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:73025]
		ENSMMUG00000055199	cytochrome P450, family 39, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:704242]
		ENSMMUG00000012001	transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:78288]
		ENSMMUG00000064931	
		ENSMMUG00000015097	tripartite motif containing 62 [Source:VGNC Symbol;Acc:VGNC:79513]
		ENSMMUG0000003833	Ras association domain family member 6 [Source:VGNC Symbol;Acc:VGNC:76515]
		ENSMMUG00000052474	
NS_D1 NS_D3 S_D2 S_D3	1	ENSMMUG00000010614	C-C motif chemokine ligand 25 [Source:VGNC Symbol;Acc:VGNC:70700]
NS_D1 NS_D2 NS_D3 S_D3	9	ENSMMUG00000017983	tRNA nucleotidyl transferase 1 [Source:VGNC Symbol;Acc:VGNC:79073]
		ENSMMUG00000011682	ribonuclease P/MRP subunit p21 [Source:NCBI gene;Acc:713056]
		ENSMMUG0000006655	myelin regulatory factor [Source:VGNC Symbol;Acc:VGNC:74949]
		ENSMMUG0000007799	LIM and SH3 protein 1 [Source:VGNC Symbol;Acc:VGNC:74237]
		ENSMMUG00000014131	microtubule affinity regulating kinase 2 [Source:VGNC Symbol;Acc:VGNC:74634]
		ENSMMUG0000005920	N-acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:75133]
		ENSMMUG00000011344	solute carrier family 52 member 1 [Source:VGNC Symbol;Acc:VGNC:77795]
		ENSMMUG0000004749	PPARG coactivator 1 beta [Source:VGNC Symbol;Acc:VGNC:76134]
		ENSMMUG00000023636	importin 7 [Source:NCBI gene;Acc:704213]
NS_D2 NS_D3 S_D2 S_D3	17	ENSMMUG00000008253	zinc finger protein 267 [Source:NCBI gene;Acc:641441]
		ENSMMUG00000001273	clathrin binding box of aftiphilin containing 1 [Source:VGNC Symbol;Acc:VGNC:84325]
		ENSMMUG00000039774	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000000632	SH3 binding domain protein 5 like [Source:VGNC Symbol;Acc:VGNC:77334]
		ENSMMUG00000012526	glycosyltransferase 8 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73001]
		ENSMMUG00000012959	solute carrier family 35 member E1 [Source:VGNC Symbol;Acc:VGNC:77536]
		ENSMMUG00000010318	phosphatidylinositol glycan anchor biosynthesis class Y [Source:NCBI gene;Acc:100426107]
		ENSMMUG00000017605	mitochondrial ribosomal protein L39 [Source:VGNC Symbol;Acc:VGNC:74737]
		ENSMMUG00000044429	glycophorin A (MNS blood group) [Source:NCBI gene;Acc:574101]
		ENSMMUG00000008196	aconitase 1 [Source:VGNC Symbol;Acc:VGNC:69378]
		ENSMMUG00000010316	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:VGNC Symbol;Acc:VGNC:73226]
		ENSMMUG00000001545	aquaporin 7 [Source:NCBI gene;Acc:702836]
		ENSMMUG00000064554	leucine rich repeat neuronal 4 [Source:NCBI gene;Acc:718283]
		ENSMMUG00000009441	abhydrolase domain containing 4 [Source:VGNC Symbol;Acc:VGNC:84296]
		ENSMMUG00000021157	TBC1 domain family member 31 [Source:VGNC Symbol;Acc:VGNC:84121]
		ENSMMUG00000013450	TATA-box binding protein associated factor 6 [Source:VGNC Symbol;Acc:VGNC:78093]
		ENSMMUG00000001475	transmembrane protein with EGF like and two follistatin like domains 2 [Source:VGNC Symbol;Acc:VGNC:78569]
NS_D1 S_D1 S_D2	14	ENSMMUG00000019988	homeodomain interacting protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:73472]

ENSMMUG00000010357 cyclin and CBS domain divalent metal cation transport mediator 1 [Source:NCBI gene;Acc:708335]
ENSMMUG00000022031 DNA polymerase alpha 2, accessory subunit [Source:NCBI gene;Acc:716541]
ENSMMUG00000020009 receptor tyrosine kinase like orphan receptor 2 [Source:VGNC Symbol;Acc:VGNC:76716]
ENSMMUG00000056522
ENSMMUG00000061684
ENSMMUG00000064242
ENSMMUG00000022451 proteasome 20S subunit alpha 2 [Source:NCBI gene;Acc:701683]
ENSMMUG00000018485 methyltransferase like 7A [Source:VGNC Symbol;Acc:VGNC:74567]
ENSMMUG00000051972 zinc finger CCHC-type containing 24 [Source:NCBI gene;Acc:702083]
ENSMMUG00000060675
ENSMMUG00000064892
ENSMMUG00000014864 VPS11 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78965]
ENSMMUG00000021044 afadin, adherens junction formation factor [Source:VGNC Symbol;Acc:VGNC:69818]
43 ENSMMUG00000056186
ENSMMUG00000060808
ENSMMUG00000010886 strawberry notch homolog 2 [Source:VGNC Symbol;Acc:VGNC:77123]
ENSMMUG00000006375 coiled-coil domain containing 15 [Source:NCBI gene;Acc:716362]
ENSMMUG00000007688 angiominin [Source:VGNC Symbol;Acc:VGNC:69627]
ENSMMUG00000053691 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000008839 DExD-box helicase 39B [Source:VGNC Symbol;Acc:VGNC:71621]
ENSMMUG00000052453 serpin family A member 11 [Source:NCBI gene;Acc:701483]
ENSMMUG00000055893
ENSMMUG00000061606 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000003499 solute carrier family 36 member 1 [Source:VGNC Symbol;Acc:VGNC:77509]
ENSMMUG00000063112
ENSMMUG00000053989
ENSMMUG00000019837 ribonuclease H2 subunit C [Source:NCBI gene;Acc:700330]
ENSMMUG00000000198 collagen beta(1-O)galactosyltransferase 1 [Source:NCBI gene;Acc:719980]
ENSMMUG00000057134 keratin, type II cytoskeletal 6C [Source:NCBI gene;Acc:100424162]
ENSMMUG00000059299 membrane spanning 4-domains A2 [Source:NCBI gene;Acc:697830]
ENSMMUG00000016255 telomerase associated protein 1 [Source:VGNC Symbol;Acc:VGNC:78310]
ENSMMUG00000002382 serpin family F member 2 [Source:VGNC Symbol;Acc:VGNC:77372]
ENSMMUG00000056980
ENSMMUG00000006079 leucine rich repeat containing 19 [Source:VGNC Symbol;Acc:VGNC:74337]
ENSMMUG00000007068 tumor suppressor candidate 3 [Source:VGNC Symbol;Acc:VGNC:84132]
ENSMMUG00000044822 coiled-coil domain containing 174 [Source:VGNC Symbol;Acc:VGNC:84219]
ENSMMUG00000063238
ENSMMUG00000029507 adaptor related protein complex 3 subunit sigma 2 [Source:NCBI gene;Acc:701217]
ENSMMUG00000059608 fibroblast growth factor binding protein 3 [Source:NCBI gene;Acc:697881]
ENSMMUG00000056741 ovostatin-like [Source:NCBI gene;Acc:722294]
ENSMMUG00000061845
ENSMMUG00000062474 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000008081 ATP binding cassette subfamily G member 8 [Source:VGNC Symbol;Acc:VGNC:69392]
ENSMMUG00000016465 histone deacetylase 6 [Source:VGNC Symbol;Acc:VGNC:73164]
ENSMMUG00000054621
ENSMMUG00000051363
ENSMMUG00000022785 solute carrier family 66 member 3 [Source:VGNC Symbol;Acc:VGNC:76334]
ENSMMUG00000061603
ENSMMUG00000016237 taxilin gamma [Source:NCBI gene;Acc:713769]
ENSMMUG00000062296 potassium two pore domain channel subfamily K member 6 [Source:NCBI gene;Acc:714912]
ENSMMUG00000057219 tumor protein p53 inducible nuclear protein 1 [Source:NCBI gene;Acc:700632]

NS_D1 NS_D2 S_D1

ENSMMUG00000008651 FGF1 intracellular binding protein [Source:VGNC Symbol;Acc:VGNC:72663]
 ENSMMUG00000004868 dynein axonemal light chain 4 [Source:VGNC Symbol;Acc:VGNC:71945]
 ENSMMUG00000022109 CD163 molecule like 1 [Source:VGNC Symbol;Acc:VGNC:70914]
 ENSMMUG00000006405 secretion regulating guanine nucleotide exchange factor [Source:VGNC Symbol;Acc:VGNC:77258]
 ENSMMUG00000008006 RAB11A, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81517]
 33 ENSMMUG00000009318 BCL9 like [Source:VGNC Symbol;Acc:VGNC:70113]
 ENSMMUG00000055973 phosphoglycerate mutase 1-like [Source:NCBI gene;Acc:714548]
 ENSMMUG00000052851 solute carrier family 7 member 5 [Source:NCBI gene;Acc:695886]
 ENSMMUG00000005776 atlastin GTPase 3 [Source:VGNC Symbol;Acc:VGNC:70125]
 ENSMMUG00000021655 histone deacetylase 7 [Source:NCBI gene;Acc:718225]
 ENSMMUG00000039397 tubulin folding cofactor E like [Source:NCBI gene;Acc:706506]
 ENSMMUG00000000582 NOP58 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75284]
 ENSMMUG00000059491
 ENSMMUG00000014010 RNA binding fox-1 homolog 2 [Source:VGNC Symbol;Acc:VGNC:76685]
 ENSMMUG00000013966 legumain [Source:VGNC Symbol;Acc:VGNC:74274]
 ENSMMUG00000022345
 ENSMMUG00000009381 WW domain binding protein 2 [Source:VGNC Symbol;Acc:VGNC:78786]
 ENSMMUG00000022931 NTPase KAP family P-loop domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75250]
 ENSMMUG00000023032 intraflagellar transport 81 [Source:VGNC Symbol;Acc:VGNC:73389]
 ENSMMUG00000008566 zinc finger protein 157 [Source:VGNC Symbol;Acc:VGNC:78850]
 ENSMMUG00000001944 chromosome 20 C16orf72 homolog [Source:VGNC Symbol;Acc:VGNC:70443]
 ENSMMUG00000059777
 ENSMMUG00000002923 colony stimulating factor 3 [Source:VGNC Symbol;Acc:VGNC:71520]
 ENSMMUG00000016894 ribosomal protein S25 [Source:NCBI gene;Acc:702593]
 ENSMMUG00000015477 lemur tyrosine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74309]
 ENSMMUG00000013397 peroxiredoxin 5 [Source:NCBI gene;Acc:719764]
 ENSMMUG00000054377
 ENSMMUG00000052530
 ENSMMUG00000062083
 ENSMMUG00000059036
 ENSMMUG00000051323 caspase-14-like [Source:NCBI gene;Acc:702430]
 ENSMMUG00000032142 complement C8 gamma chain [Source:VGNC Symbol;Acc:VGNC:70481]
 ENSMMUG00000048395 chromobox 6 [Source:NCBI gene;Acc:702133]
 ENSMMUG00000011767 carnitine O-acetyltransferase [Source:VGNC Symbol;Acc:VGNC:71483]
 ENSMMUG00000058237
 ENSMMUG00000047219
 ENSMMUG00000002822 unc-13 homolog D [Source:VGNC Symbol;Acc:VGNC:79375]
 ENSMMUG00000054512
 47 ENSMMUG00000008160 neutrophil cytosolic factor 4 [Source:VGNC Symbol;Acc:VGNC:75141]
 ENSMMUG00000004910 dynein axonemal light chain 1 [Source:VGNC Symbol;Acc:VGNC:71885]
 ENSMMUG00000059087
 ENSMMUG00000052961
 ENSMMUG00000049432 olfactory receptor 2T33 [Source:NCBI gene;Acc:706331]
 ENSMMUG00000018471 serine/threonine kinase 33 [Source:VGNC Symbol;Acc:VGNC:78118]
 ENSMMUG00000001739 ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2 [Source:VGNC Symbol;Acc:VGNC:70178]
 ENSMMUG00000006470 complement C1r subcomponent [Source:NCBI gene;Acc:722133]
 ENSMMUG00000005480 carnosine synthase 1 [Source:VGNC Symbol;Acc:VGNC:81367]
 ENSMMUG00000016442 glutaminyl-peptide cyclotransferase [Source:VGNC Symbol;Acc:VGNC:76636]
 ENSMMUG00000016099 hedgehog acyltransferase [Source:NCBI gene;Acc:712333]
 ENSMMUG00000053406
 ENSMMUG00000028471 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]

NS_D1 S_D1 S_D3

NS_D1 NS_D3 S_D1

ENSMMUG00000059302 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG0000006233 adducin 3 [Source:VGNC Symbol;Acc:VGNC:69531]
 ENSMMUG00000022633 replication initiator 1 [Source:VGNC Symbol;Acc:VGNC:76758]
 ENSMMUG00000020916 coiled-coil domain containing 158 [Source:NCBI gene;Acc:699735]
 ENSMMUG0000000953 family with sequence similarity 207 member A [Source:VGNC Symbol;Acc:VGNC:72273]
 ENSMMUG00000058758
 ENSMMUG00000003199 CD200 receptor 1 [Source:VGNC Symbol;Acc:VGNC:70845]
 ENSMMUG00000049543
 ENSMMUG00000052828
 ENSMMUG00000012316 CDC42 effector protein 2 [Source:VGNC Symbol;Acc:VGNC:70750]
 ENSMMUG00000010678 oxytocin/neurophysin I prepropeptide [Source:VGNC Symbol;Acc:VGNC:75730]
 ENSMMUG00000001616 peptidyl arginine deiminase 2 [Source:VGNC Symbol;Acc:VGNC:75644]
 ENSMMUG00000053625 sterol-C5-desaturase [Source:NCBI gene;Acc:706827]
 ENSMMUG0000006086 pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:VGNC Symbol;Acc:VGNC:76113]
 ENSMMUG00000049479
 ENSMMUG00000058907
 ENSMMUG00000054184 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000014866 hydroxymethylbilane synthase [Source:VGNC Symbol;Acc:VGNC:73479]
 ENSMMUG00000058700 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000000757 ring finger protein 114 [Source:VGNC Symbol;Acc:VGNC:76725]
 ENSMMUG00000035748 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000022933 DNA topoisomerase I mitochondrial [Source:VGNC Symbol;Acc:VGNC:79821]
 ENSMMUG00000002953 MAGE family member F1 [Source:VGNC Symbol;Acc:VGNC:74399]
 ENSMMUG00000059292
 ENSMMUG00000016401 SGT1 homolog, MIS12 kinetochore complex assembly cochaperone [Source:NCBI gene;Acc:694046]
 ENSMMUG00000062628
 ENSMMUG00000015306 calponin 2 [Source:NCBI gene;Acc:721164]
 ENSMMUG00000020258 E2F transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72025]
 ENSMMUG00000005992 zinc metallopeptidase STE24 [Source:VGNC Symbol;Acc:VGNC:78830]
 ENSMMUG00000032180 RLF zinc finger [Source:VGNC Symbol;Acc:VGNC:76699]
 ENSMMUG00000049298 cholecystokinin A receptor [Source:NCBI gene;Acc:694742]
 ENSMMUG00000064341 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000044496 H2A histone family, member X [Source:NCBI gene;Acc:703073]
 ENSMMUG00000059134
 NS_D2 S_D1 S_D2 4 ENSMMUG00000014897 ribonucleoprotein, PTB binding 1 [Source:NCBI gene;Acc:715250]
 ENSMMUG00000064463
 ENSMMUG00000000566
 S_D1 S_D2 S_D3 9 ENSMMUG00000058326 neuralized E3 ubiquitin protein ligase 2 [Source:NCBI gene;Acc:708904]
 ENSMMUG00000046186 stanniocalcin 1 [Source:VGNC Symbol;Acc:VGNC:84120]
 ENSMMUG00000050868
 ENSMMUG00000012039 cytochrome b5 type B (outer mitochondrial membrane) [Source:NCBI gene;Acc:705093]
 ENSMMUG00000014123 alanyl-tRNA editing protein Aarsd1 [Source:NCBI gene;Acc:712203]
 ENSMMUG00000065269 Rho family GTPase 2 [Source:NCBI gene;Acc:712559]
 ENSMMUG00000042951 signal recognition particle 19 [Source:NCBI gene;Acc:693829]
 ENSMMUG00000038067
 ENSMMUG00000010869 nucleoporin 160 [Source:VGNC Symbol;Acc:VGNC:75429]
 ENSMMUG00000055290 netrin 1 [Source:NCBI gene;Acc:717645]
 NS_D3 S_D1 S_D2 1 ENSMMUG00000016001 vesicle amine transport 1 [Source:VGNC Symbol;Acc:VGNC:79058]
 NS_D2 NS_D3 S_D1 3 ENSMMUG00000003750 PLAG1 like zinc finger 1 [Source:VGNC Symbol;Acc:VGNC:83444]
 ENSMMUG00000064401
 ENSMMUG00000060437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

NS_D3 S_D1 S_D3	6	ENSMMUG0000001910	heat shock protein family B (small) member 7 [Source:NCBI gene;Acc:696704]
		ENSMMUG00000057095	
		ENSMMUG0000001943	GRAM domain containing 1C [Source:VGNC Symbol;Acc:VGNC:73007]
		ENSMMUG00000064694	AHNAK nucleoprotein 2 [Source:NCBI gene;Acc:707626]
		ENSMMUG00000005793	ankyrin repeat and fibronectin type III domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69712]
NS_D1 NS_D2 S_D2	10	ENSMMUG00000002741	gasdermin B [Source:VGNC Symbol;Acc:VGNC:73219]
		ENSMMUG00000012787	CUB and Sushi multiple domains 2 [Source:VGNC Symbol;Acc:VGNC:71441]
		ENSMMUG00000012787	acid phosphatase 7, tartrate resistant (putative) [Source:NCBI gene;Acc:695532]
		ENSMMUG00000002483	citrate synthase [Source:VGNC Symbol;Acc:VGNC:71509]
		ENSMMUG000000058110	
		ENSMMUG00000000590	NPR3 like, GATOR1 complex subunit [Source:VGNC Symbol;Acc:VGNC:75173]
		ENSMMUG00000004042	Fc receptor like A [Source:VGNC Symbol;Acc:VGNC:72526]
		ENSMMUG00000001690	calponin 3 [Source:VGNC Symbol;Acc:VGNC:71278]
		ENSMMUG00000005668	kynurenine 3-monooxygenase [Source:VGNC Symbol;Acc:VGNC:74197]
		ENSMMUG00000062583	olfactory receptor 1A1 [Source:NCBI gene;Acc:721403]
NS_D1 NS_D2 S_D3	2	ENSMMUG00000063121	
		ENSMMUG00000000894	cellular inhibitor of PP2A [Source:VGNC Symbol;Acc:VGNC:71371]
NS_D1 NS_D2 NS_D3	90	ENSMMUG00000028906	Rho/Rac guanine nucleotide exchange factor 18 [Source:NCBI gene;Acc:707510]
		ENSMMUG00000000376	bridging integrator 1 [Source:VGNC Symbol;Acc:VGNC:70251]
		ENSMMUG00000004982	activin A receptor like type 1 [Source:VGNC Symbol;Acc:VGNC:69451]
		ENSMMUG00000017654	arrestin beta 2 [Source:VGNC Symbol;Acc:VGNC:70022]
		ENSMMUG00000021357	zinc finger BED-type containing 3 [Source:VGNC Symbol;Acc:VGNC:79271]
		ENSMMUG00000056168	
		ENSMMUG00000022246	PDZ and LIM domain 5 [Source:VGNC Symbol;Acc:VGNC:75816]
		ENSMMUG00000032659	mml-mir-711 [Source:miRBase;Acc:MI0012553]
		ENSMMUG00000023797	post-GPI attachment to proteins GalNAc transferase 4 [Source:VGNC Symbol;Acc:VGNC:79688]
		ENSMMUG00000054225	taste receptor type 2 member 43 [Source:NCBI gene;Acc:694161]
		ENSMMUG00000029186	exocyst complex component 3 like 4 [Source:VGNC Symbol;Acc:VGNC:72305]
		ENSMMUG00000053329	
		ENSMMUG00000009308	histidine ammonia-lyase [Source:VGNC Symbol;Acc:VGNC:73344]
		ENSMMUG00000019607	patatin like phospholipase domain containing 7 [Source:VGNC Symbol;Acc:VGNC:76104]
		ENSMMUG00000062496	
		ENSMMUG00000018030	endoplasmic reticulum protein 27 [Source:VGNC Symbol;Acc:VGNC:72369]
		ENSMMUG00000058472	late cornified envelope protein 1C [Source:NCBI gene;Acc:107000798]
		ENSMMUG00000015952	katanin catalytic subunit A1 like 2 [Source:VGNC Symbol;Acc:VGNC:73904]
		ENSMMUG00000054449	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000061797	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
		ENSMMUG00000044581	modulator of apoptosis 1 [Source:VGNC Symbol;Acc:VGNC:84392]
		ENSMMUG00000017740	sperm mitochondria associated cysteine rich protein [Source:VGNC Symbol;Acc:VGNC:77816]
		ENSMMUG00000056924	G protein-coupled receptor 149 [Source:NCBI gene;Acc:106997054]
		ENSMMUG00000022381	prolyl 3-hydroxylase 1 [Source:VGNC Symbol;Acc:VGNC:75648]
		ENSMMUG00000049551	
		ENSMMUG00000054472	
		ENSMMUG00000019933	TatD DNase domain containing 2 [Source:NCBI gene;Acc:701390]
		ENSMMUG00000058935	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000017927	protein kinase D2 [Source:VGNC Symbol;Acc:VGNC:76273]
		ENSMMUG00000061833	transmembrane protein 251 [Source:NCBI gene;Acc:708131]
	ENSMMUG00000010556	Snf2 related CREBBP activator protein [Source:NCBI gene;Acc:712944]	
	ENSMMUG00000000544	collagen type VI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:82084]	
	ENSMMUG00000058095	visual system homeobox 1 [Source:NCBI gene;Acc:715973]	

ENSMMUG00000043648
ENSMMUG00000010881 cytochrome P450, family 26, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:699519]
ENSMMUG00000053656
ENSMMUG00000058370 taste receptor type 2 member 62 [Source:NCBI gene;Acc:704388]
ENSMMUG00000054286
ENSMMUG00000017242 MYCBP associated protein [Source:VGNC Symbol;Acc:VGNC:74994]
ENSMMUG00000060596 BCL2 associated agonist of cell death [Source:NCBI gene;Acc:717740]
ENSMMUG00000019306 indoleamine 2,3-dioxygenase 2 [Source:VGNC Symbol;Acc:VGNC:84005]
ENSMMUG00000060555
ENSMMUG00000055266 late cornified envelope protein 1C-like [Source:NCBI gene;Acc:107000794]
ENSMMUG00000031684 KRAB box domain containing 1 [Source:NCBI gene;Acc:717189]
ENSMMUG00000041519 zinc finger protein 354A [Source:VGNC Symbol;Acc:VGNC:84517]
ENSMMUG00000064014
ENSMMUG00000022348 surfeit 4 [Source:VGNC Symbol;Acc:VGNC:78060]
ENSMMUG00000059932 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060750 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000053561
ENSMMUG00000002563 zinc finger DHHC-type palmitoyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:79145]
ENSMMUG00000000023 prostaglandin E receptor 2 [Source:VGNC Symbol;Acc:VGNC:76468]
ENSMMUG00000040071
ENSMMUG00000005380 zinc finger protein 827 [Source:NCBI gene;Acc:706018]
ENSMMUG00000015303 ATP binding cassette subfamily A member 7 [Source:VGNC Symbol;Acc:VGNC:69567]
ENSMMUG00000015258 glycine C-acetyltransferase [Source:NCBI gene;Acc:698811]
ENSMMUG00000009953 ninein like [Source:VGNC Symbol;Acc:VGNC:75273]
ENSMMUG00000064915 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050529 phosphodiesterase 6H [Source:NCBI gene;Acc:700447]
ENSMMUG00000005440 ELMO domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72109]
ENSMMUG00000023598 sorting nexin 2 [Source:VGNC Symbol;Acc:VGNC:77682]
ENSMMUG00000026975 mml-mir-206 [Source:miRBase;Acc:MI0007667]
ENSMMUG00000019032 EMAP like 2 [Source:NCBI gene;Acc:715009]
ENSMMUG00000042618 involucrin [Source:NCBI gene;Acc:713728]
ENSMMUG00000051852 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056511
ENSMMUG00000054634 late cornified envelope protein 1C-like [Source:NCBI gene;Acc:713600]
ENSMMUG00000017930 striatin 4 [Source:VGNC Symbol;Acc:VGNC:78128]
ENSMMUG00000022116 PIH1 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:75868]
ENSMMUG00000061474
ENSMMUG00000001380 outer dense fiber of sperm tails 2 like [Source:VGNC Symbol;Acc:VGNC:75482]
ENSMMUG00000006941 exportin 1 [Source:VGNC Symbol;Acc:VGNC:78812]
ENSMMUG00000014707 cadherin EGF LAG seven-pass G-type receptor 3 [Source:VGNC Symbol;Acc:VGNC:71148]
ENSMMUG00000031540 purinergic receptor P2Y1 [Source:VGNC Symbol;Acc:VGNC:75737]
ENSMMUG00000042407
ENSMMUG00000003658 autophagy related 2B [Source:VGNC Symbol;Acc:VGNC:84310]
ENSMMUG00000017971 nucleus accumbens associated 1 [Source:VGNC Symbol;Acc:VGNC:74996]
ENSMMUG00000018648 zinc finger protein 594 [Source:NCBI gene;Acc:711492]
ENSMMUG00000000152 transcription factor CP2 [Source:VGNC Symbol;Acc:VGNC:78323]
ENSMMUG00000017209 C1D nuclear receptor corepressor [Source:NCBI gene;Acc:698450]
ENSMMUG00000064174
ENSMMUG00000029420
ENSMMUG00000043738
ENSMMUG00000011564 transmembrane channel like 3 [Source:VGNC Symbol;Acc:VGNC:79360]

		ENSMMUG0000000452	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated [Source:NCBI gene;Acc:721486]
		ENSMMUG00000039943	adenylate cyclase 9 [Source:NCBI gene;Acc:706789]
		ENSMMUG00000023345	adhesion G protein-coupled receptor L4 [Source:VGNC Symbol;Acc:VGNC:69652]
		ENSMMUG00000054736	
		ENSMMUG00000017450	MOB kinase activator 2 [Source:NCBI gene;Acc:720951]
		ENSMMUG00000050799	
NS_D1 NS_D3 S_D3	3	ENSMMUG00000014508	potassium channel tetramerization domain containing 20 [Source:VGNC Symbol;Acc:VGNC:73872]
		ENSMMUG00000000196	niban apoptosis regulator 3 [Source:VGNC Symbol;Acc:VGNC:75241]
		ENSMMUG00000060000	
NS_D2 S_D2 S_D3	3	ENSMMUG00000055096	
		ENSMMUG00000009788	tubulin alpha-1C chain [Source:NCBI gene;Acc:710110]
		ENSMMUG00000004435	two pore segment channel 1 [Source:VGNC Symbol;Acc:VGNC:79117]
NS_D2 NS_D3 S_D2	23	ENSMMUG00000005106	unc-45 myosin chaperone A [Source:VGNC Symbol;Acc:VGNC:79858]
		ENSMMUG00000021062	CD177 molecule [Source:VGNC Symbol;Acc:VGNC:70912]
		ENSMMUG00000003568	testis expressed 101 [Source:VGNC Symbol;Acc:VGNC:79869]
		ENSMMUG00000037175	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
		ENSMMUG00000020980	ubiquitin like modifier activating enzyme 7 [Source:VGNC Symbol;Acc:VGNC:78690]
		ENSMMUG00000010526	calcium voltage-gated channel auxiliary subunit beta 4 [Source:VGNC Symbol;Acc:VGNC:82116]
		ENSMMUG00000002430	YKT6 v-SNARE homolog [Source:VGNC Symbol;Acc:VGNC:81796]
		ENSMMUG00000010521	ADP ribosylation factor like GTPase 5A [Source:VGNC Symbol;Acc:VGNC:70017]
		ENSMMUG00000014766	neuroguidin [Source:VGNC Symbol;Acc:VGNC:75220]
		ENSMMUG00000007603	coiled-coil domain containing 88B [Source:NCBI gene;Acc:722080]
		ENSMMUG00000006723	solute carrier family 8 member B1 [Source:NCBI gene;Acc:714561]
		ENSMMUG00000017501	N-acylethanolamine acid amidase [Source:VGNC Symbol;Acc:VGNC:75068]
		ENSMMUG00000016476	TRAF interacting protein [Source:VGNC Symbol;Acc:VGNC:82261]
		ENSMMUG00000063351	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000011914	prospero homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76427]
		ENSMMUG00000002330	ecto-NOX disulfide-thiol exchanger 1 [Source:VGNC Symbol;Acc:VGNC:72110]
		ENSMMUG00000063590	
		ENSMMUG00000029034	defensin beta 136 [Source:VGNC Symbol;Acc:VGNC:71826]
		ENSMMUG00000020580	RPGRIP1 like [Source:VGNC Symbol;Acc:VGNC:77124]
		ENSMMUG00000009201	abhydrolase domain containing 12 [Source:VGNC Symbol;Acc:VGNC:69411]
		ENSMMUG00000020979	inka box actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:73692]
		ENSMMUG00000001761	myosin IB [Source:VGNC Symbol;Acc:VGNC:75111]
		ENSMMUG00000003668	GTPase activating protein and VPS9 domains 1 [Source:VGNC Symbol;Acc:VGNC:72767]
NS_D3 S_D2 S_D3	1	ENSMMUG00000059985	
NS_D2 NS_D3 S_D3	8	ENSMMUG00000018151	membrane palmitoylated protein 4 [Source:VGNC Symbol;Acc:VGNC:74734]
		ENSMMUG00000053627	
		ENSMMUG00000019961	protein phosphatase 1 regulatory subunit 18 [Source:NCBI gene;Acc:712176]
		ENSMMUG00000017370	signal peptidase complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:84072]
		ENSMMUG00000006936	gastric inhibitory polypeptide receptor [Source:VGNC Symbol;Acc:VGNC:73052]
		ENSMMUG00000065319	
		ENSMMUG00000031785	
		ENSMMUG00000052047	
NS_D1 S_D1	202	ENSMMUG00000049514	solute carrier family 48 member 1 [Source:NCBI gene;Acc:704304]
		ENSMMUG00000028785	zinc finger protein 146 [Source:VGNC Symbol;Acc:VGNC:78846]
		ENSMMUG00000049548	
		ENSMMUG00000003482	glycine receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:73075]
		ENSMMUG00000010586	mesoderm posterior bHLH transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:74618]
		ENSMMUG00000050057	
		ENSMMUG00000064122	

ENSMMUG00000035888 small nucleolar RNA, C/D box 121A [Source:HGNC Symbol;Acc:HGNC:33560]
ENSMMUG00000058162
ENSMMUG00000062755
ENSMMUG00000014880 sortilin related receptor 1 [Source:NCBI gene;Acc:713011]
ENSMMUG00000028771 Yip1 interacting factor homolog B, membrane trafficking protein [Source:VGNC Symbol;Acc:VGNC:79852]
ENSMMUG00000054398
ENSMMUG00000021418 ATPase H+ transporting V1 subunit D [Source:VGNC Symbol;Acc:VGNC:70060]
ENSMMUG0000002278 AT-rich interaction domain 3A [Source:VGNC Symbol;Acc:VGNC:69930]
ENSMMUG00000014407 magnesium transporter 1 [Source:VGNC Symbol;Acc:VGNC:74386]
ENSMMUG00000020489 HscB mitochondrial iron-sulfur cluster cochaperone [Source:VGNC Symbol;Acc:VGNC:73454]
ENSMMUG00000054486 testis expressed 35 [Source:NCBI gene;Acc:717255]
ENSMMUG00000001880 DExD/H-box helicase 60 [Source:VGNC Symbol;Acc:VGNC:71711]
ENSMMUG00000064026 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000059442
ENSMMUG00000008126 lysine demethylase 7A [Source:VGNC Symbol;Acc:VGNC:73886]
ENSMMUG00000019802 family with sequence similarity 133 member B [Source:NCBI gene;Acc:702054]
ENSMMUG00000048076 TNF receptor superfamily member 10b [Source:NCBI gene;Acc:716650]
ENSMMUG00000045203
ENSMMUG00000020919 shroom family member 3 [Source:VGNC Symbol;Acc:VGNC:77352]
ENSMMUG00000062055 glyoxalase I [Source:NCBI gene;Acc:719518]
ENSMMUG00000014149 LYN proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:74464]
ENSMMUG00000059589
ENSMMUG00000010513 ribulose-5-phosphate-3-epimerase [Source:NCBI gene;Acc:711322]
ENSMMUG00000056749 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000011061 ankyrin repeat domain 31 [Source:VGNC Symbol;Acc:VGNC:84277]
ENSMMUG00000050119
ENSMMUG00000014425 protein kinase C epsilon [Source:VGNC Symbol;Acc:VGNC:76412]
ENSMMUG00000016655 R3H domain and coiled-coil containing 1 [Source:VGNC Symbol;Acc:VGNC:76551]
ENSMMUG00000009368 Abelson helper integration site 1 [Source:VGNC Symbol;Acc:VGNC:81010]
ENSMMUG00000008843 lymphotoxin alpha [Source:VGNC Symbol;Acc:VGNC:74452]
ENSMMUG00000061123 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000011527 TNF receptor associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78641]
ENSMMUG00000015908 RB binding protein 6, ubiquitin ligase [Source:VGNC Symbol;Acc:VGNC:76677]
ENSMMUG00000049305 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000005939 serpin family I member 1 [Source:VGNC Symbol;Acc:VGNC:77366]
ENSMMUG00000055209
ENSMMUG00000052195
ENSMMUG00000003067 endoplasmic reticulum-golgi intermediate compartment 1 [Source:VGNC Symbol;Acc:VGNC:82141]
ENSMMUG00000007540 Rho related BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76772]
ENSMMUG00000012529 pleckstrin homology domain containing A8 [Source:VGNC Symbol;Acc:VGNC:81741]
ENSMMUG00000018910 histidine rich glycoprotein [Source:VGNC Symbol;Acc:VGNC:73521]
ENSMMUG00000015922 formin binding protein 1 like [Source:VGNC Symbol;Acc:VGNC:72543]
ENSMMUG00000029455 olfactory receptor 4Q2 [Source:NCBI gene;Acc:114679271]
ENSMMUG00000053489
ENSMMUG00000007402 potassium two pore domain channel subfamily K member 7 [Source:VGNC Symbol;Acc:VGNC:73996]
ENSMMUG00000029638 chromosome 7 C15orf65 homolog [Source:VGNC Symbol;Acc:VGNC:70689]
ENSMMUG00000051879 CAP-Gly domain containing linker protein 3 [Source:NCBI gene;Acc:712058]
ENSMMUG00000015611 proteasome 26S subunit, ATPase 3 [Source:NCBI gene;Acc:713356]
ENSMMUG00000020854 C-type lectin domain family 4 member F [Source:VGNC Symbol;Acc:VGNC:71349]
ENSMMUG00000019369 pleckstrin homology and RhoGEF domain containing G2 [Source:VGNC Symbol;Acc:VGNC:76133]
ENSMMUG00000016085 KxDL motif containing 1 [Source:NCBI gene;Acc:720235]

ENSMMUG00000039205
ENSMMUG00000053200 ubiquitin conjugating enzyme E2 R2 [Source:NCBI gene;Acc:701507]
ENSMMUG00000053254 adenylate kinase 4 [Source:NCBI gene;Acc:698560]
ENSMMUG00000038989 erythropoietin receptor [Source:NCBI gene;Acc:714546]
ENSMMUG00000013901 mitogen-activated protein kinase kinase kinase 3 [Source:VGNC Symbol;Acc:VGNC:81466]
ENSMMUG00000052238
ENSMMUG00000004477 solute carrier family 19 member 1 [Source:VGNC Symbol;Acc:VGNC:77408]
ENSMMUG00000009825 zinc finger DHHC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79102]
ENSMMUG00000015288 adaptor related protein complex 3 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:69867]
ENSMMUG00000012469 KIAA2013 [Source:VGNC Symbol;Acc:VGNC:73918]
ENSMMUG00000015513 CUGBP Elav-like family member 5 [Source:NCBI gene;Acc:721694]
ENSMMUG00000005236 zinc finger protein 709 [Source:NCBI gene;Acc:717515]
ENSMMUG00000015606 Spi-1 proto-oncogene [Source:NCBI gene;Acc:712010]
ENSMMUG00000008184 methyltransferase like 24 [Source:VGNC Symbol;Acc:VGNC:74552]
ENSMMUG00000003140 RELT TNF receptor [Source:VGNC Symbol;Acc:VGNC:76728]
ENSMMUG00000000381 IKAROS family zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:73586]
ENSMMUG00000005986 Kruppel like factor 17 [Source:NCBI gene;Acc:702810]
ENSMMUG000000056729 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG000000056707
ENSMMUG000000062273 dephospho-CoA kinase domain containing [Source:NCBI gene;Acc:715841]
ENSMMUG00000003355 lipid droplet associated hydrolase [Source:VGNC Symbol;Acc:VGNC:74130]
ENSMMUG000000056593
ENSMMUG00000003400 baculoviral IAP repeat containing 2 [Source:NCBI gene;Acc:702592]
ENSMMUG00000007760 centrosomal protein 70 [Source:VGNC Symbol;Acc:VGNC:71140]
ENSMMUG000000063820 olfactory receptor, family 52, subfamily M, member 1 [Source:NCBI gene;Acc:717723]
ENSMMUG00000011347 DEAH-box helicase 36 [Source:VGNC Symbol;Acc:VGNC:71623]
ENSMMUG00000000629 serpin family C member 1 [Source:VGNC Symbol;Acc:VGNC:77360]
ENSMMUG00000001534 calpain 3 [Source:VGNC Symbol;Acc:VGNC:70533]
ENSMMUG00000001715 zinc finger protein 627 [Source:VGNC Symbol;Acc:VGNC:79856]
ENSMMUG00000015572 GSG1 like [Source:VGNC Symbol;Acc:VGNC:82152]
ENSMMUG000000049998 tachykinin receptor 3 [Source:NCBI gene;Acc:653013]
ENSMMUG00000015871 zinc finger FYVE-type containing 26 [Source:VGNC Symbol;Acc:VGNC:79283]
ENSMMUG00000006130 prolyl 4-hydroxylase, transmembrane [Source:VGNC Symbol;Acc:VGNC:75693]
ENSMMUG00000016772 solute carrier family 28 member 1 [Source:VGNC Symbol;Acc:VGNC:77444]
ENSMMUG00000005845 REST corepressor 1 [Source:VGNC Symbol;Acc:VGNC:76752]
ENSMMUG00000005685 pseudouridine synthase 10 [Source:VGNC Symbol;Acc:VGNC:76547]
ENSMMUG000000057909
ENSMMUG00000013048 junction plakoglobin [Source:VGNC Symbol;Acc:VGNC:73960]
ENSMMUG00000020488 receptor accessory protein 5 [Source:VGNC Symbol;Acc:VGNC:76864]
ENSMMUG00000001532 glucosidase alpha, neutral C [Source:NCBI gene;Acc:708126]
ENSMMUG000000052184 inka box actin regulator 2 [Source:NCBI gene;Acc:704844]
ENSMMUG00000017260 G protein-coupled receptor 65 [Source:VGNC Symbol;Acc:VGNC:73140]
ENSMMUG00000010336 DOP1 leucine zipper like protein B [Source:VGNC Symbol;Acc:VGNC:71832]
ENSMMUG000000055012
ENSMMUG00000015861 cytochrome c oxidase subunit VIIb [Source:NCBI gene;Acc:706099]
ENSMMUG00000006101 myosin heavy chain 9 [Source:VGNC Symbol;Acc:VGNC:75102]
ENSMMUG00000020515 adhesion G protein-coupled receptor G2 [Source:VGNC Symbol;Acc:VGNC:69802]
ENSMMUG00000014409 ankyrin repeat domain 13B [Source:VGNC Symbol;Acc:VGNC:69708]
ENSMMUG00000013646 unk zinc finger [Source:VGNC Symbol;Acc:VGNC:79803]
ENSMMUG000000054816 interleukin 1 receptor associated kinase 3 [Source:NCBI gene;Acc:717845]
ENSMMUG00000017124 spliceosome associated factor 3, U4/U6 recycling protein [Source:VGNC Symbol;Acc:VGNC:77029]

ENSMMUG00000056437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000026474 Small nucleolar RNA SNORD83 [Source:RFAM;Acc:RF00137]
ENSMMUG00000062175 carboxypeptidase B1 [Source:NCBI gene;Acc:712639]
ENSMMUG00000048463 apolipoprotein L5 [Source:HGNC Symbol;Acc:HGNC:14869]
ENSMMUG00000039520 chromosome 11 C12orf43 homolog [Source:NCBI gene;Acc:698821]
ENSMMUG00000013766 prostaglandin E synthase 3 [Source:NCBI gene;Acc:713353]
ENSMMUG00000060484 heterogeneous nuclear ribonucleoprotein D [Source:NCBI gene;Acc:694867]
ENSMMUG00000045959
ENSMMUG00000063383
ENSMMUG00000065129
ENSMMUG00000042378 pseudopodium enriched atypical kinase 1 [Source:VGNC Symbol;Acc:VGNC:84419]
ENSMMUG00000019703 RUN and FYVE domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77057]
ENSMMUG00000001427 myosin heavy chain 14 [Source:VGNC Symbol;Acc:VGNC:75006]
ENSMMUG00000060754 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051170
ENSMMUG00000058106 otoconin 90 [Source:NCBI gene;Acc:100429699]
ENSMMUG00000019095 TBC1 domain family member 24 [Source:NCBI gene;Acc:697106]
ENSMMUG00000005991 TRIO and F-actin binding protein [Source:NCBI gene;Acc:701241]
ENSMMUG00000056342 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000011472 PWWP domain containing 2A [Source:VGNC Symbol;Acc:VGNC:76564]
ENSMMUG00000010515 KAT8 regulatory NSL complex subunit 1 like [Source:VGNC Symbol;Acc:VGNC:73913]
ENSMMUG00000054159 lymphocyte antigen 6 family member G5C [Source:VGNC Symbol;Acc:VGNC:83431]
ENSMMUG00000032030 dolichyldiphosphatase 1 [Source:VGNC Symbol;Acc:VGNC:71947]
ENSMMUG00000020346 carboxypeptidase X, M14 family member 2 [Source:VGNC Symbol;Acc:VGNC:71596]
ENSMMUG00000002324
ENSMMUG00000046099 chromosome 19 C19orf81 homolog [Source:NCBI gene;Acc:719661]
ENSMMUG00000038998 purinergic receptor P2Y13 [Source:VGNC Symbol;Acc:VGNC:83950]
ENSMMUG00000055589
ENSMMUG00000005698 alkaline ceramidase 1 [Source:VGNC Symbol;Acc:VGNC:69460]
ENSMMUG00000026243 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000002033 serine protease 36 [Source:VGNC Symbol;Acc:VGNC:76325]
ENSMMUG00000056905
ENSMMUG00000061021
ENSMMUG00000022741 WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79900]
ENSMMUG00000004472 collagen type XVIII alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81291]
ENSMMUG00000010536 discs large MAGUK scaffold protein 4 [Source:VGNC Symbol;Acc:VGNC:71920]
ENSMMUG00000019966 zinc finger protein 557 [Source:NCBI gene;Acc:100424983]
ENSMMUG00000049862
ENSMMUG00000030891 hypoxia up-regulated 1 [Source:VGNC Symbol;Acc:VGNC:73399]
ENSMMUG00000064226
ENSMMUG00000061244
ENSMMUG00000012841 kallikrein 3 [Source:NCBI gene;Acc:719444]
ENSMMUG00000001105 purinergic receptor P2Y12 [Source:VGNC Symbol;Acc:VGNC:75642]
ENSMMUG00000004843 sodium voltage-gated channel beta subunit 1 [Source:VGNC Symbol;Acc:VGNC:76983]
ENSMMUG00000057452
ENSMMUG00000063947 oxoeicosanoid receptor 1 [Source:NCBI gene;Acc:713039]
ENSMMUG00000056109 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000012466 BCL2 binding component 3 [Source:NCBI gene;Acc:717955]
ENSMMUG00000058042 heparan sulfate-glucosamine 3-sulfotransferase 2 [Source:NCBI gene;Acc:699722]
ENSMMUG00000049508
ENSMMUG00000062208 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000012068 signal induced proliferation associated 1 like 2 [Source:NCBI gene;Acc:100425123]
 ENSMMUG00000015930 ADP ribosylation factor like GTPase 6 interacting protein 4 [Source:VGNC Symbol;Acc:VGNC:69860]
 ENSMMUG00000005270 ryanodine receptor 3 [Source:NCBI gene;Acc:694996]
 ENSMMUG00000019172 spectrin beta, erythrocytic [Source:VGNC Symbol;Acc:VGNC:77870]
 ENSMMUG00000015054 ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:69844]
 ENSMMUG00000015108 SV2 related protein [Source:VGNC Symbol;Acc:VGNC:78208]
 ENSMMUG00000023761 ectonucleoside triphosphate diphosphohydrolase 7 [Source:VGNC Symbol;Acc:VGNC:72071]
 ENSMMUG00000000591 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:VGNC Symbol;Acc:VGNC:75960]
 ENSMMUG00000056529 synaptotagmin 3 [Source:NCBI gene;Acc:719650]
 ENSMMUG00000006293 SAP domain containing ribonucleoprotein [Source:NCBI gene;Acc:709932]
 ENSMMUG00000016454 4-hydroxyphenylpyruvate dioxygenase [Source:VGNC Symbol;Acc:VGNC:73511]
 ENSMMUG00000019945 fibroblast growth factor receptor 3 [Source:VGNC Symbol;Acc:VGNC:72653]
 ENSMMUG00000021486 secernin 2 [Source:NCBI gene;Acc:694571]
 ENSMMUG00000015924 BCAR3 adaptor protein, NSP family member [Source:VGNC Symbol;Acc:VGNC:70235]
 ENSMMUG00000005356 integrator complex subunit 8 [Source:VGNC Symbol;Acc:VGNC:73657]
 ENSMMUG00000005982 coiled-coil domain containing 84 [Source:NCBI gene;Acc:707400]
 ENSMMUG00000057160
 ENSMMUG00000001538 GRAM domain containing 1A [Source:VGNC Symbol;Acc:VGNC:73029]
 ENSMMUG00000015476 unc-13 homolog A [Source:NCBI gene;Acc:720000]
 ENSMMUG00000005548 N-ethylmaleimide sensitive factor, vesicle fusing ATPase [Source:VGNC Symbol;Acc:VGNC:75536]
 ENSMMUG00000005552 PAF1 homolog, Paf1/RNA polymerase II complex component [Source:VGNC Symbol;Acc:VGNC:81492]
 ENSMMUG00000004765 Sp2 transcription factor [Source:VGNC Symbol;Acc:VGNC:77845]
 ENSMMUG00000010043 epidermal growth factor [Source:VGNC Symbol;Acc:VGNC:72171]
 ENSMMUG00000056992 zinc finger AN1-type containing 6 [Source:NCBI gene;Acc:717543]
 ENSMMUG00000038702 ZFP36 ring finger protein [Source:NCBI gene;Acc:722000]
 ENSMMUG00000057682
 ENSMMUG00000061165
 ENSMMUG00000017619 lysophosphatidic acid receptor 5 [Source:VGNC Symbol;Acc:VGNC:74277]
 ENSMMUG00000004175 transient receptor potential cation channel subfamily M member 2 [Source:VGNC Symbol;Acc:VGNC:78655]
 ENSMMUG00000047452
 ENSMMUG00000020172 KIAA1755 [Source:VGNC Symbol;Acc:VGNC:73942]
 ENSMMUG00000008853 leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:HGNC:14189]
 ENSMMUG00000002515 protein phosphatase 2 phosphatase activator [Source:VGNC Symbol;Acc:VGNC:76583]
 ENSMMUG00000018029 amyloid beta precursor like protein 2 [Source:VGNC Symbol;Acc:VGNC:69984]
 ENSMMUG00000010949 SPG21 abhydrolase domain containing, maspardin [Source:VGNC Symbol;Acc:VGNC:77970]
 ENSMMUG00000038349 crystallin beta-gamma domain containing 3 [Source:NCBI gene;Acc:698282]
 ENSMMUG00000020156 CD1d molecule [Source:VGNC Symbol;Acc:VGNC:70757]
 ENSMMUG00000048207 syntaxin 4 [Source:NCBI gene;Acc:704880]
 ENSMMUG00000005729 GIPC PDZ domain containing family member 1 [Source:VGNC Symbol;Acc:VGNC:72932]
 ENSMMUG00000009577 atlastin GTPase 1 [Source:VGNC Symbol;Acc:VGNC:70049]
 ENSMMUG00000010626 CD1c molecule [Source:VGNC Symbol;Acc:VGNC:70756]
 ENSMMUG00000014411 coronin 6 [Source:NCBI gene;Acc:711818]
 15 ENSMMUG00000056629 nucleolar protein 12 [Source:NCBI gene;Acc:698318]
 ENSMMUG00000020186 solute carrier family 20 member 2 [Source:VGNC Symbol;Acc:VGNC:77416]
 ENSMMUG00000062394 C-C motif chemokine receptor 2 [Source:NCBI gene;Acc:574098]
 ENSMMUG00000011328 cytoplasmic polyadenylation element binding protein 1 [Source:NCBI gene;Acc:694357]
 ENSMMUG00000012472 phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:VGNC Symbol;Acc:VGNC:76001]
 ENSMMUG00000020603 pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:NCBI gene;Acc:707797]
 ENSMMUG00000029296 phosphatidylinositol glycan anchor biosynthesis class Q [Source:VGNC Symbol;Acc:VGNC:75798]
 ENSMMUG00000020629 SDS3 homolog, SIN3A corepressor complex component [Source:NCBI gene;Acc:696166]
 ENSMMUG00000049234 ninjurin 2 [Source:NCBI gene;Acc:706368]

		ENSMMUG00000008615	nebulin [Source:NCBI gene;Acc:100430324]
		ENSMMUG00000015115	terminal nucleotidyltransferase 5B [Source:VGNC Symbol;Acc:VGNC:79692]
		ENSMMUG00000063868	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000057001	homeobox B2 [Source:NCBI gene;Acc:106994010]
		ENSMMUG00000029883	olfactory receptor, family 2, subfamily J, member 3 [Source:NCBI gene;Acc:708943]
		ENSMMUG00000042472	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
NS_D2 S_D1	10	ENSMMUG00000037641	chondrosarcoma-associated gene 2/3 protein [Source:NCBI gene;Acc:106992305]
		ENSMMUG00000000187	UV radiation resistance associated [Source:VGNC Symbol;Acc:VGNC:78751]
		ENSMMUG00000030389	
		ENSMMUG00000022818	inhibitor of growth family member 1 [Source:VGNC Symbol;Acc:VGNC:73742]
		ENSMMUG00000004028	kelch repeat and BTB domain containing 13 [Source:VGNC Symbol;Acc:VGNC:73953]
		ENSMMUG00000019546	regucalcin [Source:VGNC Symbol;Acc:VGNC:76912]
		ENSMMUG00000048744	
		ENSMMUG00000002345	tropomodulin 3 [Source:VGNC Symbol;Acc:VGNC:78572]
		ENSMMUG00000062419	
		ENSMMUG00000007546	complement C1q like 4 [Source:VGNC Symbol;Acc:VGNC:70450]
S_D1 S_D3	7	ENSMMUG00000045187	CASC3 exon junction complex subunit [Source:NCBI gene;Acc:699712]
		ENSMMUG00000060572	
		ENSMMUG00000020956	parvin alpha [Source:VGNC Symbol;Acc:VGNC:75605]
		ENSMMUG00000021031	TMF1 regulated nuclear protein 1 [Source:VGNC Symbol;Acc:VGNC:79946]
		ENSMMUG00000049355	ALX homeobox 4 [Source:NCBI gene;Acc:715652]
		ENSMMUG00000001635	zinc finger protein 703 [Source:VGNC Symbol;Acc:VGNC:79552]
		ENSMMUG00000022481	cytochrome P450, family 1, subfamily A, polypeptide 1 [Source:NCBI gene;Acc:678694]
NS_D3 S_D1	10	ENSMMUG00000056548	coagulation factor III, tissue factor [Source:NCBI gene;Acc:714456]
		ENSMMUG00000036223	
		ENSMMUG00000033550	
		ENSMMUG00000065113	
		ENSMMUG00000002995	tripartite motif containing 24 [Source:VGNC Symbol;Acc:VGNC:78562]
		ENSMMUG00000018787	PAK1 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:75661]
		ENSMMUG00000003926	BCL2 like 12 [Source:NCBI gene;Acc:718981]
		ENSMMUG00000008090	ribosomal protein L27 [Source:NCBI gene;Acc:712352]
		ENSMMUG00000064204	kelch like family member 26 [Source:NCBI gene;Acc:719583]
		ENSMMUG00000007206	chromosome 3 C7orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70609]
NS_D1 S_D2	2	ENSMMUG00000020586	serpin family A member 12 [Source:VGNC Symbol;Acc:VGNC:77266]
		ENSMMUG00000057953	
NS_D1 NS_D2	56	ENSMMUG00000012856	nuclear FMR1 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75422]
		ENSMMUG00000065212	
		ENSMMUG00000010201	atrophin 1 [Source:VGNC Symbol;Acc:VGNC:70157]
		ENSMMUG00000004255	YLP motif containing 1 [Source:VGNC Symbol;Acc:VGNC:79092]
		ENSMMUG00000058108	BMP and activin membrane bound inhibitor [Source:NCBI gene;Acc:710152]
		ENSMMUG00000003629	phosphatidylinositol 4-kinase type 2 beta [Source:NCBI gene;Acc:693561]
		ENSMMUG00000003269	polyhomeotic homolog 2 [Source:VGNC Symbol;Acc:VGNC:75903]
		ENSMMUG00000047247	matrix Gla protein [Source:NCBI gene;Acc:574116]
		ENSMMUG00000042870	Macaca mulatta taste receptor, type 2, member 46 (TAS2R46), mRNA. [Source:RefSeq mRNA;Acc:NM_001080757]
		ENSMMUG00000003669	methionine sulfoxide reductase B3 [Source:VGNC Symbol;Acc:VGNC:74842]
		ENSMMUG00000000588	rhomboid 5 homolog 1 [Source:NCBI gene;Acc:693423]
		ENSMMUG00000003548	tectorin beta [Source:VGNC Symbol;Acc:VGNC:78306]
		ENSMMUG00000019443	syntaxin 11 [Source:VGNC Symbol;Acc:VGNC:78041]
		ENSMMUG00000056797	
		ENSMMUG00000057454	transmembrane protein 160 [Source:NCBI gene;Acc:716996]
		ENSMMUG00000054111	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000051719 late cornified envelope 1C [Source:HGNC Symbol;Acc:HGNC:29464]
 ENSMMUG00000044265 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000054803
 ENSMMUG00000061282 hyaluronan and proteoglycan link protein 1 [Source:NCBI gene;Acc:712501]
 ENSMMUG00000054090
 ENSMMUG00000009583 COP9 signalosome subunit 7A [Source:VGNC Symbol;Acc:VGNC:71185]
 ENSMMUG00000008251 cilia and flagella associated protein 126 [Source:VGNC Symbol;Acc:VGNC:71150]
 ENSMMUG00000023622 BCR activator of RhoGEF and GTPase [Source:NCBI gene;Acc:709258]
 ENSMMUG00000058715
 ENSMMUG00000053990
 ENSMMUG00000004224 poly(ADP-ribose) polymerase family member 12 [Source:VGNC Symbol;Acc:VGNC:81734]
 ENSMMUG00000038076 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000010203 protein tyrosine phosphatase non-receptor type 6 [Source:VGNC Symbol;Acc:VGNC:76607]
 ENSMMUG00000002562 mediator complex subunit 19 [Source:VGNC Symbol;Acc:VGNC:74615]
 ENSMMUG00000020583 FTO alpha-ketoglutarate dependent dioxygenase [Source:VGNC Symbol;Acc:VGNC:72772]
 ENSMMUG00000057063 solute carrier family 6 member 14 [Source:NCBI gene;Acc:709598]
 ENSMMUG00000052476 zinc finger and BTB domain containing 43 [Source:NCBI gene;Acc:701797]
 ENSMMUG00000061940
 ENSMMUG00000055834
 ENSMMUG00000011330 neuronal PAS domain protein 1 [Source:VGNC Symbol;Acc:VGNC:75377]
 ENSMMUG00000062518
 ENSMMUG00000014875 C2CD2 like [Source:VGNC Symbol;Acc:VGNC:70435]
 ENSMMUG00000032284 leucine rich repeat containing 47 [Source:VGNC Symbol;Acc:VGNC:74388]
 ENSMMUG00000065134 Fas ligand [Source:NCBI gene;Acc:574159]
 ENSMMUG00000029421 protein tyrosine phosphatase receptor type K [Source:VGNC Symbol;Acc:VGNC:83453]
 ENSMMUG00000025150 Y RNA [Source:RFAM;Acc:RF00019]
 ENSMMUG00000003314 aquaporin 3 (Gill blood group) [Source:NCBI gene;Acc:702721]
 ENSMMUG00000037890
 ENSMMUG00000056940 late cornified envelope protein 1C [Source:NCBI gene;Acc:713408]
 ENSMMUG00000042855 zinc finger SWIM-type containing 1 [Source:NCBI gene;Acc:717180]
 ENSMMUG00000057076 claudin 19 [Source:NCBI gene;Acc:697807]
 ENSMMUG00000040696 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000064860 phosphoglycerate mutase 2 [Source:NCBI gene;Acc:720615]
 ENSMMUG00000056939
 ENSMMUG00000013193 matrix metalloproteinase 16 [Source:VGNC Symbol;Acc:VGNC:74894]
 ENSMMUG00000013648 potassium two pore domain channel subfamily K member 16 [Source:VGNC Symbol;Acc:VGNC:73827]
 ENSMMUG00000010826 ral guanine nucleotide dissociation stimulator like 3 [Source:VGNC Symbol;Acc:VGNC:76869]
 ENSMMUG00000003902 thrombospondin 3 [Source:VGNC Symbol;Acc:VGNC:78345]
 ENSMMUG00000053498
 ENSMMUG00000009388 F-box and leucine rich repeat protein 5 [Source:VGNC Symbol;Acc:VGNC:81408]
 1 ENSMMUG00000019041 hydroxysteroid 17-beta dehydrogenase 11 [Source:VGNC Symbol;Acc:VGNC:73431]
 NS_D1 S_D3
 43 NS_D1 NS_D3 ENSMMUG00000015873 RAD51 paralog B [Source:VGNC Symbol;Acc:VGNC:76647]
 ENSMMUG00000016652 cell division cycle and apoptosis regulator 1 [Source:NCBI gene;Acc:693585]
 ENSMMUG00000059321
 ENSMMUG00000059681
 ENSMMUG00000051343
 ENSMMUG00000008091 RUN domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77101]
 ENSMMUG00000063658 leucine rich repeat neuronal 2 [Source:NCBI gene;Acc:100429709]
 ENSMMUG00000050456 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000000389 nucleolar protein 6 [Source:VGNC Symbol;Acc:VGNC:75218]
 ENSMMUG00000045256 cellular communication network factor 5 [Source:NCBI gene;Acc:717872]

ENSMMUG00000005150 CD163 molecule [Source:VGNC Symbol;Acc:VGNC:70752]
 ENSMMUG00000016111 chromosome 1 C1orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70432]
 ENSMMUG00000049913
 ENSMMUG00000038988 RNase MRP [Source:RFAM;Acc:RF00030]
 ENSMMUG00000056841
 ENSMMUG0000002421 DNA polymerase mu [Source:VGNC Symbol;Acc:VGNC:81742]
 ENSMMUG0000005532 male germ cell associated kinase [Source:VGNC Symbol;Acc:VGNC:74480]
 ENSMMUG00000056330
 ENSMMUG00000052228 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000048039 apurinic/apurimidinic endodeoxyribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:84305]
 ENSMMUG00000053220 olfactory receptor 111 [Source:NCBI gene;Acc:719077]
 ENSMMUG00000035160 U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]
 ENSMMUG00000058254
 ENSMMUG0000003439 nuclear factor I C [Source:VGNC Symbol;Acc:VGNC:75336]
 ENSMMUG00000016096 lamin A/C [Source:VGNC Symbol;Acc:VGNC:74427]
 ENSMMUG00000061836
 ENSMMUG00000020558 serine/threonine kinase 38 [Source:VGNC Symbol;Acc:VGNC:78155]
 ENSMMUG00000050436
 ENSMMUG00000008538 microfibril associated protein 4 [Source:VGNC Symbol;Acc:VGNC:74710]
 ENSMMUG00000053496
 ENSMMUG00000052424
 ENSMMUG00000056755
 ENSMMUG00000057363
 ENSMMUG0000001271 cleavage and polyadenylation specific factor 4 like [Source:NCBI gene;Acc:698279]
 ENSMMUG00000014573 dimethylarginine dimethylaminohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:71753]
 ENSMMUG0000004337 zinc finger protein 790 [Source:VGNC Symbol;Acc:VGNC:79930]
 ENSMMUG00000050511
 ENSMMUG00000060967
 ENSMMUG00000057038
 ENSMMUG00000059428 olfactory receptor 2V2 [Source:NCBI gene;Acc:707790]
 ENSMMUG00000015999 interferon induced protein 35 [Source:VGNC Symbol;Acc:VGNC:73564]
 ENSMMUG00000034608 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000057447
 17 ENSMMUG00000010314 HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:VGNC Symbol;Acc:VGNC:73238]
 ENSMMUG0000004222 thromboxane A synthase 1 [Source:VGNC Symbol;Acc:VGNC:78278]
 ENSMMUG00000049021 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000021498 L3MBTL histone methyl-lysine binding protein 3 [Source:VGNC Symbol;Acc:VGNC:74106]
 ENSMMUG00000045544 neuronal tyrosine-phosphorylated phosphoinositide-3-kinase adaptor 2 [Source:NCBI gene;Acc:711209]
 ENSMMUG0000001278 vitrin [Source:VGNC Symbol;Acc:VGNC:78773]
 ENSMMUG00000018767 cell division cycle associated 5 [Source:NCBI gene;Acc:721998]
 ENSMMUG00000060218 chemokine (C motif) ligand 1 [Source:NCBI gene;Acc:574367]
 ENSMMUG00000012178 calcium binding and coiled-coil domain 2 [Source:VGNC Symbol;Acc:VGNC:70675]
 ENSMMUG00000022914 RAB, member of RAS oncogene family like 2B [Source:NCBI gene;Acc:716615]
 ENSMMUG00000059332 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000054072
 ENSMMUG00000012538 ubiquitin conjugating enzyme E2 U [Source:VGNC Symbol;Acc:VGNC:79726]
 ENSMMUG00000016480 CaM kinase like vesicle associated [Source:VGNC Symbol;Acc:VGNC:70663]
 ENSMMUG00000013740 minichromosome maintenance 8 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:74516]
 ENSMMUG00000061816
 ENSMMUG00000045970 thiamine triphosphatase [Source:NCBI gene;Acc:714403]
 3 ENSMMUG00000053837

NS_D2 S_D2

S_D2 S_D3

	ENSMMUG00000023599	chromosome alignment maintaining phosphoprotein 1 [Source:VGNC Symbol;Acc:VGNC:71061]
	ENSMMUG00000021022	deoxynucleotidyltransferase terminal interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:71845]
NS_D3 S_D2	3 ENSMMUG00000023310	tetraspanin 12 [Source:VGNC Symbol;Acc:VGNC:79328]
	ENSMMUG00000008474	transforming growth factor beta regulator 1 [Source:VGNC Symbol;Acc:VGNC:78239]
	ENSMMUG00000010592	adducin 2 [Source:VGNC Symbol;Acc:VGNC:69529]
NS_D2 S_D3	3 ENSMMUG00000010008	IK cytokine [Source:VGNC Symbol;Acc:VGNC:73703]
	ENSMMUG00000012349	thiosulfate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:78664]
	ENSMMUG00000023146	ASH1 like histone lysine methyltransferase [Source:NCBI gene;Acc:717778]
NS_D2 NS_D3	61 ENSMMUG00000000276	NACC family member 2 [Source:VGNC Symbol;Acc:VGNC:75013]
	ENSMMUG00000020597	acyl-CoA synthetase short chain family member 1 [Source:VGNC Symbol;Acc:VGNC:69416]
	ENSMMUG00000017503	SDA1 domain containing 1 [Source:NCBI gene;Acc:700863]
	ENSMMUG00000019223	TNF receptor associated factor 7 [Source:VGNC Symbol;Acc:VGNC:79252]
	ENSMMUG00000004274	myotubularin related protein 8 [Source:VGNC Symbol;Acc:VGNC:74974]
	ENSMMUG00000060496	translocase of outer mitochondrial membrane 40 like [Source:NCBI gene;Acc:100426891]
	ENSMMUG00000004616	plasminogen activator, urokinase receptor [Source:VGNC Symbol;Acc:VGNC:76163]
	ENSMMUG00000015716	protein phosphatase with EF-hand domain 2 [Source:VGNC Symbol;Acc:VGNC:76233]
	ENSMMUG00000057983	
	ENSMMUG00000065094	
	ENSMMUG00000061391	ankyrin repeat domain 49 [Source:NCBI gene;Acc:697693]
	ENSMMUG00000011788	zinc finger protein 212 [Source:VGNC Symbol;Acc:VGNC:78418]
	ENSMMUG00000013877	otoancorin [Source:VGNC Symbol;Acc:VGNC:75624]
	ENSMMUG00000062294	
	ENSMMUG00000002211	doublecortin like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71670]
	ENSMMUG00000004520	NADH:ubiquinone oxidoreductase core subunit S2 [Source:NCBI gene;Acc:719935]
	ENSMMUG00000007197	BRCA2 DNA repair associated [Source:VGNC Symbol;Acc:VGNC:70279]
	ENSMMUG00000013284	G protein regulated inducer of neurite outgrowth 1 [Source:VGNC Symbol;Acc:VGNC:72998]
	ENSMMUG00000017380	neuregulin 3 [Source:NCBI gene;Acc:699268]
	ENSMMUG00000009622	glypican 3 [Source:VGNC Symbol;Acc:VGNC:73117]
	ENSMMUG00000060399	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMMUG00000061222	adipocyte plasma membrane associated protein [Source:NCBI gene;Acc:704948]
	ENSMMUG00000020177	membrane spanning 4-domains A4A [Source:NCBI gene;Acc:698027]
	ENSMMUG00000055918	
	ENSMMUG00000048462	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMMUG00000040888	complement C3b/C4b receptor 1 like [Source:HGNC Symbol;Acc:HGNC:2335]
	ENSMMUG00000053601	
	ENSMMUG00000014738	bromodomain containing 9 [Source:VGNC Symbol;Acc:VGNC:70386]
	ENSMMUG00000021019	E3 SUMO-protein ligase RanBP2 [Source:NCBI gene;Acc:694823]
	ENSMMUG00000064610	long intergenic non-protein coding RNA 1862 [Source:HGNC Symbol;Acc:HGNC:52681]
	ENSMMUG00000009816	exosome component 9 [Source:VGNC Symbol;Acc:VGNC:72477]
	ENSMMUG00000011634	coagulation factor XI [Source:VGNC Symbol;Acc:VGNC:72460]
	ENSMMUG00000011633	kallikrein B1 [Source:VGNC Symbol;Acc:VGNC:74195]
	ENSMMUG00000020743	centrin 2 [Source:NCBI gene;Acc:693376]
	ENSMMUG00000062702	
	ENSMMUG00000002963	Rho GTPase activating protein 32 [Source:VGNC Symbol;Acc:VGNC:69855]
	ENSMMUG00000054746	
	ENSMMUG00000013447	adaptor related protein complex 4 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69974]
	ENSMMUG00000006980	septin 7 [Source:VGNC Symbol;Acc:VGNC:81759]
	ENSMMUG00000062837	
	ENSMMUG00000001917	megakaryocyte-associated tyrosine kinase [Source:NCBI gene;Acc:100430078]
	ENSMMUG00000058856	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMMUG00000008536	mitogen-activated protein kinase 7 [Source:VGNC Symbol;Acc:VGNC:74648]

ENSMMUG00000022513 glutamate metabotropic receptor 3 [Source:VGNC Symbol;Acc:VGNC:73287]
 ENSMMUG00000049770 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000059432
 ENSMMUG0000005625 fibrosin [Source:NCBI gene;Acc:712741]
 ENSMMUG00000049391
 ENSMMUG00000054237 Y RNA [Source:RFAM;Acc:RF00019]
 ENSMMUG00000044080 mitochondrial ribosomal protein L54 [Source:NCBI gene;Acc:713878]
 ENSMMUG00000055241
 ENSMMUG00000056158
 ENSMMUG00000055022 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000051503 nuclear pore associated protein 1 [Source:NCBI gene;Acc:719891]
 ENSMMUG00000024170 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000038997 zygote arrest 1 like [Source:NCBI gene;Acc:100427970]
 ENSMMUG00000058881 bone morphogenetic protein 8b [Source:NCBI gene;Acc:100427030]
 ENSMMUG00000057813
 ENSMMUG00000008964 D-glutamate cyclase [Source:VGNC Symbol;Acc:VGNC:71685]
 ENSMMUG00000053611 stromal cell derived factor 2 [Source:NCBI gene;Acc:716189]
 ENSMMUG00000003611 low density lipoprotein receptor [Source:VGNC Symbol;Acc:VGNC:74248]
 11 ENSMMUG00000057481
 ENSMMUG00000010940 telomerase reverse transcriptase [Source:VGNC Symbol;Acc:VGNC:78313]
 ENSMMUG00000018879 exocyst complex component 3 like 2 [Source:NCBI gene;Acc:713992]
 ENSMMUG00000018823 transmembrane protein 191C [Source:NCBI gene;Acc:697070]
 ENSMMUG00000032809 mml-mir-642 [Source:miRBase;Acc:MI0007885]
 ENSMMUG00000056613
 ENSMMUG00000058311
 ENSMMUG00000063817 SRY-box transcription factor 9 [Source:NCBI gene;Acc:574208]
 ENSMMUG00000004903 ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:VGNC Symbol;Acc:VGNC:72223]
 ENSMMUG00000018235 chloride voltage-gated channel Kb [Source:NCBI gene;Acc:703476]
 ENSMMUG00000001911 steroid receptor associated and regulated protein [Source:VGNC Symbol;Acc:VGNC:78008]
 S_D1 151 ENSMMUG00000013107 tripartite motif containing 32 [Source:VGNC Symbol;Acc:VGNC:79032]
 ENSMMUG00000015221 huntingtin interacting protein 1 related [Source:VGNC Symbol;Acc:VGNC:73412]
 ENSMMUG00000012842 SET domain containing 1B, histone lysine methyltransferase [Source:NCBI gene;Acc:703717]
 ENSMMUG00000022463 C-type lectin CD209L2 [Source:NCBI gene;Acc:574373]
 ENSMMUG00000017761 zinc finger protein 518B [Source:VGNC Symbol;Acc:VGNC:79802]
 ENSMMUG00000007544 trophinin associated protein [Source:VGNC Symbol;Acc:VGNC:78650]
 ENSMMUG00000017102 coiled-coil domain containing 62 [Source:NCBI gene;Acc:707179]
 ENSMMUG00000015267 C-terminal Src kinase [Source:VGNC Symbol;Acc:VGNC:81380]
 ENSMMUG00000053333 acetylserotonin O-methyltransferase like [Source:NCBI gene;Acc:106995142]
 ENSMMUG00000030532 solute carrier family 25 member 16 [Source:NCBI gene;Acc:694145]
 ENSMMUG00000002063 endoplasmic reticulum aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:72066]
 ENSMMUG00000000480 KIAA1324 like [Source:VGNC Symbol;Acc:VGNC:73882]
 ENSMMUG00000004523 DNA polymerase delta 4, accessory subunit [Source:NCBI gene;Acc:712632]
 ENSMMUG00000008849 lymphotoxin beta [Source:VGNC Symbol;Acc:VGNC:74454]
 ENSMMUG00000009182 caspase 8 associated protein 2 [Source:VGNC Symbol;Acc:VGNC:70548]
 ENSMMUG00000015797 disco interacting protein 2 homolog A [Source:VGNC Symbol;Acc:VGNC:71641]
 ENSMMUG00000057850
 ENSMMUG00000056008
 ENSMMUG00000011206 solute carrier family 9 member B1 [Source:NCBI gene;Acc:710949]
 ENSMMUG00000006435 HNF1 homeobox A [Source:NCBI gene;Acc:107001057]
 ENSMMUG00000051240
 ENSMMUG00000052046

ENSMMUG0000002381 lysine methyltransferase 2B [Source:VGNC Symbol;Acc:VGNC:74053]
ENSMMUG00000056151
ENSMMUG00000047704 zinc finger protein 223 [Source:NCBI gene;Acc:711652]
ENSMMUG00000012223 branched chain amino acid transaminase 1 [Source:VGNC Symbol;Acc:VGNC:70236]
ENSMMUG00000003139 Rho guanine nucleotide exchange factor 17 [Source:VGNC Symbol;Acc:VGNC:69880]
ENSMMUG00000021938 nudE neurodevelopment protein 1 like 1 [Source:VGNC Symbol;Acc:VGNC:74982]
ENSMMUG00000008514 lin-54 DREAM MuvB core complex component [Source:VGNC Symbol;Acc:VGNC:74123]
ENSMMUG00000003023 chaperonin containing TCP1 subunit 8 [Source:VGNC Symbol;Acc:VGNC:70749]
ENSMMUG00000017188 proteasome 26S subunit, ATPase 4 [Source:VGNC Symbol;Acc:VGNC:76448]
ENSMMUG00000010062 shisa family member 5 [Source:VGNC Symbol;Acc:VGNC:84082]
ENSMMUG00000016922 serine/threonine kinase 32B [Source:VGNC Symbol;Acc:VGNC:78114]
ENSMMUG00000003585 ALG5 dolichyl-phosphate beta-glucosyltransferase [Source:VGNC Symbol;Acc:VGNC:69647]
ENSMMUG00000057643
ENSMMUG00000056646
ENSMMUG00000004847 xylulokinase [Source:VGNC Symbol;Acc:VGNC:78815]
ENSMMUG00000003534 ring finger protein 157 [Source:VGNC Symbol;Acc:VGNC:76860]
ENSMMUG00000050686
ENSMMUG00000018623 exportin 6 [Source:NCBI gene;Acc:704332]
ENSMMUG00000008183 retinoid X receptor alpha [Source:VGNC Symbol;Acc:VGNC:76951]
ENSMMUG00000005769 EF-hand calcium binding domain 6 [Source:VGNC Symbol;Acc:VGNC:72092]
ENSMMUG00000017864 oxysterol binding protein like 8 [Source:VGNC Symbol;Acc:VGNC:75630]
ENSMMUG00000028000 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000022920 TATA-box binding protein like 1 [Source:VGNC Symbol;Acc:VGNC:83491]
ENSMMUG00000015583 nucleosome assembly protein 1 like 1 [Source:NCBI gene;Acc:719047]
ENSMMUG00000062048
ENSMMUG00000000377 TNF receptor superfamily member 1A [Source:VGNC Symbol;Acc:VGNC:78589]
ENSMMUG00000058797
ENSMMUG00000016946 trafficking protein particle complex 4 [Source:VGNC Symbol;Acc:VGNC:79211]
ENSMMUG00000011866 phosphatidylinositol glycan anchor biosynthesis class O [Source:VGNC Symbol;Acc:VGNC:75851]
ENSMMUG00000006295 matrix metalloproteinase 19 [Source:VGNC Symbol;Acc:VGNC:74896]
ENSMMUG00000014309 zinc finger protein 280A [Source:VGNC Symbol;Acc:VGNC:79152]
ENSMMUG00000010967 tripartite motif family like 2 [Source:VGNC Symbol;Acc:VGNC:79603]
ENSMMUG00000016056 potassium voltage-gated channel subfamily A member 10 [Source:VGNC Symbol;Acc:VGNC:73963]
ENSMMUG00000061298
ENSMMUG00000050047 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050661
ENSMMUG00000061749 PAXIP1 associated glutamate rich protein 1 [Source:NCBI gene;Acc:706839]
ENSMMUG00000015925 G protein-coupled receptor kinase 2 [Source:VGNC Symbol;Acc:VGNC:73253]
ENSMMUG00000019704 WD repeat domain 62 [Source:NCBI gene;Acc:719053]
ENSMMUG00000014413 slingshot protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:78018]
ENSMMUG00000003074 plexin B1 [Source:VGNC Symbol;Acc:VGNC:76187]
ENSMMUG00000060605
ENSMMUG00000018798 stromal cell derived factor 2 like 1 [Source:NCBI gene;Acc:697928]
ENSMMUG00000053072
ENSMMUG00000006291 protocadherin 12 [Source:VGNC Symbol;Acc:VGNC:75776]
ENSMMUG00000005738 N-acetyltransferase 9 (putative) [Source:NCBI gene;Acc:699085]
ENSMMUG00000009957 spermatogenesis associated 25 [Source:VGNC Symbol;Acc:VGNC:77928]
ENSMMUG00000054017 potassium voltage-gated channel subfamily A member 2 [Source:NCBI gene;Acc:702126]
ENSMMUG00000009324 replication factor C subunit 1 [Source:NCBI gene;Acc:698987]
ENSMMUG00000061250 ABRA C-terminal like [Source:NCBI gene;Acc:708266]
ENSMMUG00000013651 kinesin family member 6 [Source:VGNC Symbol;Acc:VGNC:73873]

ENSMMUG00000016758 transmembrane protein 159 [Source:VGNC Symbol;Acc:VGNC:79836]
ENSMMUG00000061589 proteinase 3 [Source:HGNC Symbol;Acc:HGNC:9495]
ENSMMUG00000013098 aldo-keto reductase family 1 member B10 [Source:NCBI gene;Acc:713150]
ENSMMUG00000037426 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]
ENSMMUG00000023719 thymopoietin [Source:VGNC Symbol;Acc:VGNC:78574]
ENSMMUG00000005906 heat shock transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:73533]
ENSMMUG00000017949 ornithine decarboxylase antizyme 1 [Source:NCBI gene;Acc:721477]
ENSMMUG00000026584 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000019820 SH3 domain and tetratricopeptide repeats 2 [Source:VGNC Symbol;Acc:VGNC:77337]
ENSMMUG00000018274 FERM domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72747]
ENSMMUG00000064074
ENSMMUG00000054768
ENSMMUG00000055751
ENSMMUG00000036820 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]
ENSMMUG00000014981 homeobox containing 1 [Source:VGNC Symbol;Acc:VGNC:73443]
ENSMMUG00000004761 Cbl proto-oncogene [Source:VGNC Symbol;Acc:VGNC:70554]
ENSMMUG00000009372 tetratricopeptide repeat domain 27 [Source:VGNC Symbol;Acc:VGNC:79565]
ENSMMUG00000037887 RBMX like 1 [Source:NCBI gene;Acc:100424767]
ENSMMUG00000016191 ATP binding cassette subfamily A member 13 [Source:VGNC Symbol;Acc:VGNC:69402]
ENSMMUG00000003839 mitogen-activated protein kinase binding protein 1 [Source:VGNC Symbol;Acc:VGNC:74613]
ENSMMUG00000037449 CUGBP Elav-like family member 2 [Source:NCBI gene;Acc:714291]
ENSMMUG00000057791
ENSMMUG00000018166 MYB proto-oncogene, transcription factor [Source:VGNC Symbol;Acc:VGNC:75089]
ENSMMUG00000003142 family with sequence similarity 168 member A [Source:VGNC Symbol;Acc:VGNC:72398]
ENSMMUG00000031166 McKusick-Kaufman syndrome [Source:NCBI gene;Acc:718547]
ENSMMUG00000005423 caseinolytic mitochondrial matrix peptidase chaperone subunit B [Source:VGNC Symbol;Acc:VGNC:71375]
ENSMMUG00000011858 bone morphogenetic protein 5 [Source:VGNC Symbol;Acc:VGNC:70264]
ENSMMUG00000001879 annexin A10 [Source:VGNC Symbol;Acc:VGNC:69945]
ENSMMUG00000055345 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000022702 phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase [Source:VGNC Symbol;Acc:VGNC:72882]
ENSMMUG00000002943 glutamyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:76634]
ENSMMUG00000051450 phospholipase A2 receptor 1 [Source:NCBI gene;Acc:700191]
ENSMMUG00000055239
ENSMMUG00000019438 utrophin [Source:VGNC Symbol;Acc:VGNC:78749]
ENSMMUG00000016104 chondroitin sulfate proteoglycan 4 [Source:VGNC Symbol;Acc:VGNC:71525]
ENSMMUG00000055122
ENSMMUG00000003421 ankyrin repeat domain 40 [Source:VGNC Symbol;Acc:VGNC:69725]
ENSMMUG00000064324
ENSMMUG00000014537 bassoon presynaptic cytomatrix protein [Source:VGNC Symbol;Acc:VGNC:70284]
ENSMMUG00000005530 synaptotagmin 1 [Source:VGNC Symbol;Acc:VGNC:78074]
ENSMMUG00000031024 lactate dehydrogenase A [Source:NCBI gene;Acc:694309]
ENSMMUG00000057552 hematopoietic SH2 domain containing [Source:NCBI gene;Acc:719440]
ENSMMUG00000057554 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000015160 Rap guanine nucleotide exchange factor like 1 [Source:VGNC Symbol;Acc:VGNC:76501]
ENSMMUG00000004996 monooxygenase DBH like 1 [Source:VGNC Symbol;Acc:VGNC:74800]
ENSMMUG00000003075 coiled-coil domain containing 9 [Source:VGNC Symbol;Acc:VGNC:70851]
ENSMMUG00000063735
ENSMMUG00000060770
ENSMMUG00000020744 metastasis associated 1 family member 3 [Source:VGNC Symbol;Acc:VGNC:74814]
ENSMMUG00000019354 actin like 7B [Source:VGNC Symbol;Acc:VGNC:69421]

ENSMMUG00000041919 nuclear respiratory factor 1 [Source:VGNC Symbol;Acc:VGNC:81731]
ENSMMUG00000014408 GIT ArfGAP 1 [Source:VGNC Symbol;Acc:VGNC:73053]
ENSMMUG00000060261
ENSMMUG00000007195 tRNA splicing endonuclease subunit 2 [Source:VGNC Symbol;Acc:VGNC:82707]
ENSMMUG00000062595
ENSMMUG00000014615 lactate dehydrogenase C [Source:VGNC Symbol;Acc:VGNC:74247]
ENSMMUG00000015868 retinol dehydrogenase 11 [Source:NCBI gene;Acc:711195]
ENSMMUG00000010058 ATR interacting protein [Source:VGNC Symbol;Acc:VGNC:84235]
ENSMMUG00000000756 transmembrane protein adipocyte associated 1 [Source:VGNC Symbol;Acc:VGNC:79848]
ENSMMUG00000007279 phosphatidylinositol glycan anchor biosynthesis class C [Source:VGNC Symbol;Acc:VGNC:75986]
ENSMMUG00000038858
ENSMMUG00000051619 peptidyl arginine deiminase 3 [Source:NCBI gene;Acc:700560]
ENSMMUG00000059181
ENSMMUG00000057473
ENSMMUG00000035653 small Cajal body-specific RNA 18 [Source:HGNC Symbol;Acc:HGNC:32559]
ENSMMUG00000001485 transmembrane protein 150C [Source:NCBI gene;Acc:694136]
ENSMMUG00000009487 zinc finger protein 205 [Source:VGNC Symbol;Acc:VGNC:78869]
ENSMMUG00000061225
ENSMMUG00000061698
ENSMMUG00000010840 zinc finger protein 507 [Source:VGNC Symbol;Acc:VGNC:79410]
ENSMMUG00000023244 guanylate cyclase 1 soluble subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:73327]
ENSMMUG00000048283 mml-mir-3145 [Source:miRBase;Acc:MI0020897]
ENSMMUG00000002304 keratin 73 [Source:VGNC Symbol;Acc:VGNC:74148]
ENSMMUG00000049455 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000003363 Kruppel like factor 3 [Source:VGNC Symbol;Acc:VGNC:73840]
ENSMMUG00000015246 TBC1 domain family member 9 [Source:VGNC Symbol;Acc:VGNC:78193]
ENSMMUG00000001777 testis expressed metallothionein like protein [Source:VGNC Symbol;Acc:VGNC:79965]
ENSMMUG00000059196
194 ENSMMUG00000006076 intraflagellar transport 74 [Source:VGNC Symbol;Acc:VGNC:73430]
ENSMMUG00000063790
ENSMMUG00000051892 fms related receptor tyrosine kinase 3 ligand [Source:NCBI gene;Acc:719239]
ENSMMUG00000006609 MHC class I polypeptide-related sequence B [Source:NCBI gene;Acc:715141]
ENSMMUG00000018788 transmembrane protein 14B [Source:NCBI gene;Acc:698237]
ENSMMUG00000017026 fibrosin like 1 [Source:NCBI gene;Acc:696295]
ENSMMUG00000059895
ENSMMUG00000005263 chromosome X CXorf38 homolog [Source:VGNC Symbol;Acc:VGNC:71600]
ENSMMUG00000027375 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000016414 ectonucleotide pyrophosphatase/phosphodiesterase 7 [Source:VGNC Symbol;Acc:VGNC:72090]
ENSMMUG00000064612 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064638 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000052882 RAS like family 11 member B [Source:NCBI gene;Acc:701397]
ENSMMUG00000042886 ETS variant transcription factor 3 [Source:NCBI gene;Acc:719741]
ENSMMUG00000002974 acid phosphatase 5, tartrate resistant [Source:VGNC Symbol;Acc:VGNC:69384]
ENSMMUG00000023225 E2F transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:72027]
ENSMMUG00000051937 uncharacterized LOC707807 [Source:NCBI gene;Acc:707807]
ENSMMUG00000008834 klotho beta [Source:VGNC Symbol;Acc:VGNC:73835]
ENSMMUG00000023025 synaptophysin [Source:VGNC Symbol;Acc:VGNC:78072]
ENSMMUG00000013892 coiled-coil domain containing 77 [Source:VGNC Symbol;Acc:VGNC:70889]
ENSMMUG00000019937 maltase-glucoamylase 2 (putative) [Source:VGNC Symbol;Acc:VGNC:81720]
ENSMMUG00000056777 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056227 PRAME family member 17 [Source:NCBI gene;Acc:715953]

NS_D1

ENSMMUG0000002952 laminin subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:74229]
ENSMMUG00000019965 methyl-CpG binding domain protein 3 like 1 [Source:VGNC Symbol;Acc:VGNC:74513]
ENSMMUG0000006819 helicase for meiosis 1 [Source:NCBI gene;Acc:704516]
ENSMMUG0000002181 SF11 centrin binding protein [Source:VGNC Symbol;Acc:VGNC:77328]
ENSMMUG0000000194 solute carrier family 27 member 1 [Source:VGNC Symbol;Acc:VGNC:77438]
ENSMMUG00000016686 BUB1 mitotic checkpoint serine/threonine kinase B [Source:VGNC Symbol;Acc:VGNC:70293]
ENSMMUG00000021928 CAP-Gly domain containing linker protein 1 [Source:VGNC Symbol;Acc:VGNC:71166]
ENSMMUG0000000039 mitochondrial ribosomal protein L24 [Source:VGNC Symbol;Acc:VGNC:74739]
ENSMMUG0000000994 epidermal growth factor receptor pathway substrate 15 like 1 [Source:VGNC Symbol;Acc:VGNC:72100]
ENSMMUG00000010858 prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]
ENSMMUG00000054199
ENSMMUG00000001483 RNA pseudouridine synthase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:77091]
ENSMMUG00000008838 mitochondrial coiled-coil domain 1 [Source:VGNC Symbol;Acc:VGNC:74548]
ENSMMUG00000063462
ENSMMUG00000050597
ENSMMUG00000003913 DNA polymerase epsilon 2, accessory subunit [Source:VGNC Symbol;Acc:VGNC:76204]
ENSMMUG00000053423
ENSMMUG00000059984 pellino E3 ubiquitin protein ligase family member 2 [Source:NCBI gene;Acc:699169]
ENSMMUG00000017458 DDB1 and CUL4 associated factor 12 [Source:VGNC Symbol;Acc:VGNC:71678]
ENSMMUG00000015928 ankyrin repeat domain 13D [Source:VGNC Symbol;Acc:VGNC:69722]
ENSMMUG00000039346 apolipoprotein B mRNA editing enzyme catalytic subunit 3G [Source:NCBI gene;Acc:574398]
ENSMMUG00000009682 R3H domain containing 4 [Source:VGNC Symbol;Acc:VGNC:76554]
ENSMMUG00000001200
ENSMMUG00000050263 TBC1 domain family member 26-like [Source:NCBI gene;Acc:100426631]
ENSMMUG00000011588 myosin IXB [Source:HGNC Symbol;Acc:HGNC:7609]
ENSMMUG00000040007 peroxisomal biogenesis factor 1 [Source:VGNC Symbol;Acc:VGNC:81736]
ENSMMUG00000011516 ADP ribosylation factor like GTPase 4C [Source:VGNC Symbol;Acc:VGNC:70018]
ENSMMUG00000056855 potassium inwardly rectifying channel subfamily J member 15 [Source:NCBI gene;Acc:693427]
ENSMMUG00000049123 gastrokine 1 [Source:NCBI gene;Acc:706565]
ENSMMUG00000012007 PH domain and leucine rich repeat protein phosphatase 2 [Source:VGNC Symbol;Acc:VGNC:81494]
ENSMMUG00000007204 cytochrome P450 family 2 subfamily W member 1 [Source:VGNC Symbol;Acc:VGNC:81300]
ENSMMUG00000019682 mitochondrial ribosomal protein S9 [Source:VGNC Symbol;Acc:VGNC:74762]
ENSMMUG00000051691
ENSMMUG00000010142 glutamate ionotropic receptor NMDA type subunit 2A [Source:VGNC Symbol;Acc:VGNC:73282]
ENSMMUG00000024428 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000057818
ENSMMUG00000065271
ENSMMUG00000012940 tRNA phosphotransferase 1 [Source:VGNC Symbol;Acc:VGNC:79242]
ENSMMUG00000012597 ubiquitin associated protein 2 [Source:VGNC Symbol;Acc:VGNC:78949]
ENSMMUG00000021642 fibromodulin [Source:VGNC Symbol;Acc:VGNC:72686]
ENSMMUG00000022504 alpha-2-glycoprotein 1, zinc-binding [Source:VGNC Symbol;Acc:VGNC:70201]
ENSMMUG00000016407 microtubule associated serine/threonine kinase like [Source:NCBI gene;Acc:708134]
ENSMMUG00000016513 FA complementation group M [Source:VGNC Symbol;Acc:VGNC:72554]
ENSMMUG00000021005 taste receptor type 2 member 50 [Source:NCBI gene;Acc:693513]
ENSMMUG00000008336 acyl-CoA dehydrogenase family member 10 [Source:NCBI gene;Acc:711080]
ENSMMUG00000053916
ENSMMUG00000016457 DM1 protein kinase [Source:NCBI gene;Acc:715328]
ENSMMUG00000010420 makorin ring finger protein 1 [Source:VGNC Symbol;Acc:VGNC:81476]
ENSMMUG00000054637 tubulin polymerization promoting protein family member 3 [Source:NCBI gene;Acc:100429881]
ENSMMUG00000052422 ATPase H+ transporting V1 subunit G2 [Source:NCBI gene;Acc:715331]
ENSMMUG00000016552 inverted formin, FH2 and WH2 domain containing [Source:VGNC Symbol;Acc:VGNC:84357]

ENSMMUG00000058352
ENSMMUG00000057486
ENSMMUG00000018200 RNA transcription, translation and transport factor [Source:VGNC Symbol;Acc:VGNC:77087]
ENSMMUG00000060865 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000022590 metallophosphoesterase domain containing 1 [Source:NCBI gene;Acc:715021]
ENSMMUG0000006090 C-C motif chemokine receptor 10 [Source:VGNC Symbol;Acc:VGNC:82119]
ENSMMUG00000008515 sorting nexin 7 [Source:NCBI gene;Acc:716015]
ENSMMUG00000016469 proprotein convertase subtilisin/kexin type 1 inhibitor [Source:VGNC Symbol;Acc:VGNC:75639]
ENSMMUG00000010922 hyaluronan synthase 3 [Source:VGNC Symbol;Acc:VGNC:73348]
ENSMMUG0000000108 NCK associated protein 1 like [Source:VGNC Symbol;Acc:VGNC:75063]
ENSMMUG00000018566 Janus kinase 1 [Source:VGNC Symbol;Acc:VGNC:73810]
ENSMMUG00000023018 RP2 activator of ARL3 GTPase [Source:VGNC Symbol;Acc:VGNC:76720]
ENSMMUG00000025039 Small nucleolar RNA SNORA73 family [Source:RFAM;Acc:RF00045]
ENSMMUG00000060917
ENSMMUG00000053696 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062248 follicular dendritic cell secreted protein [Source:NCBI gene;Acc:707784]
ENSMMUG00000050104 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000050335
ENSMMUG00000056844
ENSMMUG00000002930 G protein-coupled receptor 158 [Source:NCBI gene;Acc:707065]
ENSMMUG00000060780
ENSMMUG00000052324 MARVEL domain containing 3 [Source:NCBI gene;Acc:710448]
ENSMMUG00000012350 mercaptopyruvate sulfurtransferase [Source:VGNC Symbol;Acc:VGNC:74922]
ENSMMUG00000035551 small nucleolar RNA, C/D box 11B [Source:HGNC Symbol;Acc:HGNC:33571]
ENSMMUG00000022961 solute carrier family 11 member 2 [Source:VGNC Symbol;Acc:VGNC:77383]
ENSMMUG00000061431 outer dense fiber of sperm tails 3 like 1 [Source:NCBI gene;Acc:706545]
ENSMMUG00000055601
ENSMMUG00000008698 cyclin dependent kinase 6 [Source:VGNC Symbol;Acc:VGNC:70983]
ENSMMUG00000058499
ENSMMUG00000022801 zinc finger and BTB domain containing 37 [Source:VGNC Symbol;Acc:VGNC:79702]
ENSMMUG00000013560 calcium voltage-gated channel auxiliary subunit gamma 3 [Source:VGNC Symbol;Acc:VGNC:70513]
ENSMMUG00000005521 glycogenin 1 [Source:VGNC Symbol;Acc:VGNC:73332]
ENSMMUG00000056778
ENSMMUG00000003612 SPC24 component of NDC80 kinetochore complex [Source:VGNC Symbol;Acc:VGNC:78002]
ENSMMUG00000002836 coiled-coil domain containing 71 [Source:VGNC Symbol;Acc:VGNC:70862]
ENSMMUG00000011441 transmembrane protein 106C [Source:VGNC Symbol;Acc:VGNC:79741]
ENSMMUG00000056580 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000039268 lymphocyte antigen 6G6e-like [Source:NCBI gene;Acc:100427419]
ENSMMUG00000041198 muscle RAS oncogene homolog [Source:NCBI gene;Acc:716352]
ENSMMUG00000057857
ENSMMUG00000037284 small nucleolar RNA, H/ACA box 59A [Source:HGNC Symbol;Acc:HGNC:32653]
ENSMMUG00000022346 surfeit 2 [Source:VGNC Symbol;Acc:VGNC:78059]
ENSMMUG00000027220 microRNA 598 [Source:HGNC Symbol;Acc:HGNC:32854]
ENSMMUG00000004471 family with sequence similarity 114 member A1 [Source:VGNC Symbol;Acc:VGNC:72342]
ENSMMUG00000027544 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000010581 Rap guanine nucleotide exchange factor 2 [Source:VGNC Symbol;Acc:VGNC:76493]
ENSMMUG00000001949 coiled-coil domain containing 191 [Source:VGNC Symbol;Acc:VGNC:70901]
ENSMMUG00000012942 DnaJ heat shock protein family (Hsp40) member C4 [Source:NCBI gene;Acc:717847]
ENSMMUG00000009974 inositol-tetrakisphosphate 1-kinase [Source:VGNC Symbol;Acc:VGNC:73802]
ENSMMUG00000054846 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000058096 CDKN2A interacting protein N-terminal like [Source:NCBI gene;Acc:710774]

ENSMMUG00000042839
ENSMMUG00000008624 forkhead box P3 [Source:VGNC Symbol;Acc:VGNC:72926]
ENSMMUG00000039412 cholinergic receptor muscarinic 4 [Source:NCBI gene;Acc:574195]
ENSMMUG00000015607 solute carrier family 39 member 13 [Source:VGNC Symbol;Acc:VGNC:77538]
ENSMMUG00000016621 transmembrane BAX inhibitor motif containing 4 [Source:NCBI gene;Acc:717825]
ENSMMUG00000057204 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG0000004798 S100 calcium binding protein G [Source:VGNC Symbol;Acc:VGNC:77016]
ENSMMUG00000011161 syntaxin binding protein 5 like [Source:VGNC Symbol;Acc:VGNC:78256]
ENSMMUG00000019500 methenyltetrahydrofolate synthetase domain containing [Source:VGNC Symbol;Acc:VGNC:75023]
ENSMMUG00000059371
ENSMMUG00000060270
ENSMMUG00000064295
ENSMMUG00000049374
ENSMMUG00000008106 solute carrier family 25 member 17 [Source:NCBI gene;Acc:705547]
ENSMMUG00000051847
ENSMMUG00000049952
ENSMMUG00000020588 protein kinase N2 [Source:VGNC Symbol;Acc:VGNC:76015]
ENSMMUG00000051414 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000009648 paired box 9 [Source:VGNC Symbol;Acc:VGNC:75768]
ENSMMUG00000010213 GLI pathogenesis related 2 [Source:VGNC Symbol;Acc:VGNC:81414]
ENSMMUG00000064723 gasdermin A [Source:NCBI gene;Acc:698841]
ENSMMUG00000064602
ENSMMUG00000049666
ENSMMUG0000006787 BCL2 like 15 [Source:VGNC Symbol;Acc:VGNC:70162]
ENSMMUG00000056339
ENSMMUG00000052832
ENSMMUG00000060404
ENSMMUG00000050832
ENSMMUG00000058241 leucine rich repeat and Ig domain containing 3 [Source:NCBI gene;Acc:721484]
ENSMMUG00000039560 cofilin 2 [Source:NCBI gene;Acc:693875]
ENSMMUG00000057675 non-compact myelin associated protein [Source:NCBI gene;Acc:712192]
ENSMMUG00000040268 phosphatidylinositol transfer protein alpha [Source:NCBI gene;Acc:721228]
ENSMMUG00000011413 acid sensing ion channel subunit 2 [Source:VGNC Symbol;Acc:VGNC:70241]
ENSMMUG00000059548
ENSMMUG0000004014 interferon regulatory factor 7 [Source:VGNC Symbol;Acc:VGNC:73765]
ENSMMUG0000004932 msh homeobox 2 [Source:VGNC Symbol;Acc:VGNC:84448]
ENSMMUG00000021082 potassium sodium-activated channel subfamily T member 2 [Source:VGNC Symbol;Acc:VGNC:73857]
ENSMMUG00000009494 carboxypeptidase A5 [Source:VGNC Symbol;Acc:VGNC:71410]
ENSMMUG00000019668 armadillo repeat containing 6 [Source:VGNC Symbol;Acc:VGNC:69899]
ENSMMUG00000038018 polycomb group ring finger 5 [Source:NCBI gene;Acc:697020]
ENSMMUG00000008744 lysosomal protein transmembrane 5 [Source:VGNC Symbol;Acc:VGNC:74162]
ENSMMUG00000050920 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051989 interleukin 5 [Source:NCBI gene;Acc:710622]
ENSMMUG00000008288 sorting nexin 17 [Source:VGNC Symbol;Acc:VGNC:77709]
ENSMMUG00000060562
ENSMMUG00000042419
ENSMMUG00000063986
ENSMMUG00000003268 alpha 1,3-galactosyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:69550]
ENSMMUG00000065277 hepatic and glial cell adhesion molecule [Source:NCBI gene;Acc:716321]
ENSMMUG00000060891 histone H3.Y [Source:NCBI gene;Acc:718280]
ENSMMUG00000052134

ENSMMUG00000015019 VPS37C subunit of ESCRT-I [Source:VGNC Symbol;Acc:VGNC:79578]
 ENSMMUG00000018255 nuclear factor of activated T cells 5 [Source:VGNC Symbol;Acc:VGNC:75325]
 ENSMMUG00000052328 FAM20C golgi associated secretory pathway kinase [Source:NCBI gene;Acc:695088]
 ENSMMUG00000052179
 ENSMMUG00000062178 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000023361 GDNF family receptor alpha 2 [Source:VGNC Symbol;Acc:VGNC:72918]
 ENSMMUG00000054881
 ENSMMUG00000053364
 ENSMMUG00000037977 protein phosphatase 1 regulatory inhibitor subunit 14B [Source:NCBI gene;Acc:722103]
 ENSMMUG00000004417 secretion associated Ras related GTPase 1B [Source:VGNC Symbol;Acc:VGNC:76970]
 ENSMMUG00000017607 NEDD4 binding protein 3 [Source:VGNC Symbol;Acc:VGNC:75053]
 ENSMMUG00000039301 StAR related lipid transfer domain containing 10 [Source:NCBI gene;Acc:718503]
 ENSMMUG0000005455 ring finger protein 213 [Source:VGNC Symbol;Acc:VGNC:76734]
 ENSMMUG00000019083 solute carrier family 9 member B2 [Source:VGNC Symbol;Acc:VGNC:77773]
 ENSMMUG00000032858 mml-mir-583 [Source:miRBase;Acc:MI0007850]
 ENSMMUG00000053710
 ENSMMUG00000008510 THAP domain containing 9 [Source:VGNC Symbol;Acc:VGNC:79379]
 ENSMMUG00000005622 dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]
 27 ENSMMUG00000064173 prokineticin 1 [Source:NCBI gene;Acc:701766]
 ENSMMUG00000005964 CMP-N-acetylneuraminic acid hydroxylase [Source:NCBI gene;Acc:574186]
 ENSMMUG00000056477
 ENSMMUG00000023681 nucleolar protein 9 [Source:VGNC Symbol;Acc:VGNC:75263]
 ENSMMUG00000001456 MCF.2 cell line derived transforming sequence-like 2 [Source:VGNC Symbol;Acc:VGNC:74624]
 ENSMMUG00000000382 sperm associated antigen 16 [Source:VGNC Symbol;Acc:VGNC:77977]
 ENSMMUG00000058574
 ENSMMUG00000055556
 ENSMMUG00000020549 protein phosphatase 6 catalytic subunit [Source:NCBI gene;Acc:703658]
 ENSMMUG00000008218 ADAMTS like 4 [Source:VGNC Symbol;Acc:VGNC:69480]
 ENSMMUG00000015487 pericentriolar material 1 [Source:VGNC Symbol;Acc:VGNC:75781]
 ENSMMUG00000037413 U5 spliceosomal RNA [Source:RFAM;Acc:RF00020]
 ENSMMUG00000006841 myoferlin [Source:VGNC Symbol;Acc:VGNC:75061]
 ENSMMUG00000050516
 ENSMMUG00000010141 family with sequence similarity 13 member A [Source:VGNC Symbol;Acc:VGNC:72299]
 ENSMMUG00000011278 cysteine rich with EGF like domains 2 [Source:NCBI gene;Acc:720586]
 ENSMMUG00000009187 calcium voltage-gated channel subunit alpha1 B [Source:VGNC Symbol;Acc:VGNC:70499]
 ENSMMUG00000009414 Sad1 and UNC84 domain containing 5 [Source:VGNC Symbol;Acc:VGNC:78133]
 ENSMMUG00000053737 BarH like homeobox 2 [Source:NCBI gene;Acc:696831]
 ENSMMUG00000004668 receptor tyrosine kinase like orphan receptor 1 [Source:VGNC Symbol;Acc:VGNC:76715]
 ENSMMUG00000005667 fumarate hydratase [Source:VGNC Symbol;Acc:VGNC:72659]
 ENSMMUG00000060987
 ENSMMUG00000053655
 ENSMMUG00000001083 glycine N-acyltransferase-like protein 1 [Source:NCBI gene;Acc:701437]
 ENSMMUG00000025625 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000020605 heparanase 2 (inactive) [Source:NCBI gene;Acc:708795]
 ENSMMUG00000061318
 NS_D2 87 ENSMMUG00000009976 uridine-cytidine kinase 1 [Source:VGNC Symbol;Acc:VGNC:78967]
 ENSMMUG00000007804 RAN binding protein 10 [Source:VGNC Symbol;Acc:VGNC:76563]
 ENSMMUG00000009495 carboxypeptidase A1 [Source:VGNC Symbol;Acc:VGNC:71455]
 ENSMMUG00000064928
 ENSMMUG00000014534 phosphatidylinositol transfer protein beta [Source:VGNC Symbol;Acc:VGNC:76006]
 ENSMMUG00000014589 inositol hexakisphosphate kinase 1 [Source:VGNC Symbol;Acc:VGNC:73621]

ENSMMUG00000011965 coiled-coil domain containing 175 [Source:VGNC Symbol;Acc:VGNC:84317]
ENSMMUG00000053249
ENSMMUG00000023678 pleckstrin homology and RhoGEF domain containing G5 [Source:VGNC Symbol;Acc:VGNC:76130]
ENSMMUG00000001116 SUZ12 polycomb repressive complex 2 subunit [Source:VGNC Symbol;Acc:VGNC:78144]
ENSMMUG00000023823 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000017767 integrin subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73784]
ENSMMUG00000016826 MAPK associated protein 1 [Source:VGNC Symbol;Acc:VGNC:74531]
ENSMMUG00000038221 proteasome 26S subunit, non-ATPase 8 [Source:NCBI gene;Acc:721897]
ENSMMUG00000008979 protein O-fucosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76030]
ENSMMUG00000031794
ENSMMUG00000000827 ubiquitin specific peptidase 38 [Source:VGNC Symbol;Acc:VGNC:79224]
ENSMMUG00000021269 Josephin domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73919]
ENSMMUG00000044545 apolipoprotein A1 [Source:NCBI gene;Acc:696969]
ENSMMUG00000064520
ENSMMUG00000021904 cell division cycle 45 [Source:VGNC Symbol;Acc:VGNC:70800]
ENSMMUG00000011637 coiled-coil domain containing 148 [Source:VGNC Symbol;Acc:VGNC:70856]
ENSMMUG00000011095 BTB domain and CNC homolog 1 [Source:VGNC Symbol;Acc:VGNC:70217]
ENSMMUG00000051349
ENSMMUG00000017055 divergent protein kinase domain 2A [Source:VGNC Symbol;Acc:VGNC:71781]
ENSMMUG00000003265 leptin receptor [Source:VGNC Symbol;Acc:VGNC:81429]
ENSMMUG00000060102 cytokine receptor like factor 1 [Source:NCBI gene;Acc:720247]
ENSMMUG00000065221
ENSMMUG00000058815 core-binding factor subunit beta [Source:NCBI gene;Acc:695767]
ENSMMUG00000033200 Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]
ENSMMUG00000000826 storkhead box 1 [Source:VGNC Symbol;Acc:VGNC:78197]
ENSMMUG00000004280 DDB1 and CUL4 associated factor 1 [Source:VGNC Symbol;Acc:VGNC:71819]
ENSMMUG00000013452 canopy FGF signaling regulator 4 [Source:VGNC Symbol;Acc:VGNC:71364]
ENSMMUG00000049843 late cornified envelope protein 2D [Source:NCBI gene;Acc:100424118]
ENSMMUG00000053976 bile acid-CoA:amino acid N-acyltransferase [Source:NCBI gene;Acc:100429419]
ENSMMUG00000007010 coiled-coil domain-containing protein 162-like [Source:NCBI gene;Acc:700544]
ENSMMUG00000019513 U2AF homology motif kinase 1 [Source:VGNC Symbol;Acc:VGNC:79198]
ENSMMUG00000058835
ENSMMUG00000055571
ENSMMUG00000063744
ENSMMUG00000051976
ENSMMUG00000010444 ring finger protein 150 [Source:VGNC Symbol;Acc:VGNC:76805]
ENSMMUG00000003830 alpha fetoprotein [Source:VGNC Symbol;Acc:VGNC:69741]
ENSMMUG00000065227
ENSMMUG00000008506 metaxin-1 [Source:NCBI gene;Acc:717595]
ENSMMUG00000020633 suppressor of cancer cell invasion [Source:NCBI gene;Acc:712803]
ENSMMUG00000021079 NME/NM23 family member 7 [Source:VGNC Symbol;Acc:VGNC:75221]
ENSMMUG00000017533 interferon induced protein with tetratricopeptide repeats 1 [Source:NCBI gene;Acc:695683]
ENSMMUG00000054811
ENSMMUG00000049600
ENSMMUG00000064799
ENSMMUG00000065109 ankyrin repeat and SOCS box containing 12 [Source:NCBI gene;Acc:707931]
ENSMMUG00000058750 nuclear receptor interacting protein 1 [Source:NCBI gene;Acc:693866]
ENSMMUG00000020080 GDNF family receptor alpha 1 [Source:VGNC Symbol;Acc:VGNC:72917]
ENSMMUG00000057719
ENSMMUG00000062485 ESF1 nucleolar pre-rRNA processing protein homolog [Source:NCBI gene;Acc:694159]
ENSMMUG00000007548 DnaJ heat shock protein family (Hsp40) member C22 [Source:NCBI gene;Acc:710205]

ENSMMUG00000023570 interleukin 19 [Source:NCBI gene;Acc:694806]
 ENSMMUG00000018011 sphingosine kinase 1 [Source:VGNC Symbol;Acc:VGNC:77858]
 ENSMMUG00000064358
 ENSMMUG00000003555 calcium voltage-gated channel subunit alpha1 A [Source:VGNC Symbol;Acc:VGNC:70498]
 ENSMMUG00000064729 small proline rich protein 3 [Source:NCBI gene;Acc:713857]
 ENSMMUG00000016876 integrin subunit alpha L [Source:NCBI gene;Acc:711945]
 ENSMMUG0000006389 zinc finger and SCAN domain containing 20 [Source:VGNC Symbol;Acc:VGNC:78895]
 ENSMMUG00000060667
 ENSMMUG00000036060 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000001324 tetraspanin 32 [Source:VGNC Symbol;Acc:VGNC:78920]
 ENSMMUG00000063140 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000003353 macrophage stimulating 1 receptor [Source:VGNC Symbol;Acc:VGNC:74941]
 ENSMMUG00000005639 transmembrane protein 41B [Source:VGNC Symbol;Acc:VGNC:79754]
 ENSMMUG00000004516 apolipoprotein A2 [Source:NCBI gene;Acc:719946]
 ENSMMUG00000018600 myosin light chain 4 [Source:VGNC Symbol;Acc:VGNC:75105]
 ENSMMUG00000016593 adaptor related protein complex 1 subunit mu 2 [Source:NCBI gene;Acc:720531]
 ENSMMUG00000038707 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000042039
 ENSMMUG00000009667 zinc finger protein 385D [Source:VGNC Symbol;Acc:VGNC:79587]
 ENSMMUG00000058085 coiled-coil domain containing 195 [Source:HGNC Symbol;Acc:HGNC:53441]
 ENSMMUG00000062949
 ENSMMUG00000013540 RAN guanine nucleotide release factor [Source:VGNC Symbol;Acc:VGNC:76503]
 ENSMMUG00000052734
 ENSMMUG00000046883 autophagy related 4D cysteine peptidase [Source:NCBI gene;Acc:713111]
 ENSMMUG00000058029 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000034978 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000061139
 ENSMMUG00000020040 phosphatase and actin regulator 1 [Source:VGNC Symbol;Acc:VGNC:75841]
 ENSMMUG00000009346 ArfGAP with GTPase domain, ankyrin repeat and PH domain 1 [Source:VGNC Symbol;Acc:VGNC:84206]
 ENSMMUG00000017053 death associated protein kinase 1 [Source:VGNC Symbol;Acc:VGNC:71732]
 29 ENSMMUG00000008770 UDP-glucose pyrophosphorylase 2 [Source:VGNC Symbol;Acc:VGNC:78712]
 ENSMMUG00000000603 Rho GDP dissociation inhibitor gamma [Source:VGNC Symbol;Acc:VGNC:70011]
 ENSMMUG00000047729 inositol 1,4,5-trisphosphate receptor type 3 [Source:NCBI gene;Acc:718040]
 ENSMMUG00000011962 protein tyrosine phosphatase receptor type S [Source:VGNC Symbol;Acc:VGNC:76622]
 ENSMMUG00000015244 uncoupling protein 1 [Source:VGNC Symbol;Acc:VGNC:78708]
 ENSMMUG00000053199
 ENSMMUG00000013422 CEA cell adhesion molecule 4 [Source:NCBI gene;Acc:705453]
 ENSMMUG00000018275 docking protein 6 [Source:VGNC Symbol;Acc:VGNC:71915]
 ENSMMUG00000015663 adaptor related protein complex 3 subunit delta 1 [Source:VGNC Symbol;Acc:VGNC:69969]
 ENSMMUG00000017150 mitochondrial antiviral signaling protein [Source:VGNC Symbol;Acc:VGNC:74609]
 ENSMMUG00000061514 mucin-3A-like [Source:NCBI gene;Acc:100428559]
 ENSMMUG00000017945 septin 12 [Source:VGNC Symbol;Acc:VGNC:82235]
 ENSMMUG00000063886 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000060973
 ENSMMUG00000017946 rogd1 atypical leucine zipper [Source:VGNC Symbol;Acc:VGNC:76862]
 ENSMMUG00000057825
 ENSMMUG00000023297 solute carrier family 25 member 45 [Source:VGNC Symbol;Acc:VGNC:77576]
 ENSMMUG00000010470 zinc finger with KRAB and SCAN domains 2 [Source:VGNC Symbol;Acc:VGNC:79529]
 ENSMMUG00000004877 heterogeneous nuclear ribonucleoprotein L [Source:VGNC Symbol;Acc:VGNC:81187]
 ENSMMUG00000057274 hemoglobin subunit mu [Source:NCBI gene;Acc:694058]
 ENSMMUG00000052867

NS_D3

84 ENSMUG00000018344 myosin XVA [Source:VGNC Symbol;Acc:VGNC:75109]
ENSMUG00000004108 corticotropin releasing hormone receptor 1 [Source:VGNC Symbol;Acc:VGNC:81184]
ENSMUG00000021415 BAI1 associated protein 3 [Source:VGNC Symbol;Acc:VGNC:70223]
ENSMUG00000014313 zinc finger protein 500 [Source:VGNC Symbol;Acc:VGNC:79406]
ENSMUG00000000842 RNA pseudouridine synthase domain containing 1 [Source:NCBI gene;Acc:722393]
ENSMUG00000013206 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta [Source:VGNC Symbol;Acc:VGNC:78819]
ENSMUG00000000553 bromodomain containing 1 [Source:VGNC Symbol;Acc:VGNC:70280]
ENSMUG00000013129 peptidylprolyl isomerase H [Source:NCBI gene;Acc:697669]
ENSMUG00000003780 tight junction protein 2 [Source:NCBI gene;Acc:699586]
ENSMUG00000001967 late cornified envelope 5A [Source:VGNC Symbol;Acc:VGNC:74061]
ENSMUG00000020010 cadherin 17 [Source:VGNC Symbol;Acc:VGNC:70810]
ENSMUG00000019593 synaptophysin like 1 [Source:VGNC Symbol;Acc:VGNC:78073]
ENSMUG00000061787
ENSMUG00000063215 T cell receptor alpha variable 29/delta variable 5 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:12127]
ENSMUG00000057560
ENSMUG00000059788
ENSMUG00000014592 zinc finger SWIM-type containing 9 [Source:VGNC Symbol;Acc:VGNC:79949]
ENSMUG00000011777 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:82108]
ENSMUG00000054259
ENSMUG00000054161 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMUG00000016553 solute carrier family 12 member 5 [Source:VGNC Symbol;Acc:VGNC:77471]
ENSMUG00000056010
ENSMUG00000063699
ENSMUG00000009973 proline rich coiled-coil 2B [Source:VGNC Symbol;Acc:VGNC:76327]
ENSMUG00000031106 ubiquitin recognition factor in ER associated degradation 1 [Source:NCBI gene;Acc:711716]
ENSMUG00000057520
ENSMUG00000009066 60S ribosomal protein L26 [Source:NCBI gene;Acc:696134]
ENSMUG00000052112
ENSMUG00000007198 NEDD4 binding protein 2 like 1 [Source:VGNC Symbol;Acc:VGNC:75017]
ENSMUG00000060366
ENSMUG00000000917 aldo-keto reductase family 1 member B [Source:NCBI gene;Acc:705957]
ENSMUG00000057681
ENSMUG00000051230
ENSMUG00000064895
ENSMUG00000024668 Y RNA [Source:RFAM;Acc:RF00019]
ENSMUG00000021891 kinesin light chain 3 [Source:VGNC Symbol;Acc:VGNC:73870]
ENSMUG00000057790
ENSMUG00000060230 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMUG00000059084
ENSMUG00000052227
ENSMUG00000013270 RNA binding protein, mRNA processing factor 2 [Source:VGNC Symbol;Acc:VGNC:76511]
ENSMUG00000014828 heparan sulfate proteoglycan 2 [Source:VGNC Symbol;Acc:VGNC:73534]
ENSMUG00000056393
ENSMUG00000061126 golgi associated olfactory signaling regulator [Source:NCBI gene;Acc:719194]
ENSMUG00000000730 spectrin alpha, erythrocytic 1 [Source:VGNC Symbol;Acc:VGNC:77868]
ENSMUG00000059754
ENSMUG00000014702 TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]
ENSMUG00000059969
ENSMUG00000060626 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMUG00000051453
ENSMUG0000006237 carboxypeptidase Z [Source:VGNC Symbol;Acc:VGNC:71478]

ENSMMUG00000052572
ENSMMUG00000061974
ENSMMUG00000010632 family with sequence similarity 81 member B [Source:VGNC Symbol;Acc:VGNC:72365]
ENSMMUG00000056794 cystatin E/M [Source:NCBI gene;Acc:714999]
ENSMMUG00000014227 cholinergic receptor muscarinic 5 [Source:VGNC Symbol;Acc:VGNC:71044]
ENSMMUG00000031451 golgin A3 [Source:VGNC Symbol;Acc:VGNC:73106]
ENSMMUG00000000802 regulatory factor X3 [Source:VGNC Symbol;Acc:VGNC:76908]
ENSMMUG00000009668 transmembrane and coiled-coil domains 5A [Source:VGNC Symbol;Acc:VGNC:79725]
ENSMMUG00000005355 TIMP metalloproteinase inhibitor 2 [Source:NCBI gene;Acc:574357]
ENSMMUG00000064009 galactose-3-O-sulfotransferase 1 [Source:NCBI gene;Acc:715998]
ENSMMUG00000057671
ENSMMUG00000022467 membrane bound transcription factor peptidase, site 2 [Source:NCBI gene;Acc:696540]
ENSMMUG00000016999 KIAA0232 [Source:VGNC Symbol;Acc:VGNC:73922]
ENSMMUG00000060308
ENSMMUG00000061632 fibrillin 3 [Source:NCBI gene;Acc:709446]
ENSMMUG00000013697 PDX1 C-terminal inhibiting factor 1 [Source:VGNC Symbol;Acc:VGNC:75621]
ENSMMUG00000060959
ENSMMUG00000029652 mitogen-activated protein kinase 6 [Source:NCBI gene;Acc:694998]
ENSMMUG00000027541 Small nucleolar RNA SNORA70 [Source:RFAM;Acc:RF00156]
ENSMMUG00000017127 carbohydrate sulfotransferase 11 [Source:VGNC Symbol;Acc:VGNC:82123]
ENSMMUG00000013136 Y-box binding protein 1 [Source:NCBI gene;Acc:700140]
ENSMMUG00000019441 solute carrier family 12 member 7 [Source:VGNC Symbol;Acc:VGNC:77390]
ENSMMUG00000013493 ornithine carbamoyltransferase [Source:VGNC Symbol;Acc:VGNC:75723]
ENSMMUG00000010610 WW domain containing oxidoreductase [Source:VGNC Symbol;Acc:VGNC:78805]
ENSMMUG00000001187 mitogen-activated protein kinase 15 [Source:VGNC Symbol;Acc:VGNC:74570]
ENSMMUG00000054579 zinc finger RNA binding protein 2 [Source:NCBI gene;Acc:100430166]
ENSMMUG00000016769 proteasome 26S subunit, ATPase 5 [Source:VGNC Symbol;Acc:VGNC:81513]
ENSMMUG00000033121 Small nucleolar RNA U3 [Source:RFAM;Acc:RF00012]
ENSMMUG00000001028 SNF related kinase [Source:VGNC Symbol;Acc:VGNC:84074]
ENSMMUG00000059117 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000022437 peptidyl arginine deiminase 6 [Source:VGNC Symbol;Acc:VGNC:75657]
ENSMMUG00000064250
ENSMMUG00000059725
ENSMMUG00000064821
ENSMMUG00000001902 TruB pseudouridine synthase family member 1 [Source:VGNC Symbol;Acc:VGNC:79005]
ENSMMUG00000049537 phosphoribosyl pyrophosphate synthetase associated protein 1 [Source:NCBI gene;Acc:706625]
ENSMMUG00000003233 SET domain containing 1A, histone lysine methyltransferase [Source:NCBI gene;Acc:712416]
ENSMMUG00000012040 enolase 3 [Source:VGNC Symbol;Acc:VGNC:72220]
ENSMMUG00000016761 coiled-coil domain containing 47 [Source:NCBI gene;Acc:717944]
ENSMMUG00000002679 lactate dehydrogenase B [Source:NCBI gene;Acc:706110]
ENSMMUG00000011026 dynein axonemal heavy chain 5 [Source:VGNC Symbol;Acc:VGNC:71942]

D. Down-regulated common and unique gene names in Venn Diagram

Names	total	elements	description
NS_D1 NS_D2 NS_D3 S_D1 S_D2 S_D3	180	ENSMMUG00000017230	V-set and transmembrane domain containing 2 like [Source:NCBI gene;Acc:707394]
		ENSMMUG00000009155	SIN3-HDAC complex associated factor [Source:NCBI gene;Acc:694162]
		ENSMMUG00000046655	pleckstrin homology like domain family B member 1 [Source:NCBI gene;Acc:706336]
		ENSMMUG00000021878	timeless circadian regulator [Source:VGNC Symbol;Acc:VGNC:78356]
		ENSMMUG00000015117	X-prolyl aminopeptidase 1 [Source:VGNC Symbol;Acc:VGNC:78810]
		ENSMMUG00000016983	acrosin binding protein [Source:VGNC Symbol;Acc:VGNC:69445]
		ENSMMUG00000002200	phospholipid phosphatase 3 [Source:NCBI gene;Acc:715993]
		ENSMMUG00000005246	zinc finger protein 740 [Source:VGNC Symbol;Acc:VGNC:79665]
		ENSMMUG00000002794	general transcription factor IIB [Source:VGNC Symbol;Acc:VGNC:73306]
		ENSMMUG00000016927	solute carrier family 2 member 10 [Source:VGNC Symbol;Acc:VGNC:77465]
		ENSMMUG00000002549	trehalase [Source:NCBI gene;Acc:706449]
		ENSMMUG00000012192	erythrocyte membrane protein band 4.1 like 4A [Source:VGNC Symbol;Acc:VGNC:72039]
		ENSMMUG00000010648	DNA methyltransferase 3 like [Source:NCBI gene;Acc:722184]
		ENSMMUG000000065099	
		ENSMMUG00000020533	chromosome 11 C12orf56 homolog [Source:VGNC Symbol;Acc:VGNC:70409]
		ENSMMUG00000000981	T-box transcription factor 6 [Source:VGNC Symbol;Acc:VGNC:78276]
		ENSMMUG00000004675	smoothelin [Source:VGNC Symbol;Acc:VGNC:77661]
		ENSMMUG00000006898	integrin subunit beta 8 [Source:VGNC Symbol;Acc:VGNC:73791]
		ENSMMUG000000062527	
		ENSMMUG00000045584	leucine zipper protein 1 [Source:NCBI gene;Acc:718626]
		ENSMMUG000000050177	
		ENSMMUG000000059019	
		ENSMMUG00000009038	titin [Source:NCBI gene;Acc:703527]
		ENSMMUG00000039020	zinc finger protein 141 [Source:NCBI gene;Acc:714265]
		ENSMMUG000000055244	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
		ENSMMUG00000017113	ubiquitin specific peptidase 32 [Source:NCBI gene;Acc:716857]
		ENSMMUG00000012781	muscular LMNA interacting protein [Source:VGNC Symbol;Acc:VGNC:83434]
		ENSMMUG00000017210	sarcosine dehydrogenase [Source:VGNC Symbol;Acc:VGNC:76971]
		ENSMMUG00000000238	HECT domain E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:73246]
		ENSMMUG00000049351	MAGE family member E1 [Source:NCBI gene;Acc:705379]
		ENSMMUG00000009773	lysine demethylase 1A [Source:VGNC Symbol;Acc:VGNC:73928]
		ENSMMUG000000056045	
		ENSMMUG000000053721	
		ENSMMUG00000000009	protein tyrosine phosphatase receptor type C [Source:VGNC Symbol;Acc:VGNC:76612]
		ENSMMUG00000000974	mutS homolog 2 [Source:VGNC Symbol;Acc:VGNC:74931]
		ENSMMUG00000008718	zinc finger protein 280D [Source:NCBI gene;Acc:699509]
		ENSMMUG000000054210	C-C motif chemokine 4 [Source:NCBI gene;Acc:100426632]
		ENSMMUG00000012462	proteasome activator subunit 1 [Source:VGNC Symbol;Acc:VGNC:76455]
		ENSMMUG00000017524	phosphoinositide kinase, FYVE-type zinc finger containing [Source:VGNC Symbol;Acc:VGNC:75854]
		ENSMMUG00000016880	solute carrier family 39 member 8 [Source:VGNC Symbol;Acc:VGNC:77541]
		ENSMMUG00000018358	zinc finger protein 217 [Source:VGNC Symbol;Acc:VGNC:78874]
		ENSMMUG00000011386	GTPase, IMAP family member 4 [Source:VGNC Symbol;Acc:VGNC:72982]
		ENSMMUG00000015141	ankyrin repeat domain 16 [Source:NCBI gene;Acc:720787]
		ENSMMUG00000017234	leucine rich repeat containing 59 [Source:VGNC Symbol;Acc:VGNC:81436]
		ENSMMUG00000014484	zinc finger protein 641 [Source:NCBI gene;Acc:708246]

ENSMMUG0000005856 glycine amidinotransferase [Source:VGNC Symbol;Acc:VGNC:72892]
ENSMMUG0000005851 B-box and SPRY domain containing [Source:VGNC Symbol;Acc:VGNC:70342]
ENSMMUG00000012058 GEN1 Holliday junction 5' flap endonuclease [Source:VGNC Symbol;Acc:VGNC:72790]
ENSMMUG00000019850 arachidonate lipoxygenase 3 [Source:VGNC Symbol;Acc:VGNC:69607]
ENSMMUG00000014735 carnitine palmitoyltransferase 1C [Source:NCBI gene;Acc:719429]
ENSMMUG00000059241
ENSMMUG00000004157 nuclear protein, coactivator of histone transcription [Source:VGNC Symbol;Acc:VGNC:75379]
ENSMMUG00000022153 solute carrier family 25 member 36 [Source:VGNC Symbol;Acc:VGNC:84079]
ENSMMUG00000063177 StAR related lipid transfer domain containing 4 [Source:NCBI gene;Acc:706654]
ENSMMUG00000059575
ENSMMUG00000059707 MIS18 kinetochore protein A [Source:NCBI gene;Acc:709275]
ENSMMUG00000006252 argonaute RISC catalytic component 3 [Source:NCBI gene;Acc:712543]
ENSMMUG00000038070 T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:HGNC:12107]
ENSMMUG00000021145 family with sequence similarity 120B [Source:VGNC Symbol;Acc:VGNC:72311]
ENSMMUG00000021091 COP9 signalosome subunit 3 [Source:VGNC Symbol;Acc:VGNC:71316]
ENSMMUG00000055207
ENSMMUG00000015522 GRAM domain containing 1B [Source:VGNC Symbol;Acc:VGNC:73028]
ENSMMUG00000007411 integrin alpha FG-GAP repeat containing 2 [Source:VGNC Symbol;Acc:VGNC:73690]
ENSMMUG00000050269 T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:HGNC:12189]
ENSMMUG00000056103 growth arrest and DNA damage inducible alpha [Source:NCBI gene;Acc:701054]
ENSMMUG00000007816 SMAD family member 2 [Source:VGNC Symbol;Acc:VGNC:77810]
ENSMMUG00000010453 folate receptor beta [Source:VGNC Symbol;Acc:VGNC:72690]
ENSMMUG00000014687 sterile alpha motif domain containing 14 [Source:VGNC Symbol;Acc:VGNC:77112]
ENSMMUG00000007003 polyribonucleotide nucleotidyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:76095]
ENSMMUG00000012056 structural maintenance of chromosomes 6 [Source:VGNC Symbol;Acc:VGNC:77746]
ENSMMUG00000062793
ENSMMUG00000023676 espin [Source:NCBI gene;Acc:722532]
ENSMMUG00000015000 SPT16 homolog, facilitates chromatin remodeling subunit [Source:VGNC Symbol;Acc:VGNC:78054]
ENSMMUG00000013302 family with sequence similarity 184 member A [Source:VGNC Symbol;Acc:VGNC:72308]
ENSMMUG00000015309 F-box protein 24 [Source:VGNC Symbol;Acc:VGNC:72495]
ENSMMUG00000002113 NHL repeat containing 3 [Source:VGNC Symbol;Acc:VGNC:75291]
ENSMMUG00000054064
ENSMMUG00000015970 coiled-coil domain containing 150 [Source:VGNC Symbol;Acc:VGNC:84222]
ENSMMUG00000053384
ENSMMUG00000003261 BAF chromatin remodeling complex subunit BCL11B [Source:VGNC Symbol;Acc:VGNC:70056]
ENSMMUG00000011974 calcium/calmodulin dependent protein kinase IV [Source:VGNC Symbol;Acc:VGNC:70526]
ENSMMUG00000007330 nuclear mitotic apparatus protein 1 [Source:VGNC Symbol;Acc:VGNC:75556]
ENSMMUG00000003277 copine 4 [Source:VGNC Symbol;Acc:VGNC:71466]
ENSMMUG00000039944 Ras protein specific guanine nucleotide releasing factor 2 [Source:VGNC Symbol;Acc:VGNC:84486]
ENSMMUG00000037675 testis expressed 52 [Source:NCBI gene;Acc:107000723]
ENSMMUG00000057606 GPRIN family member 3 [Source:NCBI gene;Acc:703567]
ENSMMUG00000016262 tetratricopeptide repeat domain 38 [Source:VGNC Symbol;Acc:VGNC:79574]
ENSMMUG00000019639 paired box 5 [Source:VGNC Symbol;Acc:VGNC:75764]
ENSMMUG00000002090 ATPase H+ transporting V1 subunit B1 [Source:VGNC Symbol;Acc:VGNC:70184]
ENSMMUG00000002103 delta/notch like EGF repeat containing [Source:VGNC Symbol;Acc:VGNC:71895]
ENSMMUG00000015661 protein tyrosine phosphatase receptor type U [Source:VGNC Symbol;Acc:VGNC:76624]
ENSMMUG00000052535
ENSMMUG00000015279 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Source:VGNC Symbol;Acc:VGNC:77647]
ENSMMUG00000015143 F-box DNA helicase 1 [Source:NCBI gene;Acc:720797]
ENSMMUG00000052526 RAB39A, member RAS oncogene family [Source:NCBI gene;Acc:707451]

ENSMMUG00000018974 LysM domain containing 3 [Source:VGNC Symbol;Acc:VGNC:74373]
ENSMMUG00000022199 polyhomeotic homolog 3 [Source:VGNC Symbol;Acc:VGNC:75804]
ENSMMUG00000029164 glycerophosphodiester phosphodiesterase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72800]
ENSMMUG00000004821 membrane spanning 4-domains A14 [Source:NCBI gene;Acc:697083]
ENSMMUG00000064529
ENSMMUG00000013047 S-phase kinase associated protein 1 [Source:NCBI gene;Acc:100423634]
ENSMMUG00000020370 SRY-box transcription factor 5 [Source:VGNC Symbol;Acc:VGNC:77843]
ENSMMUG00000001357 tetraspanin 11 [Source:VGNC Symbol;Acc:VGNC:79882]
ENSMMUG00000051115
ENSMMUG00000009948 histone deacetylase 1 [Source:NCBI gene;Acc:708441]
ENSMMUG00000055809
ENSMMUG00000023679 tripartite motif containing 26 [Source:VGNC Symbol;Acc:VGNC:78854]
ENSMMUG00000017246 lipoygenase homology domains 1 [Source:VGNC Symbol;Acc:VGNC:74368]
ENSMMUG00000007821 ATP binding cassette subfamily B member 5 [Source:VGNC Symbol;Acc:VGNC:80321]
ENSMMUG00000055610 homeobox C4 [Source:NCBI gene;Acc:100430434]
ENSMMUG00000008643 general transcription factor IIIC subunit 3 [Source:VGNC Symbol;Acc:VGNC:73317]
ENSMMUG00000005727 protein kinase N1 [Source:VGNC Symbol;Acc:VGNC:76014]
ENSMMUG00000013552 scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]
ENSMMUG00000000717 CD3e molecule associated protein [Source:NCBI gene;Acc:714440]
ENSMMUG00000054711
ENSMMUG00000012481 importin 4 [Source:VGNC Symbol;Acc:VGNC:73630]
ENSMMUG00000018342 required for meiotic nuclear division 1 homolog [Source:VGNC Symbol;Acc:VGNC:76797]
ENSMMUG00000020289 CD83 molecule [Source:VGNC Symbol;Acc:VGNC:70783]
ENSMMUG00000049196 dispatched RND transporter family member 3 [Source:NCBI gene;Acc:722727]
ENSMMUG00000056116
ENSMMUG00000061973
ENSMMUG00000017615 zinc finger CCHC-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79420]
ENSMMUG00000051482
ENSMMUG00000038560 eukaryotic translation elongation factor 1 epsilon 1 [Source:NCBI gene;Acc:695426]
ENSMMUG00000022202 basic leucine zipper and W2 domains 1 [Source:VGNC Symbol;Acc:VGNC:84213]
ENSMMUG00000057494 T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:HGNC:12243]
ENSMMUG00000023265 A-kinase anchoring protein 12 [Source:VGNC Symbol;Acc:VGNC:69766]
ENSMMUG00000005137 ATPase secretory pathway Ca²⁺ transporting 1 [Source:VGNC Symbol;Acc:VGNC:70054]
ENSMMUG00000040694 LCK proto-oncogene, Src family tyrosine kinase [Source:NCBI gene;Acc:717704]
ENSMMUG00000060744
ENSMMUG00000008974 Fc receptor like 5 [Source:NCBI gene;Acc:718771]
ENSMMUG00000007326 ring finger protein 121 [Source:VGNC Symbol;Acc:VGNC:76788]
ENSMMUG00000055229
ENSMMUG00000063345
ENSMMUG00000001742 transforming growth factor beta receptor 3 [Source:VGNC Symbol;Acc:VGNC:78339]
ENSMMUG00000017186 pleckstrin homology domain interacting protein [Source:VGNC Symbol;Acc:VGNC:75803]
ENSMMUG00000002890 tripartite motif containing 15 [Source:VGNC Symbol;Acc:VGNC:83958]
ENSMMUG00000016314 family with sequence similarity 166 member B [Source:VGNC Symbol;Acc:VGNC:72421]
ENSMMUG00000020211 cyclin Y like 1 [Source:VGNC Symbol;Acc:VGNC:84224]
ENSMMUG00000051381 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064804
ENSMMUG00000000982 protein phosphatase 4 catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76384]
ENSMMUG00000038661
ENSMMUG00000044759
ENSMMUG00000022185 odd-skipped related transcription factor 2 [Source:VGNC Symbol;Acc:VGNC:84097]
ENSMMUG00000032252 UbiA prenyltransferase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:79881]

ENSMMUG00000030099 phospholipid phosphatase 1 [Source:VGNC Symbol;Acc:VGNC:76226]
 ENSMMUG00000020706 ETS proto-oncogene 1, transcription factor [Source:VGNC Symbol;Acc:VGNC:72439]
 ENSMMUG00000052574
 ENSMMUG00000006731 CECR2 histone acetyl-lysine reader [Source:VGNC Symbol;Acc:VGNC:84530]
 ENSMMUG00000041450 zinc finger protein 432 [Source:NCBI gene;Acc:100424341]
 ENSMMUG00000051271
 ENSMMUG00000010820 chaperonin containing TCP1 subunit 2 [Source:VGNC Symbol;Acc:VGNC:70745]
 ENSMMUG00000051032 serine protease 2 [Source:NCBI gene;Acc:698352]
 ENSMMUG00000020061 protein phosphatase 1 regulatory subunit 9B [Source:VGNC Symbol;Acc:VGNC:76372]
 ENSMMUG00000016791 doublecortin like kinase 1 [Source:VGNC Symbol;Acc:VGNC:71745]
 ENSMMUG00000060346
 ENSMMUG00000037551 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000019325 mechanistic target of rapamycin kinase [Source:VGNC Symbol;Acc:VGNC:75062]
 ENSMMUG00000056387 transcription factor 15 [Source:NCBI gene;Acc:716916]
 ENSMMUG00000040154 T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:HGNC:12154]
 ENSMMUG00000003260
 ENSMMUG00000002742 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:77942]
 ENSMMUG00000055344 TLC domain containing 3A [Source:NCBI gene;Acc:699707]
 ENSMMUG0000005301 ATP binding cassette subfamily B member 9 [Source:VGNC Symbol;Acc:VGNC:81341]
 ENSMMUG00000055845 ankyrin repeat domain 53 [Source:NCBI gene;Acc:703757]
 ENSMMUG00000052682
 ENSMMUG00000007424 nuclear receptor interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:75448]
 ENSMMUG00000022183 spermatogenesis associated 1 [Source:NCBI gene;Acc:710462]
 ENSMMUG00000022975 sprouty related EVH1 domain containing 3 [Source:VGNC Symbol;Acc:VGNC:78030]
 ENSMMUG00000055477
 ENSMMUG00000001728 mitogen-activated protein kinase 9 [Source:VGNC Symbol;Acc:VGNC:74652]
 ENSMMUG00000053577
 ENSMMUG00000003736 nuclear factor kappa B subunit 1 [Source:VGNC Symbol;Acc:VGNC:75339]
 ENSMMUG00000019892 myomesin 1 [Source:VGNC Symbol;Acc:VGNC:75123]
 ENSMMUG00000009965 chromosome 15 C9orf50 homolog [Source:VGNC Symbol;Acc:VGNC:70365]
 ENSMMUG00000001479 laminin subunit gamma 2 [Source:VGNC Symbol;Acc:VGNC:74233]
 ENSMMUG00000018474 signal regulatory protein alpha [Source:NCBI gene;Acc:717811]
 ENSMMUG00000005204 VPS16 core subunit of CORVET and HOPS complexes [Source:VGNC Symbol;Acc:VGNC:78966]
 ENSMMUG00000010682 fibrillin 2 [Source:VGNC Symbol;Acc:VGNC:72624]
 NS_D1 NS_D2 S_D1 S_D2 S_D3 15 ENSMMUG00000007398 potassium calcium-activated channel subfamily N member 1 [Source:VGNC Symbol;Acc:VGNC:74002]
 ENSMMUG00000057501
 ENSMMUG00000004233 leucine rich repeats and immunoglobulin like domains 3 [Source:NCBI gene;Acc:716344]
 ENSMMUG00000003029 protein arginine methyltransferase 1 [Source:NCBI gene;Acc:719419]
 ENSMMUG00000016313 RUN and SH3 domain containing 2 [Source:VGNC Symbol;Acc:VGNC:82230]
 ENSMMUG00000030381 arachidonate 15-lipoxygenase [Source:VGNC Symbol;Acc:VGNC:69796]
 ENSMMUG00000058151 chromosome 4 C6orf62 homolog [Source:NCBI gene;Acc:708218]
 ENSMMUG00000000104 ribosomal RNA processing 1B [Source:VGNC Symbol;Acc:VGNC:77089]
 ENSMMUG00000012129 tripartite motif containing 10 [Source:VGNC Symbol;Acc:VGNC:78550]
 ENSMMUG00000017583 single stranded DNA binding protein 2 [Source:NCBI gene;Acc:711752]
 ENSMMUG00000061892
 ENSMMUG00000012110 smoothed, frizzled class receptor [Source:VGNC Symbol;Acc:VGNC:77658]
 ENSMMUG00000062974
 ENSMMUG00000018565 ribonucleoprotein, PTB binding 2 [Source:VGNC Symbol;Acc:VGNC:76536]
 ENSMMUG00000042798
 NS_D1 NS_D2 NS_D3 S_D1 S_D2 58 ENSMMUG00000060713 epithelial membrane protein 2 [Source:NCBI gene;Acc:710315]
 ENSMMUG00000054315

ENSMMUG00000009519 WASH complex subunit 4 [Source:VGNC Symbol;Acc:VGNC:79783]
ENSMMUG00000021282 late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:VGNC Symbol;Acc:VGNC:74129]
ENSMMUG00000007628 cell adhesion associated, oncogene regulated [Source:VGNC Symbol;Acc:VGNC:70961]
ENSMMUG00000052830
ENSMMUG00000057859
ENSMMUG00000001481 nicotinamide nucleotide adenylyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75193]
ENSMMUG00000019831 neurobeachin [Source:NCBI gene;Acc:714386]
ENSMMUG00000056306
ENSMMUG00000013501 CD68 molecule [Source:VGNC Symbol;Acc:VGNC:82121]
ENSMMUG00000049563
ENSMMUG00000012480 REC8 meiotic recombination protein [Source:VGNC Symbol;Acc:VGNC:76746]
ENSMMUG00000021280 leucine rich transmembrane and O-methyltransferase domain containing [Source:NCBI gene;Acc:718286]
ENSMMUG00000007325 Xrcc1 N-terminal domain containing 1 [Source:NCBI gene;Acc:115945140]
ENSMMUG00000009493 family with sequence similarity 120A [Source:NCBI gene;Acc:717459]
ENSMMUG00000007313 histone acetyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73349]
ENSMMUG00000006187 angiopoietin like 7 [Source:VGNC Symbol;Acc:VGNC:69683]
ENSMMUG00000016526 solute carrier family 25 member 41 [Source:VGNC Symbol;Acc:VGNC:77581]
ENSMMUG00000055585
ENSMMUG00000020175 mediator complex subunit 25 [Source:VGNC Symbol;Acc:VGNC:74607]
ENSMMUG00000007256 splicing factor 3b subunit 4 [Source:VGNC Symbol;Acc:VGNC:77182]
ENSMMUG00000018746 FAST kinase domains 3 [Source:VGNC Symbol;Acc:VGNC:72588]
ENSMMUG00000054116 T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:HGNC:12151]
ENSMMUG00000002657 olfactomedin 4 [Source:VGNC Symbol;Acc:VGNC:75418]
ENSMMUG00000049948
ENSMMUG00000000983 aldolase, fructose-bisphosphate A [Source:NCBI gene;Acc:708406]
ENSMMUG00000002183 oxysterol binding protein like 6 [Source:VGNC Symbol;Acc:VGNC:75627]
ENSMMUG00000006548 KIAA1549 [Source:VGNC Symbol;Acc:VGNC:73885]
ENSMMUG00000008228 unc-93 homolog A [Source:VGNC Symbol;Acc:VGNC:78724]
ENSMMUG00000055117
ENSMMUG00000020993 cadherin EGF LAG seven-pass G-type receptor 1 [Source:NCBI gene;Acc:718440]
ENSMMUG00000011702 tetraspanin 5 [Source:VGNC Symbol;Acc:VGNC:79086]
ENSMMUG00000004178 NADPH oxidase 1 [Source:VGNC Symbol;Acc:VGNC:75374]
ENSMMUG00000005801 glyceronephosphate O-acyltransferase [Source:VGNC Symbol;Acc:VGNC:73100]
ENSMMUG00000002809 unc-80 homolog, NALCN channel complex subunit [Source:NCBI gene;Acc:713007]
ENSMMUG00000010127 chitobiase [Source:VGNC Symbol;Acc:VGNC:71540]
ENSMMUG00000052676
ENSMMUG00000018058 ATP binding cassette subfamily G member 1 [Source:VGNC Symbol;Acc:VGNC:69584]
ENSMMUG00000020926 syntaxin 2 [Source:VGNC Symbol;Acc:VGNC:78259]
ENSMMUG00000015002 chromodomain helicase DNA binding protein 8 [Source:VGNC Symbol;Acc:VGNC:71060]
ENSMMUG00000019977 myosin heavy chain 15 [Source:VGNC Symbol;Acc:VGNC:84148]
ENSMMUG00000023137 zinc finger protein 350 [Source:VGNC Symbol;Acc:VGNC:79041]
ENSMMUG00000001940 NME/NM23 nucleoside diphosphate kinase 2 [Source:NCBI gene;Acc:100533957]
ENSMMUG00000007620 transmembrane serine protease 4 [Source:VGNC Symbol;Acc:VGNC:78577]
ENSMMUG00000016993 PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:VGNC Symbol;Acc:VGNC:76010]
ENSMMUG00000021670 solute carrier family 52 member 3 [Source:VGNC Symbol;Acc:VGNC:77717]
ENSMMUG00000011902 oligosaccharyltransferase complex non-catalytic subunit [Source:NCBI gene;Acc:697283]
ENSMMUG00000003049 testis expressed 11 [Source:VGNC Symbol;Acc:VGNC:78316]
ENSMMUG00000008009 family with sequence similarity 13 member B [Source:VGNC Symbol;Acc:VGNC:72268]
ENSMMUG00000058603
ENSMMUG00000020540 NmrA like redox sensor 1 [Source:VGNC Symbol;Acc:VGNC:75252]
ENSMMUG00000044214

		ENSMMUG0000009536	makorin ring finger protein 2 [Source:VGNC Symbol;Acc:VGNC:74878]
		ENSMMUG00000013848	fucosyltransferase 8 [Source:VGNC Symbol;Acc:VGNC:72829]
		ENSMMUG00000062443	
		ENSMMUG00000021552	RPGR interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:77007]
		ENSMMUG00000062140	
NS_D1 NS_D3 S_D1 S_D2 S_D3	8	ENSMMUG00000014018	bromodomain testis associated [Source:VGNC Symbol;Acc:VGNC:70282]
		ENSMMUG00000008540	ring finger protein 112 [Source:VGNC Symbol;Acc:VGNC:76724]
		ENSMMUG00000022680	alpha-2-macroglobulin like 1 [Source:VGNC Symbol;Acc:VGNC:69507]
		ENSMMUG00000008867	exoribonuclease 1 [Source:VGNC Symbol;Acc:VGNC:72324]
		ENSMMUG00000004237	TNF receptor superfamily member 19 [Source:VGNC Symbol;Acc:VGNC:78588]
		ENSMMUG00000017207	dopamine beta-hydroxylase [Source:VGNC Symbol;Acc:VGNC:71740]
		ENSMMUG00000040771	
		ENSMMUG00000003634	DExD/H-box 60 like [Source:VGNC Symbol;Acc:VGNC:71720]
NS_D1 NS_D2 NS_D3 S_D1 S_D3	27	ENSMMUG00000051641	
		ENSMMUG00000050975	
		ENSMMUG00000009524	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2 [Source:VGNC Symbol;Acc:VGNC:69861]
		ENSMMUG00000010819	fibroblast growth factor receptor substrate 2 [Source:VGNC Symbol;Acc:VGNC:72732]
		ENSMMUG00000044175	forkhead box O6 [Source:NCBI gene;Acc:697505]
		ENSMMUG00000016896	solute carrier family 12 member 1 [Source:VGNC Symbol;Acc:VGNC:77385]
		ENSMMUG00000059525	
		ENSMMUG00000032427	neuroigin 3 [Source:NCBI gene;Acc:574216]
		ENSMMUG00000012120	zinc ribbon domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78912]
		ENSMMUG00000015238	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:NCBI gene;Acc:698268]
		ENSMMUG00000008942	carnosine dipeptidase 1 [Source:VGNC Symbol;Acc:VGNC:71257]
		ENSMMUG00000018747	5-methyltetrahydrofolate-homocysteine methyltransferase reductase [Source:VGNC Symbol;Acc:VGNC:75079]
		ENSMMUG00000049997	
		ENSMMUG00000008797	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:NCBI gene;Acc:574307]
		ENSMMUG00000058580	tripartite motif containing 40 [Source:NCBI gene;Acc:100427925]
		ENSMMUG00000007709	crooked neck pre-mRNA splicing factor 1 [Source:VGNC Symbol;Acc:VGNC:71412]
		ENSMMUG00000055400	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
		ENSMMUG00000007783	isoleucyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:73458]
		ENSMMUG00000000158	minichromosome maintenance complex component 2 [Source:VGNC Symbol;Acc:VGNC:74680]
		ENSMMUG00000037625	
		ENSMMUG00000057697	
		ENSMMUG00000022602	methyltransferase like 21A [Source:VGNC Symbol;Acc:VGNC:74625]
		ENSMMUG00000015962	AT-rich interaction domain 2 [Source:VGNC Symbol;Acc:VGNC:69858]
		ENSMMUG00000023248	serine/threonine kinase 38 like [Source:VGNC Symbol;Acc:VGNC:78156]
		ENSMMUG00000011116	NADPH oxidase 4 [Source:VGNC Symbol;Acc:VGNC:75376]
		ENSMMUG00000055392	
		ENSMMUG00000021393	calcium/calmodulin dependent protein kinase II gamma [Source:VGNC Symbol;Acc:VGNC:70525]
NS_D2 NS_D3 S_D1 S_D2 S_D3	8	ENSMMUG00000061408	
		ENSMMUG00000060892	
		ENSMMUG00000042208	pepsin A-4 [Source:NCBI gene;Acc:694646]
		ENSMMUG00000064237	
		ENSMMUG00000050239	
		ENSMMUG00000020047	integrin subunit beta 3 binding protein [Source:VGNC Symbol;Acc:VGNC:73787]
		ENSMMUG00000017204	programmed cell death 4 [Source:VGNC Symbol;Acc:VGNC:75794]
		ENSMMUG00000052277	transthyretin [Source:NCBI gene;Acc:705943]
NS_D1 NS_D2 NS_D3 S_D2 S_D3	7	ENSMMUG00000006704	zygote arrest 1 [Source:VGNC Symbol;Acc:VGNC:79251]
		ENSMMUG00000001213	spermatogenesis associated 9 [Source:VGNC Symbol;Acc:VGNC:77976]
		ENSMMUG00000012778	rabphilin 3A [Source:VGNC Symbol;Acc:VGNC:77033]

		ENSMMUG00000017125	oxysterol binding protein like 11 [Source:VGNC Symbol;Acc:VGNC:75631]
		ENSMMUG00000058942	
		ENSMMUG00000022762	OMA1 zinc metalloproteinase [Source:VGNC Symbol;Acc:VGNC:75485]
		ENSMMUG00000001212	Rieske Fe-S domain containing [Source:VGNC Symbol;Acc:VGNC:84487]
NS_D1 NS_D2 S_D1 S_D2	28	ENSMMUG00000007765	Wnt family member 2B [Source:VGNC Symbol;Acc:VGNC:78797]
		ENSMMUG00000052382	histone H4 [Source:NCBI gene;Acc:107000818]
		ENSMMUG00000018031	solute carrier family 25 member 19 [Source:VGNC Symbol;Acc:VGNC:77474]
		ENSMMUG00000065031	
		ENSMMUG00000021114	G protein-coupled receptor 182 [Source:VGNC Symbol;Acc:VGNC:72936]
		ENSMMUG00000065018	transmembrane protein 35A [Source:NCBI gene;Acc:702205]
		ENSMMUG00000014762	myosin heavy chain 6 [Source:NCBI gene;Acc:713471]
		ENSMMUG00000010379	Mtr4 exosome RNA helicase [Source:VGNC Symbol;Acc:VGNC:74989]
		ENSMMUG00000012101	synaptogyrin 1 [Source:VGNC Symbol;Acc:VGNC:78068]
		ENSMMUG00000009084	transmembrane 6 superfamily member 1 [Source:VGNC Symbol;Acc:VGNC:78566]
		ENSMMUG00000022121	CASK interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70577]
		ENSMMUG00000006682	chondroitin polymerizing factor 2 [Source:VGNC Symbol;Acc:VGNC:71131]
		ENSMMUG00000016610	CD99 molecule like 2 [Source:VGNC Symbol;Acc:VGNC:70823]
		ENSMMUG00000010627	apelin receptor [Source:VGNC Symbol;Acc:VGNC:69939]
		ENSMMUG00000016052	seizure related 6 homolog like [Source:VGNC Symbol;Acc:VGNC:77176]
		ENSMMUG00000020910	nucleoporin 54 [Source:VGNC Symbol;Acc:VGNC:75420]
		ENSMMUG00000046282	
		ENSMMUG00000015371	microtubule associated serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:74532]
		ENSMMUG00000049749	
		ENSMMUG00000044473	
		ENSMMUG00000061815	
		ENSMMUG00000017432	tropomodulin 2 [Source:VGNC Symbol;Acc:VGNC:78571]
		ENSMMUG00000065117	septin 4 [Source:HGNC Symbol;Acc:HGNC:9165]
		ENSMMUG00000023124	transmembrane protein 43 [Source:VGNC Symbol;Acc:VGNC:82711]
		ENSMMUG00000049859	
		ENSMMUG00000007561	zinc finger DHHC-type palmitoyltransferase 22 [Source:NCBI gene;Acc:706468]
		ENSMMUG00000013029	surfactant protein C [Source:VGNC Symbol;Acc:VGNC:84113]
		ENSMMUG00000021691	spastin [Source:VGNC Symbol;Acc:VGNC:77857]
NS_D1 S_D1 S_D2 S_D3	11	ENSMMUG00000019462	integrin subunit alpha V [Source:VGNC Symbol;Acc:VGNC:73783]
		ENSMMUG00000007875	F-box and leucine rich repeat protein 12 [Source:VGNC Symbol;Acc:VGNC:72502]
		ENSMMUG00000022630	protoporphyrinogen oxidase [Source:VGNC Symbol;Acc:VGNC:76365]
		ENSMMUG00000005515	ATP binding cassette subfamily C member 5 [Source:VGNC Symbol;Acc:VGNC:69574]
		ENSMMUG00000002894	dedicator of cytokinesis 4 [Source:VGNC Symbol;Acc:VGNC:71866]
		ENSMMUG00000057073	
		ENSMMUG00000006688	ER membrane protein complex subunit 1 [Source:VGNC Symbol;Acc:VGNC:72134]
		ENSMMUG00000004709	proteasome inhibitor subunit 1 [Source:VGNC Symbol;Acc:VGNC:76458]
		ENSMMUG00000043809	caspase 2 [Source:VGNC Symbol;Acc:VGNC:80804]
		ENSMMUG00000051286	
		ENSMMUG00000022697	STEAP4 metalloproteinase [Source:VGNC Symbol;Acc:VGNC:77974]
NS_D1 NS_D3 S_D1 S_D2	4	ENSMMUG00000001121	zinc finger protein 689 [Source:VGNC Symbol;Acc:VGNC:79480]
		ENSMMUG00000017145	cell division cycle 123 [Source:VGNC Symbol;Acc:VGNC:70768]
		ENSMMUG00000018057	uromodulin like 1 [Source:VGNC Symbol;Acc:VGNC:78717]
		ENSMMUG00000026876	mml-mir-181a-2 [Source:miRBase;Acc:MI0002808]
NS_D1 NS_D2 S_D1 S_D3	13	ENSMMUG00000018490	ADP ribosylation factor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:69878]
		ENSMMUG00000058142	
		ENSMMUG00000002520	solute carrier family 4 member 3 [Source:VGNC Symbol;Acc:VGNC:77604]
		ENSMMUG00000038051	uncharacterized LOC106998885 [Source:NCBI gene;Acc:106998885]

ENSMMUG00000017379 myocardin related transcription factor B [Source:VGNC Symbol;Acc:VGNC:74865]
 ENSMMUG00000016004 acid phosphatase 3 [Source:VGNC Symbol;Acc:VGNC:69385]
 ENSMMUG00000004849 casein beta [Source:VGNC Symbol;Acc:VGNC:71523]
 ENSMMUG000000049939
 ENSMMUG00000008093 StAR related lipid transfer domain containing 9 [Source:NCBI gene;Acc:708953]
 ENSMMUG000000055783
 ENSMMUG000000011893 KIAA0513 [Source:VGNC Symbol;Acc:VGNC:73925]
 ENSMMUG000000064131
 ENSMMUG000000047276 GTPase, IMAP family member 6 [Source:VGNC Symbol;Acc:VGNC:81315]
 ENSMMUG000000012029 sulfatase 2 [Source:VGNC Symbol;Acc:VGNC:78179]
 ENSMMUG000000053344 splA/ryanodine receptor domain and SOCS box containing 4 [Source:NCBI gene;Acc:715278]
 ENSMMUG000000051112 p53 and DNA damage regulated 1 [Source:NCBI gene;Acc:712622]
 ENSMMUG000000022484 ITPR interacting domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73667]
 ENSMMUG000000011810 FAT atypical cadherin 4 [Source:VGNC Symbol;Acc:VGNC:72552]
 ENSMMUG000000051020 zinc finger protein 467 [Source:NCBI gene;Acc:712106]
 ENSMMUG000000053648 actin binding transcription modulator [Source:NCBI gene;Acc:710486]
 ENSMMUG000000062866
 ENSMMUG000000049437 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG000000055271
 ENSMMUG000000018346 coiled-coil domain containing 170 [Source:VGNC Symbol;Acc:VGNC:70832]
 ENSMMUG000000061260 Spi-C transcription factor [Source:NCBI gene;Acc:695809]
 ENSMMUG000000046464 coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:VGNC Symbol;Acc:VGNC:83989]
 ENSMMUG000000008525 minichromosome maintenance 9 homologous recombination repair factor [Source:VGNC Symbol;Acc:VGNC:83432]
 ENSMMUG000000008113 pleckstrin homology domain containing M3 [Source:NCBI gene;Acc:711125]
 ENSMMUG000000018332 family with sequence similarity 98 member B [Source:VGNC Symbol;Acc:VGNC:72583]
 ENSMMUG000000001894 cyclin dependent kinase 11B [Source:NCBI gene;Acc:703046]
 ENSMMUG000000001008 spectrin repeat containing nuclear envelope protein 2 [Source:NCBI gene;Acc:706759]
 ENSMMUG000000058240
 ENSMMUG000000055272 putative uncharacterized protein ZNRD1-AS1 [Source:NCBI gene;Acc:712069]
 ENSMMUG000000015619 ATP binding cassette subfamily B member 7 [Source:VGNC Symbol;Acc:VGNC:81340]
 ENSMMUG000000009520 gephyrin [Source:VGNC Symbol;Acc:VGNC:72948]
 ENSMMUG000000011573 cap methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:71271]
 ENSMMUG000000063268
 ENSMMUG000000029475 zinc finger and BTB domain containing 2 [Source:VGNC Symbol;Acc:VGNC:79291]
 ENSMMUG000000052609 ribosomal protein L34 [Source:NCBI gene;Acc:696636]
 ENSMMUG000000000117 HCK proto-oncogene, Src family tyrosine kinase [Source:VGNC Symbol;Acc:VGNC:73353]
 ENSMMUG000000044958 adhesion G protein-coupled receptor G6 [Source:VGNC Symbol;Acc:VGNC:81009]
 ENSMMUG000000022631 ubiquitin specific peptidase 21 [Source:VGNC Symbol;Acc:VGNC:78741]
 ENSMMUG000000001264 BSD domain containing 1 [Source:VGNC Symbol;Acc:VGNC:70384]
 ENSMMUG000000012473 proteasome activator subunit 2 [Source:VGNC Symbol;Acc:VGNC:76456]
 ENSMMUG000000023791 SR-related CTD associated factor 11 [Source:VGNC Symbol;Acc:VGNC:77002]
 ENSMMUG000000022636 GTPase, IMAP family member 8 [Source:VGNC Symbol;Acc:VGNC:72981]
 ENSMMUG000000004362 Fc fragment of IgG receptor Ia [Source:NCBI gene;Acc:714664]
 ENSMMUG000000019836 myocyte enhancer factor 2C [Source:VGNC Symbol;Acc:VGNC:84438]
 ENSMMUG000000009695 BTB domain containing 10 [Source:VGNC Symbol;Acc:VGNC:70361]
 ENSMMUG000000016857 prostaglandin-endoperoxide synthase 2 [Source:VGNC Symbol;Acc:VGNC:76589]
 ENSMMUG000000059101
 ENSMMUG000000003191 kirre like nephrin family adhesion molecule 1 [Source:VGNC Symbol;Acc:VGNC:73837]
 ENSMMUG000000001942 mbt domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74538]
 ENSMMUG000000043411 zinc finger and BTB domain containing 39 [Source:NCBI gene;Acc:713914]
 ENSMMUG000000002678 integrin subunit beta 6 [Source:VGNC Symbol;Acc:VGNC:73789]

NS_D1 NS_D2 NS_D3 S_D1

90

ENSMMUG0000005442 5'-nucleotidase ecto [Source:VGNC Symbol;Acc:VGNC:75537]
 ENSMMUG00000058016 bMERB domain containing 1 [Source:NCBI gene;Acc:713757]
 ENSMMUG00000015550 PR/SET domain 4 [Source:VGNC Symbol;Acc:VGNC:76393]
 ENSMMUG00000060798
 ENSMMUG00000010695 adenosine deaminase RNA specific B1 [Source:VGNC Symbol;Acc:VGNC:69503]
 ENSMMUG00000020348 BCL2 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70272]
 ENSMMUG0000002434 inhibitor of growth family member 3 [Source:VGNC Symbol;Acc:VGNC:73595]
 ENSMMUG0000006457 Rho guanine nucleotide exchange factor 40 [Source:VGNC Symbol;Acc:VGNC:69907]
 ENSMMUG00000012124 ring finger protein 39 [Source:VGNC Symbol;Acc:VGNC:83458]
 ENSMMUG00000009303 coiled-coil domain containing 38 [Source:VGNC Symbol;Acc:VGNC:70880]
 ENSMMUG00000049788
 ENSMMUG00000060932 zinc finger protein 383-like [Source:NCBI gene;Acc:106993074]
 ENSMMUG00000015151 interleukin 2 receptor subunit alpha [Source:NCBI gene;Acc:574300]
 ENSMMUG00000013799 ATP binding cassette subfamily G member 4 [Source:VGNC Symbol;Acc:VGNC:69390]
 ENSMMUG00000043161 endogenous retrovirus group FRD member 1, envelope [Source:VGNC Symbol;Acc:VGNC:81068]
 ENSMMUG00000042668 cilia and flagella associated protein 61 [Source:NCBI gene;Acc:699814]
 ENSMMUG00000002093 testis expressed 261 [Source:NCBI gene;Acc:703863]
 ENSMMUG00000050544
 ENSMMUG00000022726 dual specificity tyrosine phosphorylation regulated kinase 1B [Source:VGNC Symbol;Acc:VGNC:72016]
 ENSMMUG00000047994 CGG triplet repeat binding protein 1 [Source:VGNC Symbol;Acc:VGNC:84203]
 ENSMMUG00000051552
 ENSMMUG00000051261
 ENSMMUG00000053008
 ENSMMUG00000061268 PLAG1 zinc finger [Source:NCBI gene;Acc:696149]
 ENSMMUG00000007504 myosin VC [Source:VGNC Symbol;Acc:VGNC:75117]
 ENSMMUG00000011214 solute carrier family 12 member 2 [Source:VGNC Symbol;Acc:VGNC:77386]
 ENSMMUG00000051936
 ENSMMUG00000028925 HDGF like 2 [Source:NCBI gene;Acc:693476]
 ENSMMUG00000001245 zinc finger protein 532 [Source:NCBI gene;Acc:701146]
 ENSMMUG00000000797 exophilin 5 [Source:VGNC Symbol;Acc:VGNC:72412]
 ENSMMUG00000011183 olfactomedin like 2A [Source:VGNC Symbol;Acc:VGNC:75472]
 ENSMMUG00000056303
 ENSMMUG00000013053 sperm acrosome associated 6 [Source:NCBI gene;Acc:114674203]
 ENSMMUG00000005067 elongator acetyltransferase complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72080]
 ENSMMUG00000038587 prostate and testis expressed 2 [Source:NCBI gene;Acc:717085]
 ENSMMUG00000006775 proenkephalin [Source:VGNC Symbol;Acc:VGNC:75941]
 ENSMMUG00000052287
 ENSMMUG00000017374 G protein subunit beta 5 [Source:VGNC Symbol;Acc:VGNC:73097]
 ENSMMUG00000055759 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000062791
 ENSMMUG00000000667 zinc finger MYM-type containing 3 [Source:VGNC Symbol;Acc:VGNC:78886]
 ENSMMUG00000048823
 ENSMMUG00000003987 forkhead associated phosphopeptide binding domain 1 [Source:NCBI gene;Acc:699900]
 ENSMMUG00000016316 testis associated actin remodelling kinase 1 [Source:VGNC Symbol;Acc:VGNC:78314]
 ENSMMUG00000059406 RGP1 homolog, RAB6A GEF complex partner 1 [Source:NCBI gene;Acc:695936]
 ENSMMUG00000056737
 ENSMMUG00000001918 transmembrane protein 165 [Source:VGNC Symbol;Acc:VGNC:79875]
 ENSMMUG00000062538 adenylate cyclase type 10 [Source:NCBI gene;Acc:719662]
 ENSMMUG00000003394 cilia and flagella associated protein 300 [Source:VGNC Symbol;Acc:VGNC:71120]
 ENSMMUG00000002653 hexokinase 3 [Source:VGNC Symbol;Acc:VGNC:73476]
 ENSMMUG00000003621 AKT serine/threonine kinase 2 [Source:VGNC Symbol;Acc:VGNC:69777]

		ENSMMUG00000031296	caspase 8 [Source:VGNC Symbol;Acc:VGNC:70547]
		ENSMMUG00000005895	nucleobindin 2 [Source:VGNC Symbol;Acc:VGNC:75549]
		ENSMMUG00000012561	NOP2/Sun RNA methyltransferase family member 7 [Source:VGNC Symbol;Acc:VGNC:75463]
		ENSMMUG00000003497	FAT atypical cadherin 2 [Source:VGNC Symbol;Acc:VGNC:72618]
		ENSMMUG00000033001	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
		ENSMMUG00000014350	MAX interactor 1, dimerization protein [Source:VGNC Symbol;Acc:VGNC:75087]
		ENSMMUG00000000059	DNA topoisomerase II binding protein 1 [Source:VGNC Symbol;Acc:VGNC:79061]
		ENSMMUG00000028800	solute carrier family 7 member 9 [Source:VGNC Symbol;Acc:VGNC:77633]
		ENSMMUG00000002109	proline and serine rich 1 [Source:VGNC Symbol;Acc:VGNC:76291]
NS_D2 S_D1 S_D2 S_D3	2	ENSMMUG00000052929	
		ENSMMUG00000057276	
NS_D2 NS_D3 S_D1 S_D2	5	ENSMMUG00000057143	transmembrane protein 127 [Source:NCBI gene;Acc:705069]
		ENSMMUG00000057031	
		ENSMMUG00000060836	
		ENSMMUG00000061572	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000056363	
NS_D3 S_D1 S_D2 S_D3	7	ENSMMUG00000059267	pellino E3 ubiquitin protein ligase 1 [Source:NCBI gene;Acc:696416]
		ENSMMUG00000010050	small nuclear ribonucleoprotein polypeptides B and B1 [Source:VGNC Symbol;Acc:VGNC:77676]
		ENSMMUG00000001919	clock circadian regulator [Source:VGNC Symbol;Acc:VGNC:71262]
		ENSMMUG00000039317	cAMP responsive element binding protein 5 [Source:VGNC Symbol;Acc:VGNC:81295]
		ENSMMUG00000008945	zinc finger protein 407 [Source:NCBI gene;Acc:695303]
		ENSMMUG00000060278	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000056790	
NS_D2 NS_D3 S_D1 S_D3	1	ENSMMUG00000021053	annexin A6 [Source:VGNC Symbol;Acc:VGNC:69951]
NS_D1 NS_D2 S_D2 S_D3	1	ENSMMUG00000058583	RRAD and GEM like GTPase 1 [Source:NCBI gene;Acc:713351]
NS_D1 NS_D2 NS_D3 S_D2	6	ENSMMUG00000010508	carbamoyl-phosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:71471]
		ENSMMUG00000002947	procollagen C-endopeptidase enhancer [Source:VGNC Symbol;Acc:VGNC:75782]
		ENSMMUG00000002332	RNA binding motif protein 25 [Source:VGNC Symbol;Acc:VGNC:76521]
		ENSMMUG00000056687	
		ENSMMUG00000052642	protein O-glucosyltransferase 2 [Source:NCBI gene;Acc:702156]
		ENSMMUG00000010543	PHD finger protein 23 [Source:VGNC Symbol;Acc:VGNC:75877]
NS_D1 NS_D3 S_D2 S_D3	2	ENSMMUG00000023249	aryl hydrocarbon receptor nuclear translocator like 2 [Source:NCBI gene;Acc:709547]
		ENSMMUG00000002321	solute carrier family 24 member 3 [Source:VGNC Symbol;Acc:VGNC:77426]
			methylenetetrahydrofolate dehydrogenase, cyclohydrolase and formyltetrahydrofolate synthetase 1 [Source:VGNC
NS_D1 NS_D2 NS_D3 S_D3	8	ENSMMUG00000001319	Symbol;Acc:VGNC:84399]
		ENSMMUG00000008795	polycystin 2, transient receptor potential cation channel [Source:NCBI gene;Acc:702179]
		ENSMMUG00000015577	RIO kinase 1 [Source:VGNC Symbol;Acc:VGNC:76767]
		ENSMMUG00000022624	putative speedy protein E16 [Source:NCBI gene;Acc:718058]
		ENSMMUG00000054462	
		ENSMMUG00000022305	Rho guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:70012]
		ENSMMUG00000061761	interferon induced protein with tetratricopeptide repeats 2 [Source:NCBI gene;Acc:695452]
		ENSMMUG00000055447	MDM2 proto-oncogene [Source:NCBI gene;Acc:718284]
NS_D2 NS_D3 S_D2 S_D3	2	ENSMMUG00000061239	
		ENSMMUG00000006251	argonate RISC component 1 [Source:VGNC Symbol;Acc:VGNC:81346]
NS_D1 S_D1 S_D2	15	ENSMMUG00000007246	myotubularin related protein 11 [Source:VGNC Symbol;Acc:VGNC:75016]
		ENSMMUG00000022056	DENN domain containing 4A [Source:VGNC Symbol;Acc:VGNC:71697]
		ENSMMUG00000059773	methyltransferase like 11B [Source:NCBI gene;Acc:705503]
		ENSMMUG00000021914	spondin 1 [Source:VGNC Symbol;Acc:VGNC:77862]
		ENSMMUG00000019815	transcription factor AP-2 epsilon [Source:VGNC Symbol;Acc:VGNC:79878]
		ENSMMUG00000008639	tumor protein p53 [Source:VGNC Symbol;Acc:VGNC:78627]
		ENSMMUG00000016906	F-box and leucine rich repeat protein 16 [Source:VGNC Symbol;Acc:VGNC:81405]

NS_D1 NS_D2 S_D1

93 ENSMMUG00000011469 germ cell nuclear acidic peptidase [Source:VGNC Symbol;Acc:VGNC:72724]
ENSMMUG00000012338 G protein-coupled receptor 183 [Source:VGNC Symbol;Acc:VGNC:73042]
ENSMMUG00000004674 phosphoribosyl pyrophosphate synthetase 1 [Source:NCBI gene;Acc:702529]
ENSMMUG00000052977 putative protein FAM106C [Source:NCBI gene;Acc:106994084]
ENSMMUG00000045446
ENSMMUG00000061433
ENSMMUG00000040764 alcohol dehydrogenase 1A [Source:NCBI gene;Acc:100424103]
ENSMMUG00000059986
ENSMMUG00000053036
ENSMMUG00000013035 teashirt zinc finger homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78875]
ENSMMUG00000061068
ENSMMUG00000000618 gametogenetin binding protein 2 [Source:VGNC Symbol;Acc:VGNC:72746]
ENSMMUG00000000205 transmembrane protein 117 [Source:VGNC Symbol;Acc:VGNC:79488]
ENSMMUG00000019045 estrogen receptor 1 [Source:VGNC Symbol;Acc:VGNC:72432]
ENSMMUG00000018081 ubiquitin associated and SH3 domain containing A [Source:VGNC Symbol;Acc:VGNC:78687]
ENSMMUG00000062021
ENSMMUG00000002497 zinc finger protein 777 [Source:HGNC Symbol;Acc:HGNC:22213]
ENSMMUG00000013032 phytanoyl-CoA 2-hydroxylase interacting protein [Source:VGNC Symbol;Acc:VGNC:75812]
ENSMMUG00000044047 killer cell lectin like receptor B1 [Source:NCBI gene;Acc:100430783]
ENSMMUG00000065008
ENSMMUG00000006553 dishevelled segment polarity protein 3 [Source:VGNC Symbol;Acc:VGNC:72014]
ENSMMUG00000021377 SPT3 homolog, SAGA and STAGA complex component [Source:VGNC Symbol;Acc:VGNC:78055]
ENSMMUG00000018679 glyceraldehyde-3-phosphate dehydrogenase [Source:NCBI gene;Acc:574353]
ENSMMUG00000052786
ENSMMUG00000012467 family with sequence similarity 227 member A [Source:VGNC Symbol;Acc:VGNC:72475]
ENSMMUG00000024186 U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]
ENSMMUG00000054532
ENSMMUG00000061834
ENSMMUG00000000669 gap junction protein beta 1 [Source:VGNC Symbol;Acc:VGNC:73059]
ENSMMUG00000019148 vitronectin [Source:NCBI gene;Acc:708499]
ENSMMUG00000060527
ENSMMUG00000014531 transmembrane protein 109 [Source:VGNC Symbol;Acc:VGNC:79740]
ENSMMUG00000064458
ENSMMUG00000061117
ENSMMUG00000063655 sodium voltage-gated channel beta subunit 4 [Source:NCBI gene;Acc:100430940]
ENSMMUG00000007920 myosin XIX [Source:VGNC Symbol;Acc:VGNC:75026]
ENSMMUG00000023443 SRR1 domain containing [Source:VGNC Symbol;Acc:VGNC:78036]
ENSMMUG00000005923 failed axon connections homolog, metaxin like GST domain containing [Source:VGNC Symbol;Acc:VGNC:72541]
ENSMMUG00000009958 ankyrin repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:69719]
ENSMMUG00000007775 survival motor neuron domain containing 1 [Source:NCBI gene;Acc:694761]
ENSMMUG00000001294 FCH and double SH3 domains 2 [Source:VGNC Symbol;Acc:VGNC:72593]
ENSMMUG00000045105 phospholipase A and acyltransferase 4 [Source:NCBI gene;Acc:722189]
ENSMMUG00000022123 tRNA splicing endonuclease subunit 54 [Source:VGNC Symbol;Acc:VGNC:79666]
ENSMMUG00000052282
ENSMMUG00000012332 UBA domain containing 2 [Source:NCBI gene;Acc:703484]
ENSMMUG00000019854 transmembrane protein 108 [Source:VGNC Symbol;Acc:VGNC:79714]
ENSMMUG00000022601 cAMP responsive element binding protein 1 [Source:VGNC Symbol;Acc:VGNC:71485]
ENSMMUG00000010114 Ras and Rab interactor 2 [Source:VGNC Symbol;Acc:VGNC:76770]
ENSMMUG00000007244 OTU deubiquitinase 7B [Source:VGNC Symbol;Acc:VGNC:75634]
ENSMMUG00000015414 family with sequence similarity 160 member B1 [Source:VGNC Symbol;Acc:VGNC:72403]
ENSMMUG00000012209 CYLD lysine 63 deubiquitinase [Source:VGNC Symbol;Acc:VGNC:71581]

ENSMMUG00000023012 vesicle trafficking 1 [Source:VGNC Symbol;Acc:VGNC:79296]
 ENSMMUG00000018493 FH2 domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72598]
 ENSMMUG00000017355 remodeling and spacing factor 1 [Source:VGNC Symbol;Acc:VGNC:77044]
 ENSMMUG00000005610 protein tyrosine phosphatase non-receptor type 4 [Source:VGNC Symbol;Acc:VGNC:76605]
 ENSMMUG00000062413 CCAAT enhancer binding protein gamma [Source:NCBI gene;Acc:704322]
 ENSMMUG00000022927 RCAN family member 3 [Source:VGNC Symbol;Acc:VGNC:76875]
 ENSMMUG00000000690 catenin alpha like 1 [Source:VGNC Symbol;Acc:VGNC:71544]
 ENSMMUG00000046218 X antigen family member 5 [Source:NCBI gene;Acc:114669729]
 ENSMMUG00000020898 cap binding complex dependent translation initiation factor [Source:HGNC Symbol;Acc:HGNC:23925]
 ENSMMUG00000004754 intermediate filament family orphan 2 [Source:NCBI gene;Acc:106995162]
 ENSMMUG00000023076 diacylglycerol kinase eta [Source:VGNC Symbol;Acc:VGNC:71786]
 ENSMMUG00000007766 suppression of tumorigenicity 7 like [Source:VGNC Symbol;Acc:VGNC:77954]
 ENSMMUG00000062861
 ENSMMUG00000000663 guanylate-binding protein 6-like [Source:NCBI gene;Acc:695158]
 ENSMMUG00000062676
 ENSMMUG00000000620 dehydrogenase/reductase 11 [Source:VGNC Symbol;Acc:VGNC:71792]
 ENSMMUG00000056147
 ENSMMUG00000029197 YY1 transcription factor [Source:NCBI gene;Acc:717370]
 ENSMMUG00000043922 spermatogenesis associated 48 [Source:VGNC Symbol;Acc:VGNC:81762]
 ENSMMUG00000052791
 ENSMMUG00000005042 RAB, member RAS oncogene family like 6 [Source:VGNC Symbol;Acc:VGNC:76529]
 ENSMMUG00000023558 exocyst complex component 2 [Source:VGNC Symbol;Acc:VGNC:72338]
 ENSMMUG00000004208 serine dehydratase [Source:VGNC Symbol;Acc:VGNC:77148]
 ENSMMUG00000018939 leucine rich repeat containing 66 [Source:VGNC Symbol;Acc:VGNC:74415]
 ENSMMUG00000049575 T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:HGNC:12236]
 ENSMMUG00000006215 serine/threonine kinase 39 [Source:VGNC Symbol;Acc:VGNC:81587]
 ENSMMUG00000051429
 ENSMMUG00000051768
 ENSMMUG00000014810 short chain dehydrogenase/reductase family 16C member 5 [Source:VGNC Symbol;Acc:VGNC:77343]
 ENSMMUG00000054176 methyltransferase like 8 [Source:NCBI gene;Acc:695361]
 ENSMMUG00000020377 collagen type VI alpha 5 chain [Source:NCBI gene;Acc:719331]
 ENSMMUG00000016723 zinc finger protein 287 [Source:NCBI gene;Acc:695524]
 ENSMMUG00000051670
 ENSMMUG00000015041 CWC27 spliceosome associated cyclophilin [Source:VGNC Symbol;Acc:VGNC:71396]
 ENSMMUG00000007257 synaptic vesicle glycoprotein 2A [Source:VGNC Symbol;Acc:VGNC:78181]
 ENSMMUG00000031821 chymotrypsin-like elastase family member 2B [Source:NCBI gene;Acc:106992406]
 ENSMMUG00000016135 neural precursor cell expressed, developmentally down-regulated 9 [Source:VGNC Symbol;Acc:VGNC:75304]
 ENSMMUG00000053550
 ENSMMUG00000007215 X-box binding protein 1 [Source:VGNC Symbol;Acc:VGNC:78806]
 ENSMMUG00000007250 RNA binding motif protein 28 [Source:VGNC Symbol;Acc:VGNC:76519]
 ENSMMUG00000063262
 ENSMMUG00000021775 beta-1,3-galactosyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70204]
 ENSMMUG00000050862
 ENSMMUG00000002961 G protein subunit alpha 11 [Source:VGNC Symbol;Acc:VGNC:73085]
 ENSMMUG00000022120 transmembrane protein 94 [Source:VGNC Symbol;Acc:VGNC:79760]
 ENSMMUG00000054953 leucine rich repeat containing 10 [Source:NCBI gene;Acc:114669753]
 ENSMMUG00000057021 CLOCK interacting pacemaker [Source:NCBI gene;Acc:704679]
 ENSMMUG00000057651 frizzled class receptor 5 [Source:NCBI gene;Acc:710796]
 ENSMMUG00000007968 hedgehog interacting protein [Source:VGNC Symbol;Acc:VGNC:73169]
 ENSMMUG00000019145 TNF alpha induced protein 1 [Source:VGNC Symbol;Acc:VGNC:78578]
 27 ENSMMUG00000054719

ENSMMUG00000060167
 ENSMMUG00000018525 presenilin 2 [Source:VGNC Symbol;Acc:VGNC:76436]
 ENSMMUG00000048232 MINDY family member 4B [Source:VGNC Symbol;Acc:VGNC:84153]
 ENSMMUG00000006768 coiled-coil domain containing 196 [Source:VGNC Symbol;Acc:VGNC:70828]
 ENSMMUG00000006842 doublecortin domain containing 1 [Source:NCBI gene;Acc:696721]
 ENSMMUG00000052651 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000023401 adhesion G protein-coupled receptor B2 [Source:VGNC Symbol;Acc:VGNC:69598]
 ENSMMUG00000059327 NUS1 dehydrodolichyl diphosphate synthase subunit [Source:NCBI gene;Acc:715015]
 ENSMMUG00000017593 CD3e molecule [Source:VGNC Symbol;Acc:VGNC:70764]
 ENSMMUG00000008918 SRP receptor subunit beta [Source:VGNC Symbol;Acc:VGNC:77980]
 ENSMMUG00000001549 ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674453]
 ENSMMUG00000008916 transferrin [Source:VGNC Symbol;Acc:VGNC:82716]
 ENSMMUG00000053541
 ENSMMUG00000008781 BCL6 corepressor like 1 [Source:VGNC Symbol;Acc:VGNC:70131]
 ENSMMUG00000058836 transmembrane p24 trafficking protein 2 [Source:NCBI gene;Acc:106992483]
 ENSMMUG00000014474 SPARC related modular calcium binding 2 [Source:VGNC Symbol;Acc:VGNC:83470]
 ENSMMUG00000016893 solute carrier family 9 member A1 [Source:VGNC Symbol;Acc:VGNC:82241]
 ENSMMUG00000020436 potassium voltage-gated channel subfamily H member 2 [Source:VGNC Symbol;Acc:VGNC:73980]
 ENSMMUG00000021168 unc-5 family C-terminal like [Source:VGNC Symbol;Acc:VGNC:79314]
 ENSMMUG00000004091 transcription factor 12 [Source:VGNC Symbol;Acc:VGNC:78283]
 ENSMMUG00000001374 supervillin [Source:NCBI gene;Acc:695267]
 ENSMMUG00000022044 scavenger receptor class A member 5 [Source:VGNC Symbol;Acc:VGNC:77117]
 ENSMMUG00000008919 RAB6B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81547]
 ENSMMUG00000019857 beaded filament structural protein 2 [Source:VGNC Symbol;Acc:VGNC:70245]
 ENSMMUG00000002176 ubiquitin like with PHD and ring finger domains 2 [Source:VGNC Symbol;Acc:VGNC:78714]
 ENSMMUG00000023226 RNA polymerase III subunit D [Source:VGNC Symbol;Acc:VGNC:76017]
 26 ENSMMUG00000017628 pleckstrin homology domain containing A7 [Source:VGNC Symbol;Acc:VGNC:76121]
 ENSMMUG00000013707 heat shock protein family H (Hsp110) member 1 [Source:NCBI gene;Acc:721956]
 ENSMMUG00000051523 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000001640 SIX homeobox 4 [Source:NCBI gene;Acc:703798]
 ENSMMUG00000001892 UDP-glucose 6-dehydrogenase [Source:VGNC Symbol;Acc:VGNC:78711]
 ENSMMUG00000016543 CREB/ATF bZIP transcription factor [Source:VGNC Symbol;Acc:VGNC:71538]
 ENSMMUG00000023810 methionyl-tRNA synthetase 2, mitochondrial [Source:VGNC Symbol;Acc:VGNC:74572]
 ENSMMUG00000003288 glutamic--pyruvic transaminase 2 [Source:VGNC Symbol;Acc:VGNC:72962]
 ENSMMUG00000000058 CDV3 homolog [Source:VGNC Symbol;Acc:VGNC:71114]
 ENSMMUG00000059938
 ENSMMUG00000006217 general transcription factor IIH subunit 2 [Source:NCBI gene;Acc:700737]
 ENSMMUG00000015640 AF4/FMR2 family member 4 [Source:VGNC Symbol;Acc:VGNC:69629]
 ENSMMUG00000017396 3'(2'), 5'-bisphosphate nucleotidase 1 [Source:NCBI gene;Acc:721277]
 ENSMMUG00000023083 A-kinase anchoring protein 11 [Source:VGNC Symbol;Acc:VGNC:69765]
 ENSMMUG00000058933
 ENSMMUG00000020435 amine oxidase copper containing 1 [Source:VGNC Symbol;Acc:VGNC:70033]
 ENSMMUG00000061590
 ENSMMUG00000050923
 ENSMMUG00000031202 RAB1B, member RAS oncogene family [Source:NCBI gene;Acc:721852]
 ENSMMUG00000018976 adhesion G protein-coupled receptor V1 [Source:VGNC Symbol;Acc:VGNC:69625]
 ENSMMUG00000020036 Sp1 transcription factor [Source:VGNC Symbol;Acc:VGNC:77844]
 ENSMMUG00000063463
 ENSMMUG00000014955 nuclear receptor subfamily 3 group C member 2 [Source:VGNC Symbol;Acc:VGNC:75516]
 ENSMMUG00000008539 uroporphyrinogen III synthase [Source:VGNC Symbol;Acc:VGNC:78731]
 ENSMMUG00000018163 caspase 9 [Source:NCBI gene;Acc:694544]

NS_D1 NS_D3 S_D1

		ENSMMUG00000014809	heterogeneous nuclear ribonucleoprotein C [Source:VGNC Symbol;Acc:VGNC:84348]
NS_D2 S_D1 S_D2	2	ENSMMUG00000004791	pleckstrin homology domain containing B1 [Source:VGNC Symbol;Acc:VGNC:76069]
		ENSMMUG000000050864	
S_D1 S_D2 S_D3	6	ENSMMUG000000061035	ZFP82 zinc finger protein [Source:NCBI gene;Acc:719145]
		ENSMMUG00000004606	EMAP like 5 [Source:VGNC Symbol;Acc:VGNC:72067]
		ENSMMUG000000021051	TNFAIP3 interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:79057]
		ENSMMUG000000021169	translocator protein 2 [Source:VGNC Symbol;Acc:VGNC:83960]
		ENSMMUG000000055590	
		ENSMMUG000000017378	steroid sulfatase [Source:VGNC Symbol;Acc:VGNC:81590]
NS_D3 S_D1 S_D2	1	ENSMMUG000000052605	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
NS_D2 NS_D3 S_D1	11	ENSMMUG000000002250	beta-1,3-glucuronyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:70207]
		ENSMMUG000000018739	sperm flagellar 2 [Source:VGNC Symbol;Acc:VGNC:82243]
		ENSMMUG000000057302	
		ENSMMUG000000009087	HDGF like 3 [Source:VGNC Symbol;Acc:VGNC:84346]
		ENSMMUG000000063668	cytochrome b5 domain containing 1 [Source:NCBI gene;Acc:716429]
		ENSMMUG000000009702	mutS homolog 5 [Source:NCBI gene;Acc:715494]
		ENSMMUG000000051169	
		ENSMMUG000000016331	glucosylceramidase beta 2 [Source:VGNC Symbol;Acc:VGNC:72741]
		ENSMMUG000000017206	SHOC2 leucine rich repeat scaffold protein [Source:VGNC Symbol;Acc:VGNC:81569]
		ENSMMUG000000007187	haloacid dehalogenase like hydrolase domain containing 3 [Source:VGNC Symbol;Acc:VGNC:73250]
		ENSMMUG000000012690	myocardial zonula adherens protein [Source:NCBI gene;Acc:700247]
NS_D1 NS_D2 S_D2	2	ENSMMUG000000012953	stress induced phosphoprotein 1 [Source:NCBI gene;Acc:717926]
		ENSMMUG000000000972	tyrosine kinase non receptor 2 [Source:VGNC Symbol;Acc:VGNC:79192]
NS_D1 NS_D3 S_D2	2	ENSMMUG000000007159	tubulin epsilon and delta complex 1 [Source:VGNC Symbol;Acc:VGNC:79235]
		ENSMMUG000000020184	carboxypeptidase vitellogenic like [Source:VGNC Symbol;Acc:VGNC:71406]
NS_D1 NS_D2 S_D3	3	ENSMMUG000000005634	ribonuclease L [Source:VGNC Symbol;Acc:VGNC:82223]
		ENSMMUG000000002370	integrin subunit alpha 6 [Source:VGNC Symbol;Acc:VGNC:73780]
		ENSMMUG000000008713	myosin binding protein H like [Source:NCBI gene;Acc:698183]
NS_D1 NS_D2 NS_D3	112	ENSMMUG000000023752	SIX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:81570]
		ENSMMUG000000050245	
		ENSMMUG000000014997	spalt like transcription factor 2 [Source:NCBI gene;Acc:708367]
		ENSMMUG000000056824	
		ENSMMUG000000015168	transmembrane p24 trafficking protein 10 [Source:NCBI gene;Acc:701522]
		ENSMMUG000000016871	alkaline phosphatase, intestinal [Source:VGNC Symbol;Acc:VGNC:69800]
		ENSMMUG000000053624	
		ENSMMUG000000059922	family with sequence similarity 104 member B [Source:NCBI gene;Acc:705418]
		ENSMMUG000000009831	TBC1 domain family member 2 [Source:VGNC Symbol;Acc:VGNC:78157]
		ENSMMUG000000051190	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG000000025616	
		ENSMMUG000000002032	exportin 7 [Source:VGNC Symbol;Acc:VGNC:78946]
		ENSMMUG000000052460	
		ENSMMUG000000010113	steroid 5 alpha-reductase 3 [Source:VGNC Symbol;Acc:VGNC:82246]
		ENSMMUG000000060536	
		ENSMMUG000000004287	death domain associated protein [Source:VGNC Symbol;Acc:VGNC:71737]
		ENSMMUG000000026103	U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]
		ENSMMUG000000049117	CLU1 antisense RNA 1 [Source:NCBI gene;Acc:100424000]
		ENSMMUG000000016286	protease, serine, 1 (trypsin 1) [Source:NCBI gene;Acc:698729]
		ENSMMUG000000016845	zinc finger E-box binding homeobox 2 [Source:VGNC Symbol;Acc:VGNC:78969]
		ENSMMUG000000001800	cullin 5 [Source:VGNC Symbol;Acc:VGNC:71570]
		ENSMMUG000000007868	AP2 associated kinase 1 [Source:VGNC Symbol;Acc:VGNC:82094]
		ENSMMUG000000022724	

ENSMMUG00000054302 antioxidant 1 copper chaperone [Source:NCBI gene;Acc:712464]
ENSMMUG0000000718 ERCC excision repair 1, endonuclease non-catalytic subunit [Source:VGNC Symbol;Acc:VGNC:72422]
ENSMMUG00000061344
ENSMMUG00000002649 unc-5 netrin receptor A [Source:VGNC Symbol;Acc:VGNC:78721]
ENSMMUG0000000229 transient receptor potential cation channel subfamily C member 4 associated protein [Source:VGNC Symbol;Acc:VGNC:79014]
ENSMMUG00000031736
ENSMMUG00000004052 phosphodiesterase 12 [Source:VGNC Symbol;Acc:VGNC:75863]
ENSMMUG00000022676 ribosomal modification protein rimK like family member B [Source:NCBI gene;Acc:722261]
ENSMMUG00000060455
ENSMMUG00000014027 nitric oxide synthase 1 [Source:VGNC Symbol;Acc:VGNC:75368]
ENSMMUG00000004387 ring finger protein 19A, RBR E3 ubiquitin protein ligase [Source:VGNC Symbol;Acc:VGNC:82224]
ENSMMUG00000013907 ribosomal protein S27a [Source:NCBI gene;Acc:718909]
ENSMMUG00000022589 prostate transmembrane protein, androgen induced 1 [Source:VGNC Symbol;Acc:VGNC:76023]
ENSMMUG00000008632 myosin, light chain 6, alkali, smooth muscle and non-muscle-like [Source:NCBI gene;Acc:710137]
ENSMMUG00000056165
ENSMMUG00000004566 zinc finger protein 124 [Source:VGNC Symbol;Acc:VGNC:78836]
ENSMMUG00000022656 perilipin 4 [Source:NCBI gene;Acc:693610]
ENSMMUG00000023446 tuftelin interacting protein 11 [Source:VGNC Symbol;Acc:VGNC:78399]
ENSMMUG00000053889 olfactory receptor 7C1 [Source:NCBI gene;Acc:114674087]
ENSMMUG00000020812 A-kinase anchoring protein 3 [Source:VGNC Symbol;Acc:VGNC:69769]
ENSMMUG00000059038 5-hydroxytryptamine receptor 7 [Source:NCBI gene;Acc:696317]
ENSMMUG00000013503 mannose-P-dolichol utilization defect 1 [Source:VGNC Symbol;Acc:VGNC:74913]
ENSMMUG00000008710 protocadherin 1 [Source:VGNC Symbol;Acc:VGNC:75775]
ENSMMUG00000056910
ENSMMUG00000058332 testis expressed 46 [Source:NCBI gene;Acc:709002]
ENSMMUG00000051155 U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]
ENSMMUG00000037806 chromosome 6 C5orf63 homolog [Source:NCBI gene;Acc:100423212]
ENSMMUG00000061594
ENSMMUG00000060579
ENSMMUG00000049786
ENSMMUG00000003877 KAT8 regulatory NSL complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:73910]
ENSMMUG00000015004 TOX high mobility group box family member 4 [Source:NCBI gene;Acc:706950]
ENSMMUG00000017173 heat shock protein family A (Hsp70) member 14 [Source:NCBI gene;Acc:697257]
ENSMMUG00000017892 RNA polymerase I subunit E [Source:VGNC Symbol;Acc:VGNC:76047]
ENSMMUG00000011401 amyloid beta precursor protein binding family A member 1 [Source:VGNC Symbol;Acc:VGNC:69976]
ENSMMUG00000051522 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000003221 DENN domain containing 5B [Source:VGNC Symbol;Acc:VGNC:71772]
ENSMMUG00000021507 chromosome 2 C3orf38 homolog [Source:VGNC Symbol;Acc:VGNC:70654]
ENSMMUG00000031965 aminolevulinate dehydratase [Source:VGNC Symbol;Acc:VGNC:69779]
ENSMMUG00000028701
ENSMMUG00000051999
ENSMMUG00000012151 glycerol kinase 5 [Source:VGNC Symbol;Acc:VGNC:73022]
ENSMMUG00000052518 SIVA1 apoptosis inducing factor [Source:NCBI gene;Acc:706688]
ENSMMUG00000007001 protein phosphatase 4 regulatory subunit 3B [Source:VGNC Symbol;Acc:VGNC:76342]
ENSMMUG00000060062
ENSMMUG00000021534 solute carrier family 16 member 10 [Source:NCBI gene;Acc:696132]
ENSMMUG00000018972 RNA polymerase III subunit G [Source:VGNC Symbol;Acc:VGNC:84480]
ENSMMUG00000005751 adenosine deaminase tRNA specific 1 [Source:VGNC Symbol;Acc:VGNC:69504]
ENSMMUG00000064202
ENSMMUG00000037485
ENSMMUG00000043682 mitochondrial carrier 2 [Source:NCBI gene;Acc:712767]

ENSMMUG00000044782
 ENSMMUG0000003973 autophagy related 2A [Source:VGNC Symbol;Acc:VGNC:70145]
 ENSMMUG00000018827 multiple EGF like domains 10 [Source:VGNC Symbol;Acc:VGNC:74617]
 ENSMMUG0000006309 unc-5 netrin receptor C [Source:VGNC Symbol;Acc:VGNC:78723]
 ENSMMUG00000016077 isocitrate dehydrogenase (NADP(+)) 1 [Source:NCBI gene;Acc:710019]
 ENSMMUG00000022625 periaxin [Source:VGNC Symbol;Acc:VGNC:76248]
 ENSMMUG00000063703
 ENSMMUG00000024598 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG0000007255 microtubule associated protein 1A [Source:VGNC Symbol;Acc:VGNC:74489]
 ENSMMUG00000032892 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000060505
 ENSMMUG00000060830
 ENSMMUG0000009782 C-C motif chemokine ligand 7 [Source:NCBI gene;Acc:714751]
 ENSMMUG00000056544
 ENSMMUG00000043727 zinc finger protein 654 [Source:VGNC Symbol;Acc:VGNC:82560]
 ENSMMUG00000061779
 ENSMMUG00000054817 immunoglobulin binding protein 1 [Source:NCBI gene;Acc:694632]
 ENSMMUG00000055835 nuclear casein kinase and cyclin dependent kinase substrate 1 [Source:NCBI gene;Acc:697298]
 ENSMMUG00000060503 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000015702 divergent protein kinase domain 1C [Source:NCBI gene;Acc:699537]
 ENSMMUG00000044628
 ENSMMUG00000001172 spermatogenesis and oogenesis specific basic helix-loop-helix 2 [Source:NCBI gene;Acc:693608]
 ENSMMUG00000005181 RAB3C, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81541]
 ENSMMUG00000048322 eva-1 homolog A, regulator of programmed cell death [Source:NCBI gene;Acc:710843]
 ENSMMUG00000007524 RNA polymerase II subunit H [Source:VGNC Symbol;Acc:VGNC:76216]
 ENSMMUG00000051661
 ENSMMUG00000044537 DNA polymerase epsilon 3, accessory subunit [Source:NCBI gene;Acc:705074]
 ENSMMUG00000049539
 ENSMMUG00000012474 ring finger protein 31 [Source:NCBI gene;Acc:715239]
 ENSMMUG00000008459 pleckstrin homology and RUN domain containing M1 [Source:NCBI gene;Acc:716464]
 ENSMMUG00000004386 sperm associated antigen 1 [Source:VGNC Symbol;Acc:VGNC:77849]
 ENSMMUG00000052817 Sp7 transcription factor [Source:NCBI gene;Acc:702575]
 ENSMMUG00000054821
 ENSMMUG00000023141 CDC like kinase 2 [Source:VGNC Symbol;Acc:VGNC:71259]
 ENSMMUG00000021331 EBF family member 4 [Source:VGNC Symbol;Acc:VGNC:71932]
 ENSMMUG00000017931 gamma-glutamyltransferase 7 [Source:VGNC Symbol;Acc:VGNC:72921]
 ENSMMUG00000059115
 ENSMMUG00000019105 RNA 3'-terminal phosphate cyclase [Source:VGNC Symbol;Acc:VGNC:77043]
 NS_D1 NS_D3 S_D3 7 ENSMMUG00000032973 mml-mir-550 [Source:miRBase;Acc:MI0007826]
 ENSMMUG00000020928 nucleolar protein interacting with the FHA domain of MKI67 [Source:VGNC Symbol;Acc:VGNC:75201]
 ENSMMUG00000015311 leucine rich repeats and calponin homology domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74441]
 ENSMMUG00000056054 zinc finger and BTB domain containing 3 [Source:NCBI gene;Acc:722240]
 ENSMMUG00000040854 aspartyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:84226]
 ENSMMUG00000057544
 NS_D2 NS_D3 S_D2 4 ENSMMUG00000007692 apolipoprotein B [Source:VGNC Symbol;Acc:VGNC:69985]
 ENSMMUG00000001225 calneuron 1 [Source:VGNC Symbol;Acc:VGNC:82078]
 ENSMMUG00000002755 kelch like family member 5 [Source:VGNC Symbol;Acc:VGNC:74188]
 ENSMMUG00000054590
 ENSMMUG00000017414 calcium voltage-gated channel subunit alpha1 S [Source:VGNC Symbol;Acc:VGNC:70507]
 NS_D3 S_D2 S_D3 1 ENSMMUG00000016093 adenosine deaminase RNA specific [Source:VGNC Symbol;Acc:VGNC:69502]
 NS_D2 NS_D3 S_D3 11 ENSMMUG00000017549 ectonucleotide pyrophosphatase/phosphodiesterase 3 [Source:VGNC Symbol;Acc:VGNC:72224]

NS_D1 S_D1

139 ENSMMUG00000008941 DNA topoisomerase II alpha [Source:VGNC Symbol;Acc:VGNC:78620]
ENSMMUG00000014394 DnaJ heat shock protein family (Hsp40) member C10 [Source:VGNC Symbol;Acc:VGNC:84229]
ENSMMUG00000021459 MYC binding protein 2 [Source:VGNC Symbol;Acc:VGNC:75011]
ENSMMUG00000014314 ankyrin and armadillo repeat containing [Source:VGNC Symbol;Acc:VGNC:69706]
ENSMMUG00000021034 complement C6 [Source:VGNC Symbol;Acc:VGNC:70477]
ENSMMUG00000013094 lipoyl(octanoyl) transferase 2 [Source:NCBI gene;Acc:718425]
ENSMMUG00000052031
ENSMMUG00000004492 absent in melanoma 2 [Source:NCBI gene;Acc:719260]
ENSMMUG00000013093 uncharacterized LOC106993385 [Source:NCBI gene;Acc:106993385]
ENSMMUG00000000388 plectin [Source:VGNC Symbol;Acc:VGNC:76173]
ENSMMUG000000003631 cytoskeleton associated protein 5 [Source:VGNC Symbol;Acc:VGNC:71368]
ENSMMUG00000020690 erythrocyte membrane protein band 4.1 like 1 [Source:VGNC Symbol;Acc:VGNC:72231]
ENSMMUG00000008738 COMM domain containing 10 [Source:VGNC Symbol;Acc:VGNC:71374]
ENSMMUG00000065344 homeobox D1 [Source:NCBI gene;Acc:701064]
ENSMMUG00000022880 eukaryotic translation initiation factor 5A2 [Source:VGNC Symbol;Acc:VGNC:72198]
ENSMMUG00000013718 translocation associated membrane protein 2 [Source:VGNC Symbol;Acc:VGNC:83515]
ENSMMUG00000061295 PDZ domain containing 11 [Source:NCBI gene;Acc:695458]
ENSMMUG00000053250
ENSMMUG00000000350 basic, immunoglobulin-like variable motif containing [Source:NCBI gene;Acc:100426213]
ENSMMUG00000005225 gap junction protein alpha 1 [Source:VGNC Symbol;Acc:VGNC:73055]
ENSMMUG00000019838 phosphodiesterase 8A [Source:VGNC Symbol;Acc:VGNC:75924]
ENSMMUG00000052070 caudal type homeobox 2 [Source:NCBI gene;Acc:711094]
ENSMMUG00000012307 periostin [Source:VGNC Symbol;Acc:VGNC:76039]
ENSMMUG00000006950 cornichon family AMPA receptor auxiliary protein 2 [Source:VGNC Symbol;Acc:VGNC:71366]
ENSMMUG00000053794
ENSMMUG00000059208 aurora kinase A interacting protein 1 [Source:NCBI gene;Acc:706329]
ENSMMUG00000062615
ENSMMUG00000008792 G-patch domain containing 2 like [Source:VGNC Symbol;Acc:VGNC:72973]
ENSMMUG00000008917 S100 calcium binding protein A6 [Source:VGNC Symbol;Acc:VGNC:76960]
ENSMMUG00000064337 nectin cell adhesion molecule 4 [Source:NCBI gene;Acc:719843]
ENSMMUG00000013183 F-box and leucine rich repeat protein 17 [Source:VGNC Symbol;Acc:VGNC:82142]
ENSMMUG00000013937 RAB41, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81544]
ENSMMUG00000064806
ENSMMUG00000007293 RAB34, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81533]
ENSMMUG00000021808 cryptochrome circadian regulator 1 [Source:VGNC Symbol;Acc:VGNC:71499]
ENSMMUG00000002589 sulfotransferase 1C3-like [Source:NCBI gene;Acc:114671897]
ENSMMUG00000017486 minichromosome maintenance complex component 6 [Source:VGNC Symbol;Acc:VGNC:74685]
ENSMMUG00000064980
ENSMMUG00000002010 death effector domain containing [Source:VGNC Symbol;Acc:VGNC:71768]
ENSMMUG00000062642
ENSMMUG00000000807 tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase [Source:VGNC Symbol;Acc:VGNC:79500]
ENSMMUG00000022632 ubiquitin-fold modifier conjugating enzyme 1 [Source:VGNC Symbol;Acc:VGNC:79643]
ENSMMUG00000049396 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000039033 nucleolar protein with MIF4G domain 1 [Source:VGNC Symbol;Acc:VGNC:81729]
ENSMMUG00000016695 CD320 molecule [Source:VGNC Symbol;Acc:VGNC:70763]
ENSMMUG00000006446 transmembrane protein 177 [Source:VGNC Symbol;Acc:VGNC:79686]
ENSMMUG00000048892 SCO-spondin [Source:VGNC Symbol;Acc:VGNC:81765]
ENSMMUG00000011963 vimentin type intermediate filament associated coiled-coil protein [Source:NCBI gene;Acc:697958]
ENSMMUG00000004329 solute carrier family 1 member 2 [Source:VGNC Symbol;Acc:VGNC:77410]
ENSMMUG00000012224 family with sequence similarity 126 member B [Source:VGNC Symbol;Acc:VGNC:72393]
ENSMMUG00000021173 nuclear transcription factor Y subunit alpha [Source:VGNC Symbol;Acc:VGNC:75344]

ENSMMUG0000001551 SSU72 homolog, RNA polymerase II CTD phosphatase [Source:VGNC Symbol;Acc:VGNC:77986]
ENSMMUG00000055233 PRAME family member 17-like [Source:NCBI gene;Acc:100427847]
ENSMMUG00000012396 zinc finger and SCAN domain containing 23 [Source:VGNC Symbol;Acc:VGNC:79313]
ENSMMUG00000008733 ubiquitin protein ligase E3C [Source:VGNC Symbol;Acc:VGNC:79049]
ENSMMUG00000002517 protein tyrosine phosphatase domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76567]
ENSMMUG00000002244 early endosome antigen 1 [Source:VGNC Symbol;Acc:VGNC:72161]
ENSMMUG00000004617 glutathione peroxidase 6 [Source:VGNC Symbol;Acc:VGNC:73154]
ENSMMUG00000054412
ENSMMUG00000048077 ataxin 1 like [Source:NCBI gene;Acc:709805]
ENSMMUG00000052442
ENSMMUG00000023096 obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:NCBI gene;Acc:694413]
ENSMMUG00000058133
ENSMMUG00000057475
ENSMMUG00000007421 zinc finger CCHC-type containing 7 [Source:VGNC Symbol;Acc:VGNC:82088]
ENSMMUG00000013376 POU class 2 homeobox 2 [Source:NCBI gene;Acc:706835]
ENSMMUG00000002533 progesterone immunomodulatory binding factor 1 [Source:NCBI gene;Acc:694190]
ENSMMUG00000021374 EWS RNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72446]
ENSMMUG00000053789
ENSMMUG00000027108 mml-mir-193b [Source:miRBase;Acc:MI0007656]
ENSMMUG00000003850 collagen type XI alpha 2 chain [Source:VGNC Symbol;Acc:VGNC:71290]
ENSMMUG00000023125 XPC complex subunit, DNA damage recognition and repair factor [Source:VGNC Symbol;Acc:VGNC:78809]
ENSMMUG00000001386 neurotrophic receptor tyrosine kinase 3 [Source:VGNC Symbol;Acc:VGNC:75542]
ENSMMUG00000001529 solute carrier family 25 member 26 [Source:VGNC Symbol;Acc:VGNC:77530]
ENSMMUG00000023398 collagen type XVI alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:71293]
ENSMMUG00000021372 EMI domain containing 1 [Source:VGNC Symbol;Acc:VGNC:72063]
ENSMMUG00000060600
ENSMMUG00000006268 junction adhesion molecule like [Source:VGNC Symbol;Acc:VGNC:73860]
ENSMMUG00000018073 ligand dependent nuclear receptor corepressor like [Source:NCBI gene;Acc:715285]
ENSMMUG00000019146 DNA polymerase delta interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:76099]
ENSMMUG00000059855 Smad nuclear interacting protein 1 [Source:NCBI gene;Acc:713733]
ENSMMUG00000000443 arylsulfatase F [Source:VGNC Symbol;Acc:VGNC:81362]
ENSMMUG00000014727 NSF attachment protein alpha [Source:VGNC Symbol;Acc:VGNC:75131]
ENSMMUG00000021308 chromosome 9 C10orf71 homolog [Source:NCBI gene;Acc:710332]
ENSMMUG00000049295 GTPase, IMAP family member 5 [Source:NCBI gene;Acc:713835]
ENSMMUG00000022791 heat shock transcription factor 2 binding protein [Source:VGNC Symbol;Acc:VGNC:73532]
ENSMMUG00000018285 cysteine rich with EGF like domains 1 [Source:VGNC Symbol;Acc:VGNC:71407]
ENSMMUG00000021171 apolipoprotein B mRNA editing enzyme catalytic subunit 2 [Source:VGNC Symbol;Acc:VGNC:69986]
ENSMMUG00000040803 sarcalumenin [Source:NCBI gene;Acc:704655]
ENSMMUG00000015166 NIMA related kinase 9 [Source:VGNC Symbol;Acc:VGNC:75209]
ENSMMUG00000011675 zinc finger and SCAN domain containing 12 [Source:VGNC Symbol;Acc:VGNC:78910]
ENSMMUG00000056280 G protein subunit alpha i2 [Source:NCBI gene;Acc:703780]
ENSMMUG00000064975 zinc finger protein 221 [Source:NCBI gene;Acc:100423743]
ENSMMUG00000014824 SIX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:10889]
ENSMMUG00000017886 F-box protein 10 [Source:NCBI gene;Acc:718443]
ENSMMUG00000005048 MAM domain containing 4 [Source:VGNC Symbol;Acc:VGNC:74345]
ENSMMUG00000017008 GTPase, IMAP family member 2 [Source:VGNC Symbol;Acc:VGNC:72980]
ENSMMUG00000001531 leucine rich repeats and immunoglobulin like domains 1 [Source:VGNC Symbol;Acc:VGNC:84156]
ENSMMUG00000012122 protein phosphatase 1 regulatory inhibitor subunit 11 [Source:VGNC Symbol;Acc:VGNC:82209]
ENSMMUG00000063659
ENSMMUG00000029263 polycystin 1, transient receptor potential channel interacting [Source:NCBI gene;Acc:694905]
ENSMMUG00000049968 RNA polymerase mitochondrial [Source:NCBI gene;Acc:100426183]

ENSMMUG00000022548 phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 alpha [Source:VGNC Symbol;Acc:VGNC:75992]
 ENSMMUG00000032244 DnaJ heat shock protein family (Hsp40) member C16 [Source:NCBI gene;Acc:700894]
 ENSMMUG00000013055 malic enzyme 3 [Source:VGNC Symbol;Acc:VGNC:74695]
 ENSMMUG00000003483 cyclin dependent kinase 2 interacting protein [Source:VGNC Symbol;Acc:VGNC:71326]
 ENSMMUG00000047162 fibroblast growth factor 10 [Source:VGNC Symbol;Acc:VGNC:84378]
 ENSMMUG00000012463 DEAD-box helicase 46 [Source:VGNC Symbol;Acc:VGNC:71663]
 ENSMMUG00000059663
 ENSMMUG00000019250 solute carrier family 25 member 27 [Source:VGNC Symbol;Acc:VGNC:77543]
 ENSMMUG00000011575 coiled-coil domain containing 167 [Source:VGNC Symbol;Acc:VGNC:70833]
 ENSMMUG00000051743 TLC domain containing 1 [Source:NCBI gene;Acc:710391]
 ENSMMUG00000054689
 ENSMMUG00000021388 circadian associated repressor of transcription [Source:VGNC Symbol;Acc:VGNC:71345]
 ENSMMUG00000014438 piwi like RNA-mediated gene silencing 2 [Source:VGNC Symbol;Acc:VGNC:81502]
 ENSMMUG00000059617
 ENSMMUG00000006703 solute carrier family 10 member 4 [Source:VGNC Symbol;Acc:VGNC:77553]
 ENSMMUG00000019672 autophagy related 13 [Source:VGNC Symbol;Acc:VGNC:70148]
 ENSMMUG00000053235
 ENSMMUG00000008119 telomere maintenance 2 [Source:NCBI gene;Acc:701679]
 ENSMMUG00000019254 phospholipase A2 group VII [Source:VGNC Symbol;Acc:VGNC:76158]
 ENSMMUG00000008004 transmembrane immune signaling adaptor TYROBP [Source:NCBI gene;Acc:574207]
 ENSMMUG00000061305
 ENSMMUG00000021373 rhomboid domain containing 3 [Source:NCBI gene;Acc:714479]
 ENSMMUG00000020418 diacylglycerol kinase beta [Source:VGNC Symbol;Acc:VGNC:71782]
 ENSMMUG00000052435 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000003120 HECT domain E3 ubiquitin protein ligase 1 [Source:VGNC Symbol;Acc:VGNC:73200]
 ENSMMUG00000020004 Ras association domain family member 2 [Source:VGNC Symbol;Acc:VGNC:76674]
 ENSMMUG00000063267 aldo-keto reductase family 1 member C15 [Source:NCBI gene;Acc:722496]
 ENSMMUG00000055889
 ENSMMUG00000009669 cutaneous T cell lymphoma-associated antigen 1 [Source:NCBI gene;Acc:106994443]
 ENSMMUG00000006755 tubulin tyrosine ligase like 4 [Source:VGNC Symbol;Acc:VGNC:79758]
 ENSMMUG00000051385
 ENSMMUG00000063312
 ENSMMUG00000022647 cell division cycle 73 [Source:VGNC Symbol;Acc:VGNC:70766]
 ENSMMUG00000012961 mindbomb E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:74627]
 ENSMMUG00000053778
 ENSMMUG00000016354 IQ motif containing N [Source:VGNC Symbol;Acc:VGNC:73683]
 ENSMMUG00000000962 H2A.Z variant histone 2 [Source:VGNC Symbol;Acc:VGNC:81324]
 ENSMMUG00000004954 apoptosis inducing factor mitochondria associated 1 [Source:VGNC Symbol;Acc:VGNC:69820]
 ENSMMUG00000021760 zinc finger protein 79 [Source:NCBI gene;Acc:700961]
 ENSMMUG00000063972
 ENSMMUG00000057768
 ENSMMUG00000060541
 ENSMMUG00000048805
 ENSMMUG00000060822
 ENSMMUG00000033102 mml-mir-181b-2 [Source:miRBase;Acc:MI0007646]
 ENSMMUG00000031224 casein kinase 2 alpha 1 [Source:NCBI gene;Acc:714841]
 ENSMMUG00000019252 tudor domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79319]
 14 ENSMMUG00000015202
 ENSMMUG00000020804 transmembrane protein 132B [Source:NCBI gene;Acc:707118]
 ENSMMUG00000005463 bromodomain containing 3 [Source:VGNC Symbol;Acc:VGNC:70281]
 ENSMMUG00000053675

		ENSMMUG00000063298	
		ENSMMUG00000047542	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]
		ENSMMUG00000002638	WD repeat domain 18 [Source:VGNC Symbol;Acc:VGNC:79103]
		ENSMMUG00000003726	protein tyrosine phosphatase non-receptor type 13 [Source:VGNC Symbol;Acc:VGNC:76599]
		ENSMMUG00000013513	sex hormone binding globulin [Source:VGNC Symbol;Acc:VGNC:77208]
		ENSMMUG00000038447	
		ENSMMUG00000050065	
		ENSMMUG00000047324	casein alpha s1 [Source:HGNC Symbol;Acc:HGNC:2445]
		ENSMMUG00000006547	ATPase H+ transporting V0 subunit a4 [Source:VGNC Symbol;Acc:VGNC:70189]
		ENSMMUG00000017819	putative homeodomain transcription factor 1 [Source:VGNC Symbol;Acc:VGNC:75982]
NS_D2 S_D1	9	ENSMMUG00000017114	pleckstrin homology domain containing A6 [Source:VGNC Symbol;Acc:VGNC:76040]
		ENSMMUG00000051107	
		ENSMMUG00000012238	polypeptide N-acetylgalactosaminyltransferase 11 [Source:VGNC Symbol;Acc:VGNC:72749]
		ENSMMUG00000013138	Rho guanine nucleotide exchange factor 7 [Source:VGNC Symbol;Acc:VGNC:69833]
		ENSMMUG00000021409	developmentally regulated GTP binding protein 2 [Source:VGNC Symbol;Acc:VGNC:71993]
		ENSMMUG00000005170	unc-45 myosin chaperone B [Source:VGNC Symbol;Acc:VGNC:78954]
		ENSMMUG00000005200	PC-esterase domain containing 1A [Source:VGNC Symbol;Acc:VGNC:75622]
		ENSMMUG00000040817	interferon regulatory factor 9 [Source:VGNC Symbol;Acc:VGNC:84361]
		ENSMMUG00000054213	parathyroid hormone [Source:NCBI gene;Acc:700195]
S_D1 S_D3	11	ENSMMUG00000003316	mannosidase alpha class 2A member 1 [Source:VGNC Symbol;Acc:VGNC:81449]
		ENSMMUG00000003043	PWWP domain containing 3A, DNA repair factor [Source:VGNC Symbol;Acc:VGNC:76565]
		ENSMMUG00000008946	chromosome 19 C19orf47 homolog [Source:VGNC Symbol;Acc:VGNC:70404]
		ENSMMUG00000017972	zinc finger protein 200 [Source:VGNC Symbol;Acc:VGNC:78867]
		ENSMMUG00000046237	4-aminobutyrate aminotransferase [Source:NCBI gene;Acc:714017]
		ENSMMUG00000000065	coiled-coil domain containing 181 [Source:VGNC Symbol;Acc:VGNC:70884]
		ENSMMUG00000062623	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
		ENSMMUG00000021216	UDP glucuronosyltransferase 1 family, polypeptide A1 [Source:NCBI gene;Acc:574210]
		ENSMMUG00000009006	round spermatid basic protein 1 like [Source:VGNC Symbol;Acc:VGNC:77097]
		ENSMMUG00000004711	transmembrane protein 74B [Source:VGNC Symbol;Acc:VGNC:78990]
		ENSMMUG00000013601	chromosome 14 C11orf54 homolog [Source:NCBI gene;Acc:696483]
NS_D3 S_D1	2	ENSMMUG00000009319	transmembrane protein 161B [Source:VGNC Symbol;Acc:VGNC:84508]
		ENSMMUG00000060940	acidic residue methyltransferase 1 [Source:NCBI gene;Acc:704570]
NS_D1 S_D2	3	ENSMMUG00000022562	interleukin 1 receptor accessory protein [Source:VGNC Symbol;Acc:VGNC:73718]
		ENSMMUG00000015167	DIS3 like 3'-5' exoribonuclease 2 [Source:VGNC Symbol;Acc:VGNC:71793]
		ENSMMUG00000005028	phosphodiesterase 4C [Source:NCBI gene;Acc:720171]
NS_D1 NS_D2	72	ENSMMUG00000021788	immunoglobulin superfamily DCC subclass member 4 [Source:VGNC Symbol;Acc:VGNC:73388]
		ENSMMUG00000051366	
		ENSMMUG00000018461	notch receptor 4 [Source:VGNC Symbol;Acc:VGNC:75372]
		ENSMMUG00000017076	tubulin gamma complex associated protein 4 [Source:VGNC Symbol;Acc:VGNC:79045]
		ENSMMUG00000021370	kringle containing transmembrane protein 1 [Source:VGNC Symbol;Acc:VGNC:74066]
		ENSMMUG00000004493	propionyl-CoA carboxylase subunit alpha [Source:VGNC Symbol;Acc:VGNC:75773]
		ENSMMUG00000058459	
		ENSMMUG00000022124	stonin 2 [Source:VGNC Symbol;Acc:VGNC:78249]
		ENSMMUG00000063586	zinc finger protein 536 [Source:NCBI gene;Acc:713142]
		ENSMMUG00000061687	
		ENSMMUG00000021083	Josephin domain containing 1 [Source:VGNC Symbol;Acc:VGNC:73920]
		ENSMMUG00000059518	
		ENSMMUG00000019713	thyroid stimulating hormone receptor [Source:VGNC Symbol;Acc:VGNC:78662]
		ENSMMUG00000018456	PBX homeobox 2 [Source:VGNC Symbol;Acc:VGNC:75771]
		ENSMMUG00000021097	sushi domain containing 1 [Source:VGNC Symbol;Acc:VGNC:78207]
		ENSMMUG00000020913	scavenger receptor class B member 2 [Source:VGNC Symbol;Acc:VGNC:77026]

ENSMMUG00000051088
ENSMMUG00000018079 transmembrane serine protease 3 [Source:VGNC Symbol;Acc:VGNC:78576]
ENSMMUG00000003872 ral guanine nucleotide dissociation stimulator like 2 [Source:VGNC Symbol;Acc:VGNC:76886]
ENSMMUG00000016665 NADH:ubiquinone oxidoreductase subunit A11 [Source:NCBI gene;Acc:697843]
ENSMMUG00000007742 potassium voltage-gated channel subfamily Q member 1 [Source:VGNC Symbol;Acc:VGNC:82168]
ENSMMUG00000005754 lysyl-tRNA synthetase 1 [Source:NCBI gene;Acc:714516]
ENSMMUG00000023462 immunoglobulin like domain containing receptor 2 [Source:VGNC Symbol;Acc:VGNC:73619]
ENSMMUG00000059128
ENSMMUG00000009775 caveolae associated protein 4 [Source:NCBI gene;Acc:714379]
ENSMMUG00000038768 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000003369 calcium/calmodulin dependent protein kinase IG [Source:VGNC Symbol;Acc:VGNC:70521]
ENSMMUG00000018943 spermatogenesis associated 18 [Source:VGNC Symbol;Acc:VGNC:78013]
ENSMMUG00000015132 galectin 8 [Source:VGNC Symbol;Acc:VGNC:74258]
ENSMMUG00000051296 paired like homeobox 2B [Source:NCBI gene;Acc:701940]
ENSMMUG00000054078 histone H3 [Source:NCBI gene;Acc:114669830]
ENSMMUG00000060971
ENSMMUG00000003869 WD repeat domain 46 [Source:VGNC Symbol;Acc:VGNC:78940]
ENSMMUG00000008447 fibulin 5 [Source:VGNC Symbol;Acc:VGNC:72622]
ENSMMUG00000004760 CDK5 regulatory subunit associated protein 3 [Source:VGNC Symbol;Acc:VGNC:71015]
ENSMMUG00000009839 galactokinase 2 [Source:VGNC Symbol;Acc:VGNC:72870]
ENSMMUG00000000364 translocase of outer mitochondrial membrane 22 [Source:NCBI gene;Acc:701286]
ENSMMUG00000003238 pregnancy zone protein [Source:NCBI gene;Acc:100430319]
ENSMMUG00000063747
ENSMMUG00000064075 ring finger protein 41 [Source:NCBI gene;Acc:711969]
ENSMMUG00000019992 growth factor receptor bound protein 10 [Source:VGNC Symbol;Acc:VGNC:73157]
ENSMMUG00000060781 G protein-coupled receptor 18 [Source:NCBI gene;Acc:698714]
ENSMMUG00000064596 ATPase family AAA domain-containing protein 3A-like [Source:NCBI gene;Acc:114674454]
ENSMMUG00000002231 transmembrane protein 87B [Source:VGNC Symbol;Acc:VGNC:79557]
ENSMMUG00000038569 5',3'-nucleotidase, mitochondrial [Source:NCBI gene;Acc:698591]
ENSMMUG00000002912 TLE family member 6, subcortical maternal complex member [Source:VGNC Symbol;Acc:VGNC:79879]
ENSMMUG00000065307
ENSMMUG00000005366 alpha-L-fucosidase 2 [Source:VGNC Symbol;Acc:VGNC:72827]
ENSMMUG00000011712 olfactory receptor 5B21 [Source:NCBI gene;Acc:702145]
ENSMMUG00000031121 solute carrier family 25 member 18 [Source:VGNC Symbol;Acc:VGNC:77434]
ENSMMUG00000020202 melanoma-associated antigen D4 [Source:NCBI gene;Acc:106996411]
ENSMMUG00000061278
ENSMMUG00000044729 transcription factor AP-4 [Source:NCBI gene;Acc:707513]
ENSMMUG00000055161
ENSMMUG00000007751 solute carrier family 22 member 18 [Source:NCBI gene;Acc:721230]
ENSMMUG00000051446
ENSMMUG00000006493 ras related dexamethasone induced 1 [Source:VGNC Symbol;Acc:VGNC:76485]
ENSMMUG00000000262 beta-ureidopropionase 1 [Source:VGNC Symbol;Acc:VGNC:79029]
ENSMMUG00000052537
ENSMMUG00000055560
ENSMMUG00000041301 TNF superfamily member 8 [Source:NCBI gene;Acc:702944]
ENSMMUG00000020117 semaphorin 3B [Source:VGNC Symbol;Acc:VGNC:77160]
ENSMMUG00000001849 interleukin 5 receptor subunit alpha [Source:VGNC Symbol;Acc:VGNC:73731]
ENSMMUG00000022627 HLF transcription factor, PAR bZIP family member [Source:VGNC Symbol;Acc:VGNC:73478]
ENSMMUG00000015189 RAD51 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:76497]
ENSMMUG00000021291 thymine DNA glycosylase [Source:VGNC Symbol;Acc:VGNC:78297]
ENSMMUG00000060893

	ENSMMUG00000061096	tubulin polymerization promoting protein [Source:NCBI gene;Acc:708834]
	ENSMMUG00000050858	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMMUG00000021932	Rho GTPase activating protein 27 [Source:VGNC Symbol;Acc:VGNC:69935]
	ENSMMUG00000062818	regenerating islet-derived protein 3-alpha [Source:NCBI gene;Acc:716890]
	ENSMMUG00000058233	C-C motif chemokine 3-like [Source:NCBI gene;Acc:100426537]
NS_D1 S_D3	12	ENSMMUG00000018282 interleukin 17 receptor C [Source:VGNC Symbol;Acc:VGNC:84164]
	ENSMMUG00000008396	methyalmalonyl-CoA epimerase [Source:NCBI gene;Acc:704094]
	ENSMMUG00000010978	S100 calcium binding protein A2 [Source:VGNC Symbol;Acc:VGNC:76956]
	ENSMMUG00000007310	solute carrier family 25 member 12 [Source:VGNC Symbol;Acc:VGNC:77430]
	ENSMMUG00000043504	
	ENSMMUG00000065301	
	ENSMMUG00000023811	boule homolog, RNA binding protein [Source:VGNC Symbol;Acc:VGNC:70310]
	ENSMMUG00000003051	COPI coat complex subunit beta 2 [Source:VGNC Symbol;Acc:VGNC:71313]
	ENSMMUG00000020049	phosphoglucomutase 1 [Source:NCBI gene;Acc:699401]
	ENSMMUG00000065128	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMMUG00000021474	zinc finger protein 45 [Source:NCBI gene;Acc:712591]
	ENSMMUG00000007565	Cbl proto-oncogene B [Source:VGNC Symbol;Acc:VGNC:70555]
NS_D1 NS_D3	58	ENSMMUG00000019262 calcium voltage-gated channel subunit alpha1 D [Source:VGNC Symbol;Acc:VGNC:70501]
	ENSMMUG00000012576	sorting nexin 6 [Source:NCBI gene;Acc:693626]
	ENSMMUG00000024966	U4 spliceosomal RNA [Source:RFAM;Acc:RF00015]
	ENSMMUG00000065257	
	ENSMMUG00000013943	glycerophosphodiester phosphodiesterase domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72787]
	ENSMMUG00000001209	arylsulfatase family member K [Source:VGNC Symbol;Acc:VGNC:84280]
	ENSMMUG00000014685	pyruvate dehydrogenase kinase 2 [Source:VGNC Symbol;Acc:VGNC:75933]
	ENSMMUG00000013008	cleavage stimulation factor subunit 2 [Source:VGNC Symbol;Acc:VGNC:71536]
	ENSMMUG00000020731	terminal nucleotidyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:79637]
	ENSMMUG00000008212	tenomodulin [Source:VGNC Symbol;Acc:VGNC:79087]
	ENSMMUG00000014049	collagen type VI alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:71303]
	ENSMMUG00000059080	
	ENSMMUG00000018625	NIPA like domain containing 1 [Source:NCBI gene;Acc:704998]
	ENSMMUG00000002166	tousled like kinase 2 [Source:VGNC Symbol;Acc:VGNC:78368]
	ENSMMUG00000004598	bisphosphoglycerate mutase [Source:VGNC Symbol;Acc:VGNC:70275]
	ENSMMUG00000060894	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMMUG00000022163	solute carrier family 1 member 5 [Source:VGNC Symbol;Acc:VGNC:77413]
	ENSMMUG00000009694	solute carrier family 9 member A9 [Source:VGNC Symbol;Acc:VGNC:77747]
	ENSMMUG00000040506	H2B clustered histone 18 [Source:HGNC Symbol;Acc:HGNC:24700]
	ENSMMUG00000050630	
	ENSMMUG00000064721	
	ENSMMUG00000010049	NOP9 nucleolar protein [Source:VGNC Symbol;Acc:VGNC:75216]
	ENSMMUG00000009001	transmembrane 131 like [Source:VGNC Symbol;Acc:VGNC:79781]
	ENSMMUG00000004205	phospholipase B domain containing 2 [Source:VGNC Symbol;Acc:VGNC:76122]
	ENSMMUG00000055529	sulfotransferase family 1C member 4 [Source:NCBI gene;Acc:693903]
	ENSMMUG00000018356	flagellum associated containing coiled-coil domains 1 [Source:VGNC Symbol;Acc:VGNC:72508]
	ENSMMUG00000047741	Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
	ENSMMUG00000013940	kinesin family member 4A [Source:NCBI gene;Acc:695574]
	ENSMMUG00000000496	zinc finger and BTB domain containing 6 [Source:VGNC Symbol;Acc:VGNC:79047]
	ENSMMUG00000021078	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:70176]
	ENSMMUG00000012290	GLIPR1 like 2 [Source:VGNC Symbol;Acc:VGNC:81413]
	ENSMMUG00000002182	phosphatidylserine decarboxylase [Source:VGNC Symbol;Acc:VGNC:76005]
	ENSMMUG00000022879	EARP complex and GARP complex interacting protein 1 [Source:NCBI gene;Acc:707650]
	ENSMMUG00000010879	NAD kinase [Source:VGNC Symbol;Acc:VGNC:75047]

ENSMMUG00000011269 CF transmembrane conductance regulator [Source:VGNC Symbol;Acc:VGNC:71020]
 ENSMMUG00000008214 nuclear export mediator factor [Source:VGNC Symbol;Acc:VGNC:84407]
 ENSMMUG00000010405 family with sequence similarity 171 member B [Source:VGNC Symbol;Acc:VGNC:72404]
 ENSMMUG00000019371 major histocompatibility complex, class II, DP alpha [Source:NCBI gene;Acc:717992]
 ENSMMUG00000054615
 ENSMMUG00000000288 C-C motif chemokine ligand 2 [Source:VGNC Symbol;Acc:VGNC:70698]
 ENSMMUG00000060359
 ENSMMUG00000057763
 ENSMMUG00000050300
 ENSMMUG00000020847 CKLF like MARVEL transmembrane domain containing 3 [Source:VGNC Symbol;Acc:VGNC:71215]
 ENSMMUG00000010959 kelch like family member 9 [Source:VGNC Symbol;Acc:VGNC:74080]
 ENSMMUG00000060319 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000033290 mml-mir-643 [Source:miRBase;Acc:MI0007886]
 ENSMMUG00000060665
 ENSMMUG00000003712 zinc finger protein 615 [Source:VGNC Symbol;Acc:VGNC:79454]
 ENSMMUG00000065232
 ENSMMUG00000006857 epididymal sperm binding protein 1 [Source:VGNC Symbol;Acc:VGNC:72046]
 ENSMMUG00000012449 synaptotagmin like 2 [Source:VGNC Symbol;Acc:VGNC:78123]
 ENSMMUG00000006128 peptidase D [Source:VGNC Symbol;Acc:VGNC:82205]
 ENSMMUG00000004412 arginine and serine rich coiled-coil 2 [Source:VGNC Symbol;Acc:VGNC:77139]
 ENSMMUG00000049523 ankyrin repeat domain 12 [Source:NCBI gene;Acc:114673693]
 ENSMMUG00000011986 chibby family member 2 [Source:VGNC Symbol;Acc:VGNC:78029]
 ENSMMUG00000016581 methyltransferase like 18 [Source:VGNC Symbol;Acc:VGNC:74606]
 ENSMMUG00000004153 ATM serine/threonine kinase [Source:VGNC Symbol;Acc:VGNC:70173]
 ENSMMUG00000040958 3 lysozyme-like protein 1 [Source:NCBI gene;Acc:698176]
 ENSMMUG00000064514 keratin, type II cuticular Hb1 [Source:NCBI gene;Acc:697511]
 ENSMMUG00000012587 zinc finger protein 69 [Source:NCBI gene;Acc:717030]
 ENSMMUG00000021332 3 carboxypeptidase X, M14 family member 1 [Source:VGNC Symbol;Acc:VGNC:71413]
 ENSMMUG00000017276 nucleolar protein 4 [Source:VGNC Symbol;Acc:VGNC:75366]
 ENSMMUG00000058740
 NS_D2 S_D2 1 ENSMMUG00000022982 IQ motif containing GTPase activating protein 2 [Source:VGNC Symbol;Acc:VGNC:73756]
 NS_D2 S_D3 2 ENSMMUG00000021782 LDL receptor related protein 1 [Source:VGNC Symbol;Acc:VGNC:74442]
 ENSMMUG00000046901 protein tyrosine phosphatase 4A2 [Source:NCBI gene;Acc:706489]
 NS_D2 NS_D3 57 ENSMMUG00000024125 small nucleolar RNA, H/ACA box 58 [Source:HGNC Symbol;Acc:HGNC:32652]
 ENSMMUG00000023289 phospholipase D1 [Source:VGNC Symbol;Acc:VGNC:76171]
 ENSMMUG00000020905 chromosome 18 C18orf63 homolog [Source:VGNC Symbol;Acc:VGNC:70465]
 ENSMMUG00000019978 HERV-H LTR-associating 2 [Source:VGNC Symbol;Acc:VGNC:73377]
 ENSMMUG00000057338
 ENSMMUG00000011049 leucine rich repeat containing 1 [Source:VGNC Symbol;Acc:VGNC:81087]
 ENSMMUG00000021244 kelch like family member 40 [Source:VGNC Symbol;Acc:VGNC:74165]
 ENSMMUG00000006827 von Willebrand factor A domain containing 7 [Source:VGNC Symbol;Acc:VGNC:78941]
 ENSMMUG00000003302 dystrobrevin alpha [Source:VGNC Symbol;Acc:VGNC:72007]
 ENSMMUG00000058974
 ENSMMUG00000012615 pecanex 2 [Source:NCBI gene;Acc:712828]
 ENSMMUG00000021837 seryl-tRNA synthetase 1 [Source:NCBI gene;Acc:695046]
 ENSMMUG00000013345 folliculin [Source:NCBI gene;Acc:698082]
 ENSMMUG00000061774 taste 2 receptor member 10 [Source:NCBI gene;Acc:717960]
 ENSMMUG00000050952
 ENSMMUG00000003946 ADP-ribosyltransferase 5 [Source:VGNC Symbol;Acc:VGNC:69890]
 ENSMMUG00000013920 triggering receptor expressed on myeloid cells 2 [Source:VGNC Symbol;Acc:VGNC:79089]
 ENSMMUG00000053657

ENSMMUG0000004215 LRAT domain containing 1 [Source:VGNC Symbol;Acc:VGNC:74321]
ENSMMUG0000003693 DIS3 like exosome 3'-5' exoribonuclease [Source:VGNC Symbol;Acc:VGNC:71796]
ENSMMUG0000005913 activating transcription factor 7 interacting protein 2 [Source:VGNC Symbol;Acc:VGNC:70103]
ENSMMUG00000031000 Rho GTPase activating protein 8 [Source:NCBI gene;Acc:716745]
ENSMMUG00000051001
ENSMMUG00000017932 acyl-CoA synthetase short chain family member 2 [Source:VGNC Symbol;Acc:VGNC:69410]
ENSMMUG00000059824
ENSMMUG00000014672 mitogen-activated protein kinase kinase kinase 20 [Source:NCBI gene;Acc:698274]
ENSMMUG00000043001 milk fat globule EGF and factor V/VIII domain containing [Source:NCBI gene;Acc:703501]
ENSMMUG00000022865 junctophilin 2 [Source:NCBI gene;Acc:694158]
ENSMMUG00000056662
ENSMMUG00000049194
ENSMMUG00000021242 natural killer cell triggering receptor [Source:VGNC Symbol;Acc:VGNC:81486]
ENSMMUG00000063354
ENSMMUG00000057199
ENSMMUG00000065131
ENSMMUG0000005295 parathyroid hormone 2 receptor [Source:VGNC Symbol;Acc:VGNC:76592]
ENSMMUG00000021095 desmoglein 2 [Source:VGNC Symbol;Acc:VGNC:72002]
ENSMMUG00000064216
ENSMMUG00000011555 interleukin 16 [Source:VGNC Symbol;Acc:VGNC:84355]
ENSMMUG00000056056
ENSMMUG00000021656 golgin subfamily A member 8S [Source:NCBI gene;Acc:722977]
ENSMMUG0000004974 tripartite motif containing 21 [Source:VGNC Symbol;Acc:VGNC:78556]
ENSMMUG00000022324 formimidoyltransferase cyclodeaminase [Source:VGNC Symbol;Acc:VGNC:72825]
ENSMMUG00000039300
ENSMMUG00000051162
ENSMMUG00000022963 solute carrier family 25 member 38 [Source:VGNC Symbol;Acc:VGNC:77571]
ENSMMUG00000021197 TBC1 domain family member 4 [Source:VGNC Symbol;Acc:VGNC:78166]
ENSMMUG00000049842
ENSMMUG00000056369 SAP30 like [Source:NCBI gene;Acc:714400]
ENSMMUG00000006197 plasminogen receptor with a C-terminal lysine [Source:VGNC Symbol;Acc:VGNC:76098]
ENSMMUG00000013643 zinc finger CCHC-type containing 8 [Source:VGNC Symbol;Acc:VGNC:79487]
ENSMMUG00000020792 Rap guanine nucleotide exchange factor 4 [Source:VGNC Symbol;Acc:VGNC:76490]
ENSMMUG00000015634 centromere protein F [Source:VGNC Symbol;Acc:VGNC:71009]
ENSMMUG00000061796
ENSMMUG00000015380 proline and serine rich coiled-coil 1 [Source:VGNC Symbol;Acc:VGNC:76307]
ENSMMUG00000049682 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000026432 small nucleolar RNA, C/D box 7 [Source:HGNC Symbol;Acc:HGNC:32704]
ENSMMUG00000043229 carbohydrate sulfotransferase 14 [Source:NCBI gene;Acc:703115]
44 ENSMMUG00000018685 chromodomain helicase DNA binding protein 4 [Source:VGNC Symbol;Acc:VGNC:71029]
ENSMMUG00000054417
ENSMMUG00000020821 testis expressed 15, meiosis and synapsis associated [Source:VGNC Symbol;Acc:VGNC:78318]
ENSMMUG00000000413 solute carrier family 7 member 7 [Source:VGNC Symbol;Acc:VGNC:77631]
ENSMMUG00000021572 solute carrier family 39 member 9 [Source:VGNC Symbol;Acc:VGNC:77523]
ENSMMUG00000059353 phosphatidylserine synthase 2 [Source:NCBI gene;Acc:698582]
ENSMMUG00000061536
ENSMMUG00000019265 zinc finger protein 575 [Source:VGNC Symbol;Acc:VGNC:79667]
ENSMMUG00000015590 siah E3 ubiquitin protein ligase 2 [Source:VGNC Symbol;Acc:VGNC:77215]
ENSMMUG00000023803 myosin heavy chain 10 [Source:NCBI gene;Acc:721979]
ENSMMUG00000017703 collagen type XXV alpha 1 chain [Source:VGNC Symbol;Acc:VGNC:81374]
ENSMMUG00000049661 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]

ENSMMUG00000017259 DnaJ heat shock protein family (Hsp40) member C6 [Source:NCBI gene;Acc:698682]
 ENSMMUG00000010858 prolyl 4-hydroxylase subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:75742]
 ENSMMUG00000064089
 ENSMMUG00000017351 stabilin 1 [Source:VGNC Symbol;Acc:VGNC:77956]
 ENSMMUG00000011593 regulator of cell cycle [Source:VGNC Symbol;Acc:VGNC:76783]
 ENSMMUG00000051966
 ENSMMUG00000018415 Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]
 ENSMMUG00000030453 NLR family pyrin domain containing 1 [Source:NCBI gene;Acc:721648]
 ENSMMUG00000010312 shroom family member 1 [Source:VGNC Symbol;Acc:VGNC:77299]
 ENSMMUG00000013812 ubiquitin specific peptidase 44 [Source:VGNC Symbol;Acc:VGNC:79221]
 ENSMMUG00000006713 cyclin Y [Source:VGNC Symbol;Acc:VGNC:70840]
 ENSMMUG00000051042
 ENSMMUG00000064158
 ENSMMUG00000003282 phosphodiesterase 6B [Source:VGNC Symbol;Acc:VGNC:75920]
 ENSMMUG00000020784 centrosomal protein 126 [Source:NCBI gene;Acc:701911]
 ENSMMUG00000012156 zinc finger CCHC-type containing 17 [Source:VGNC Symbol;Acc:VGNC:79840]
 ENSMMUG00000018901 FYVE, RhoGEF and PH domain containing 6 [Source:VGNC Symbol;Acc:VGNC:72548]
 ENSMMUG00000021496 potassium sodium-activated channel subfamily T member 1 [Source:VGNC Symbol;Acc:VGNC:73856]
 ENSMMUG00000042707 angiotensin II type 1 receptor-like 6 [Source:NCBI gene;Acc:106994633]
 ENSMMUG00000010601 solute carrier family 43 member 3 [Source:NCBI gene;Acc:706267]
 ENSMMUG00000050458
 ENSMMUG00000048302 ArfGAP with FG repeats 2 [Source:VGNC Symbol;Acc:VGNC:80329]
 ENSMMUG00000020992 calcineurin binding protein 1 [Source:NCBI gene;Acc:700566]
 ENSMMUG00000012203 aryl hydrocarbon receptor [Source:NCBI gene;Acc:714254]
 ENSMMUG00000012486 retinoic acid receptor alpha [Source:VGNC Symbol;Acc:VGNC:76662]
 ENSMMUG00000021499 sterile alpha motif domain containing 3 [Source:VGNC Symbol;Acc:VGNC:77079]
 ENSMMUG00000051468 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000038288 TMEM9 domain family member B [Source:NCBI gene;Acc:708447]
 ENSMMUG00000014307 myostatin [Source:VGNC Symbol;Acc:VGNC:74870]
 ENSMMUG00000052377
 ENSMMUG00000047974 aldehyde oxidase 4 [Source:NCBI gene;Acc:701502]
 ENSMMUG00000007570 uveal autoantigen with coiled-coil domains and ankyrin repeats [Source:VGNC Symbol;Acc:VGNC:78995]
 172 ENSMMUG00000041415 alpha and gamma adaptin binding protein [Source:NCBI gene;Acc:711436]
 ENSMMUG00000052818 death associated protein like 1 [Source:NCBI gene;Acc:699071]
 ENSMMUG00000021112 epithelial splicing regulatory protein 1 [Source:VGNC Symbol;Acc:VGNC:72358]
 ENSMMUG00000023583 calcium release activated channel regulator 2A [Source:NCBI gene;Acc:709929]
 ENSMMUG00000021186 anillin actin binding protein [Source:VGNC Symbol;Acc:VGNC:69610]
 ENSMMUG00000009126 solute carrier organic anion transporter family member 2B1 [Source:VGNC Symbol;Acc:VGNC:77603]
 ENSMMUG00000000511 cysteinyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:70540]
 ENSMMUG00000000684 acyl-CoA dehydrogenase short/branched chain [Source:VGNC Symbol;Acc:VGNC:81343]
 ENSMMUG00000057655
 ENSMMUG00000058966
 ENSMMUG00000022118 regulatory factor X4 [Source:VGNC Symbol;Acc:VGNC:76909]
 ENSMMUG00000002519 serine/threonine kinase 11 interacting protein [Source:VGNC Symbol;Acc:VGNC:77963]
 ENSMMUG00000063288
 ENSMMUG00000001986 WD repeat domain 24 [Source:VGNC Symbol;Acc:VGNC:79289]
 ENSMMUG00000050991
 ENSMMUG00000002167 mannose receptor C type 2 [Source:VGNC Symbol;Acc:VGNC:74784]
 ENSMMUG00000023480 IKAROS family zinc finger 5 [Source:VGNC Symbol;Acc:VGNC:73590]
 ENSMMUG00000002009 nitrilase 1 [Source:VGNC Symbol;Acc:VGNC:75351]
 ENSMMUG00000057808

ENSMMUG00000014080 kelch like family member 8 [Source:VGNC Symbol;Acc:VGNC:74076]
ENSMMUG00000003979 WD repeat containing planar cell polarity effector [Source:VGNC Symbol;Acc:VGNC:79677]
ENSMMUG000000031856 talin 1 [Source:VGNC Symbol;Acc:VGNC:78371]
ENSMMUG00000000777 dystonin [Source:VGNC Symbol;Acc:VGNC:81061]
ENSMMUG00000001888 mahogunin ring finger 1 [Source:VGNC Symbol;Acc:VGNC:74542]
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 [Source:VGNC
Symbol;Acc:VGNC:77653]
ENSMMUG00000006531
ENSMMUG000000056257
ENSMMUG000000055678 translocase of outer mitochondrial membrane 20 like [Source:NCBI gene;Acc:700628]
ENSMMUG00000007277 GTP binding protein 1 [Source:VGNC Symbol;Acc:VGNC:73320]
ENSMMUG000000060841
ENSMMUG000000023235 SET domain bifurcated histone lysine methyltransferase 1 [Source:NCBI gene;Acc:716141]
ENSMMUG000000038935 zinc finger CCHC-type containing 3 [Source:NCBI gene;Acc:714477]
ENSMMUG000000038319 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG000000053389
ENSMMUG000000020005 solute carrier family 23 member 2 [Source:NCBI gene;Acc:717939]
ENSMMUG000000056515
ENSMMUG000000018911 protein kinase C zeta [Source:VGNC Symbol;Acc:VGNC:82212]
ENSMMUG000000064344 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG000000017437 LysM domain containing 2 [Source:NCBI gene;Acc:694916]
ENSMMUG000000051843
ENSMMUG000000023814 mitogen-activated protein kinase kinase kinase 13 [Source:VGNC Symbol;Acc:VGNC:74494]
ENSMMUG000000018468 senataxin [Source:VGNC Symbol;Acc:VGNC:77356]
ENSMMUG000000058539
ENSMMUG000000013045 coiled-coil domain containing 81 [Source:VGNC Symbol;Acc:VGNC:70868]
ENSMMUG00000006491 mediator complex subunit 9 [Source:VGNC Symbol;Acc:VGNC:74577]
ENSMMUG000000064177
ENSMMUG000000049314 dual specificity phosphatase 2 [Source:NCBI gene;Acc:718442]
ENSMMUG000000051100 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG000000016911 DEAD-box helicase 41 [Source:VGNC Symbol;Acc:VGNC:71660]
ENSMMUG000000050493 paired related homeobox 2 [Source:NCBI gene;Acc:716699]
ENSMMUG000000002802 agmatinase [Source:NCBI gene;Acc:713190]
ENSMMUG000000052440
ENSMMUG000000018791 molybdenum cofactor sulfurase [Source:VGNC Symbol;Acc:VGNC:74792]
ENSMMUG000000008486 endothelial cell adhesion molecule [Source:VGNC Symbol;Acc:VGNC:72290]
ENSMMUG000000004985 arylsulfatase L [Source:VGNC Symbol;Acc:VGNC:81361]
ENSMMUG000000022648 beta-1,3-galactosyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70205]
ENSMMUG000000020122 RAN binding protein 9 [Source:VGNC Symbol;Acc:VGNC:76475]
ENSMMUG000000040361 ATPase H+ transporting V1 subunit C1 [Source:NCBI gene;Acc:693840]
ENSMMUG000000063555
ENSMMUG000000055864
ENSMMUG000000054246
ENSMMUG000000011894 CBY1 interacting BAR domain containing 2 [Source:VGNC Symbol;Acc:VGNC:72335]
ENSMMUG000000012408 dispatched RND transporter family member 2 [Source:VGNC Symbol;Acc:VGNC:71676]
ENSMMUG000000049699 thioredoxin like 4B [Source:NCBI gene;Acc:706840]
ENSMMUG000000027053 mml-mir-194-1 [Source:miRBase;Acc:MI0003024]
ENSMMUG000000017211 peter pan homolog (Drosophila) [Source:NCBI gene;Acc:100533472]
ENSMMUG000000062198 transmembrane protein 204 [Source:NCBI gene;Acc:701926]
ENSMMUG000000010295 URB1 ribosome biogenesis homolog [Source:VGNC Symbol;Acc:VGNC:79074]
ENSMMUG000000010744
ENSMMUG000000021008 ankyrin repeat and SOCS box containing 14 [Source:VGNC Symbol;Acc:VGNC:84237]

ENSMMUG00000062110 TPD52 like 1 [Source:NCBI gene;Acc:716568]
ENSMMUG00000014451 ASXL transcriptional regulator 3 [Source:VGNC Symbol;Acc:VGNC:70152]
ENSMMUG00000063576 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000012769 limb development membrane protein 1 like [Source:VGNC Symbol;Acc:VGNC:74310]
ENSMMUG00000054168 mitotic arrest deficient 2 like 1 [Source:NCBI gene;Acc:708574]
ENSMMUG00000023138 bromodomain containing 2 [Source:VGNC Symbol;Acc:VGNC:83422]
ENSMMUG0000003231 coiled-coil domain containing 33 [Source:VGNC Symbol;Acc:VGNC:70876]
ENSMMUG00000046663 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060487 atypical chemokine receptor 3 [Source:NCBI gene;Acc:694428]
ENSMMUG00000012894 NHS actin remodeling regulator [Source:VGNC Symbol;Acc:VGNC:75348]
ENSMMUG00000014176 cytohesin 1 interacting protein [Source:VGNC Symbol;Acc:VGNC:71831]
ENSMMUG00000009226 mitogen-activated protein kinase kinase kinase 21 [Source:NCBI gene;Acc:712755]
ENSMMUG00000044417 CD6 molecule [Source:NCBI gene;Acc:695183]
ENSMMUG00000010323 zinc finger CCCH-type containing 12A [Source:VGNC Symbol;Acc:VGNC:79595]
ENSMMUG00000056553
ENSMMUG00000051008
ENSMMUG00000008419 G protein nucleolar 2 [Source:VGNC Symbol;Acc:VGNC:73037]
ENSMMUG00000014677 dynamin 2 [Source:VGNC Symbol;Acc:VGNC:71957]
ENSMMUG00000057600 V-set and immunoglobulin domain containing 2 [Source:NCBI gene;Acc:712047]
ENSMMUG00000013261 CDP-diacylglycerol synthase 2 [Source:VGNC Symbol;Acc:VGNC:70995]
ENSMMUG00000054107
ENSMMUG00000015909 TEA domain transcription factor 3 [Source:VGNC Symbol;Acc:VGNC:78303]
ENSMMUG00000018945 chloride nucleotide-sensitive channel 1A [Source:VGNC Symbol;Acc:VGNC:71261]
ENSMMUG00000008578 hyaluronan and proteoglycan link protein 4 [Source:VGNC Symbol;Acc:VGNC:73261]
ENSMMUG00000038371 JunD proto-oncogene, AP-1 transcription factor subunit [Source:NCBI gene;Acc:720182]
ENSMMUG00000022532 EPM2A interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:84184]
ENSMMUG0000005414 N-deacetylase and N-sulfotransferase 1 [Source:VGNC Symbol;Acc:VGNC:75151]
ENSMMUG00000058044
ENSMMUG00000005949 olfactory receptor 2B11 [Source:NCBI gene;Acc:709256]
ENSMMUG00000064066
ENSMMUG00000010067 MINDY lysine 48 deubiquitinase 1 [Source:VGNC Symbol;Acc:VGNC:74828]
ENSMMUG00000002561 NOP2/Sun RNA methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:75466]
ENSMMUG00000007998 HIVEP zinc finger 2 [Source:VGNC Symbol;Acc:VGNC:83427]
ENSMMUG00000011129 cilia and flagella associated protein 221 [Source:VGNC Symbol;Acc:VGNC:71153]
ENSMMUG00000052887
ENSMMUG00000019841 leucine rich pentatricopeptide repeat containing [Source:VGNC Symbol;Acc:VGNC:82177]
ENSMMUG00000005578 solute carrier family 35 member E2 [Source:VGNC Symbol;Acc:VGNC:77590]
ENSMMUG00000055071 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000059677 melanocortin 2 receptor accessory protein [Source:NCBI gene;Acc:701330]
ENSMMUG00000063228
ENSMMUG00000039085 adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1 [Source:NCBI gene;Acc:100425753]
ENSMMUG00000050979 PILR alpha associated neural protein [Source:NCBI gene;Acc:713548]
ENSMMUG00000009922 mitochondrial calcium uniporter regulator 1 [Source:VGNC Symbol;Acc:VGNC:81471]
ENSMMUG00000054357
ENSMMUG00000003123 adaptor related protein complex 4 subunit sigma 1 [Source:VGNC Symbol;Acc:VGNC:84304]
ENSMMUG00000020691 AAR2 splicing factor [Source:VGNC Symbol;Acc:VGNC:69412]
ENSMMUG00000050907
ENSMMUG00000018510 sodium voltage-gated channel alpha subunit 9 [Source:VGNC Symbol;Acc:VGNC:76990]
ENSMMUG00000004019 izumo sperm-egg fusion 1 [Source:VGNC Symbol;Acc:VGNC:73670]
ENSMMUG00000037908
ENSMMUG00000064642

ENSMMUG00000063598 leucine rich repeat containing 26 [Source:NCBI gene;Acc:706616]
ENSMMUG00000023312 haptoglobin [Source:NCBI gene;Acc:706640]
ENSMMUG00000058765
ENSMMUG00000049720
ENSMMUG00000012677 lysine demethylase 4B [Source:VGNC Symbol;Acc:VGNC:73930]
ENSMMUG00000023005 Sp9 transcription factor [Source:VGNC Symbol;Acc:VGNC:78027]
ENSMMUG00000055028
ENSMMUG00000021049 ret finger protein-like 3 [Source:NCBI gene;Acc:705507]
ENSMMUG00000023006 corepressor interacting with RBPJ, 1 [Source:VGNC Symbol;Acc:VGNC:71331]
ENSMMUG00000065019 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000051911
ENSMMUG00000063570 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000009059 Fas associated factor family member 2 [Source:VGNC Symbol;Acc:VGNC:72332]
ENSMMUG00000019267 interleukin 17 receptor B [Source:VGNC Symbol;Acc:VGNC:73618]
ENSMMUG00000006639 NGG1 interacting factor 3 like 1 [Source:VGNC Symbol;Acc:VGNC:75166]
ENSMMUG00000053150 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000001664 arylacetamide deacetylase [Source:VGNC Symbol;Acc:VGNC:81172]
ENSMMUG00000011359 eukaryotic translation initiation factor 3 subunit E [Source:VGNC Symbol;Acc:VGNC:83997]
ENSMMUG00000052091 dishevelled segment polarity protein 2 [Source:NCBI gene;Acc:714381]
ENSMMUG00000008541 BRCA2 and CDKN1A interacting protein [Source:NCBI gene;Acc:699437]
ENSMMUG00000060408
ENSMMUG00000054916 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000065091 myelin protein zero like 2 [Source:NCBI gene;Acc:699330]
ENSMMUG00000016019 PDZ binding kinase [Source:VGNC Symbol;Acc:VGNC:75643]
ENSMMUG00000012452 transglutaminase 1 [Source:NCBI gene;Acc:715854]
ENSMMUG00000008237 phosphatidylglycerophosphate synthase 1 [Source:VGNC Symbol;Acc:VGNC:75890]
ENSMMUG00000006018 sperm associated antigen 5 [Source:NCBI gene;Acc:709400]
ENSMMUG00000002821 origin recognition complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:75715]
ENSMMUG00000000546 KIAA0040 ortholog [Source:NCBI gene;Acc:100423509]
ENSMMUG00000064473 MRT4 homolog, ribosome maturation factor [Source:NCBI gene;Acc:702926]
ENSMMUG00000065058
ENSMMUG00000005761 UBX domain protein 1 [Source:VGNC Symbol;Acc:VGNC:79135]
ENSMMUG00000020813 NADH:ubiquinone oxidoreductase subunit A9 [Source:VGNC Symbol;Acc:VGNC:81480]
ENSMMUG00000062017
ENSMMUG00000062664
ENSMMUG00000057282 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000055284
ENSMMUG00000032281 zinc finger and BTB domain containing 48 [Source:VGNC Symbol;Acc:VGNC:79959]
ENSMMUG00000004579 RAD51 recombinase [Source:VGNC Symbol;Acc:VGNC:76645]
ENSMMUG00000026981 EGF like domain multiple 7 [Source:VGNC Symbol;Acc:VGNC:72079]
ENSMMUG00000047067 SERTA domain containing 2 [Source:NCBI gene;Acc:696216]
ENSMMUG00000015198 glutamate decarboxylase 1 [Source:VGNC Symbol;Acc:VGNC:72862]
ENSMMUG00000022520 kinesin light chain 2 [Source:VGNC Symbol;Acc:VGNC:73869]
ENSMMUG00000022641 ubiquitin C-terminal hydrolase L5 [Source:VGNC Symbol;Acc:VGNC:79197]
ENSMMUG00000037458 endoplasmic reticulum resident protein 29 [Source:NCBI gene;Acc:720396]
ENSMMUG00000011189 tousled like kinase 1 [Source:VGNC Symbol;Acc:VGNC:78367]
ENSMMUG00000061452
ENSMMUG00000053660 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000064752 phospholipase A2 activating protein [Source:NCBI gene;Acc:707876]
ENSMMUG00000026836 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000013049 formyl peptide receptor 1 [Source:NCBI gene;Acc:719782]

337 ENSMMUG00000022840 zonadhesin [Source:VGNC Symbol;Acc:VGNC:81797]
ENSMMUG00000010688 olfactory receptor, family 2, subfamily AT, member 4 [Source:NCBI gene;Acc:694711]
ENSMMUG00000009310 myelin transcription factor 1 like [Source:NCBI gene;Acc:706914]
ENSMMUG00000011015 matrix metalloproteinase 27 [Source:VGNC Symbol;Acc:VGNC:74749]
ENSMMUG00000021137 thioredoxin related transmembrane protein 4 [Source:VGNC Symbol;Acc:VGNC:79484]
ENSMMUG00000063609 cytochrome c oxidase subunit 6A1, mitochondrial [Source:NCBI gene;Acc:696956]
ENSMMUG00000013851 lipoic acid synthetase [Source:VGNC Symbol;Acc:VGNC:74057]
ENSMMUG00000058302
ENSMMUG00000011646 TATA-box binding protein associated factor, RNA polymerase I subunit D [Source:NCBI gene;Acc:696602]
ENSMMUG00000058170 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000009838 COP9 signalosome subunit 2 [Source:VGNC Symbol;Acc:VGNC:71376]
ENSMMUG00000039829
ENSMMUG00000009984 prodynorphin [Source:VGNC Symbol;Acc:VGNC:75937]
ENSMMUG00000060995
ENSMMUG00000010320 ATPase H+ transporting V1 subunit C2 [Source:VGNC Symbol;Acc:VGNC:70091]
ENSMMUG00000008579 defective in cullin neddylation 1 domain containing 4 [Source:VGNC Symbol;Acc:VGNC:71809]
ENSMMUG00000012601 RANBP2-type and C3HC4-type zinc finger containing 1 [Source:VGNC Symbol;Acc:VGNC:81554]
ENSMMUG00000054447 T-box transcription factor 22 [Source:NCBI gene;Acc:708338]
ENSMMUG00000054625
ENSMMUG00000007708 N-alpha-acetyltransferase 20, NatB catalytic subunit [Source:VGNC Symbol;Acc:VGNC:84533]
ENSMMUG00000054713
ENSMMUG00000019740 zinc finger DHC-type palmitoyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:79143]
ENSMMUG00000032306 zinc finger FYVE-type containing 28 [Source:NCBI gene;Acc:720600]
ENSMMUG00000022727 lysine methyltransferase 2E [Source:VGNC Symbol;Acc:VGNC:74073]
ENSMMUG00000029927 ADAM metalloproteinase domain 11 [Source:VGNC Symbol;Acc:VGNC:69466]
ENSMMUG00000056196
ENSMMUG00000003468 growth arrest and DNA damage inducible beta [Source:VGNC Symbol;Acc:VGNC:72864]
ENSMMUG00000052479
ENSMMUG00000019566 hemoglobin subunit alpha 1 [Source:NCBI gene;Acc:701930]
ENSMMUG00000054675
ENSMMUG00000015737 phosphatidylinositol glycan anchor biosynthesis class A [Source:VGNC Symbol;Acc:VGNC:75984]
ENSMMUG00000003858 retinoid X receptor beta [Source:VGNC Symbol;Acc:VGNC:76952]
ENSMMUG00000017680 chibby family member 1, beta catenin antagonist [Source:NCBI gene;Acc:100429409]
ENSMMUG00000021327 phosphatidylinositol glycan anchor biosynthesis class H [Source:VGNC Symbol;Acc:VGNC:75987]
ENSMMUG00000058242 zinc finger protein 160 [Source:NCBI gene;Acc:722722]
ENSMMUG00000054112
ENSMMUG00000011335 Fc receptor like 6 [Source:VGNC Symbol;Acc:VGNC:72602]
ENSMMUG00000014155 CLK4 associating serine/arginine rich protein [Source:VGNC Symbol;Acc:VGNC:71198]
ENSMMUG00000018657 dedicator of cytokinesis 9 [Source:VGNC Symbol;Acc:VGNC:71835]
ENSMMUG00000002514 methyltransferase like 25 [Source:VGNC Symbol;Acc:VGNC:74591]
ENSMMUG00000014535 solute carrier family 15 member 3 [Source:VGNC Symbol;Acc:VGNC:77504]
ENSMMUG00000045497 complement factor H [Source:NCBI gene;Acc:717346]
ENSMMUG00000007485 zinc finger protein 555 [Source:VGNC Symbol;Acc:VGNC:79705]
ENSMMUG00000040273 zinc finger protein 257 [Source:NCBI gene;Acc:694388]
ENSMMUG00000065273
ENSMMUG00000054290
ENSMMUG00000057852
ENSMMUG00000002911 mutL homolog 3 [Source:VGNC Symbol;Acc:VGNC:82187]
ENSMMUG00000017176 DNA cross-link repair 1C [Source:NCBI gene;Acc:697493]
ENSMMUG00000017558 discoidin, CUB and LCCL domain containing 1 [Source:VGNC Symbol;Acc:VGNC:71689]
ENSMMUG00000023119 lin-7 homolog C, crumbs cell polarity complex component [Source:VGNC Symbol;Acc:VGNC:74070]

ENSMMUG00000062339 endogenous retrovirus group K member 25 Env polyprotein-like [Source:NCBI gene;Acc:114677579]
ENSMMUG00000058450
ENSMMUG00000003053 APC regulator of WNT signaling pathway 2 [Source:VGNC Symbol;Acc:VGNC:69888]
ENSMMUG00000062638 methyltransferase like 3 [Source:NCBI gene;Acc:706852]
ENSMMUG00000006796 betaine--homocysteine S-methyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70248]
ENSMMUG00000062667 leucine rich repeat and fibronectin type III domain containing 3 [Source:NCBI gene;Acc:711565]
ENSMMUG00000060101
ENSMMUG00000003958 stromal interaction molecule 1 [Source:VGNC Symbol;Acc:VGNC:77911]
ENSMMUG00000021917 leucine rich repeat containing 7 [Source:NCBI gene;Acc:702347]
ENSMMUG00000007264 transmembrane protein 30B [Source:VGNC Symbol;Acc:VGNC:79656]
ENSMMUG00000010404 zinc finger protein 41 [Source:VGNC Symbol;Acc:VGNC:78900]
ENSMMUG00000009615 IMP U3 small nucleolar ribonucleoprotein 4 [Source:VGNC Symbol;Acc:VGNC:73689]
ENSMMUG00000006702 bone morphogenetic protein receptor type 1B [Source:VGNC Symbol;Acc:VGNC:70267]
ENSMMUG00000002318 stimulated by retinoic acid 8 [Source:VGNC Symbol;Acc:VGNC:78250]
ENSMMUG00000047370 IgLON family member 5 [Source:NCBI gene;Acc:719890]
ENSMMUG00000050676 leucine rich repeat containing 75A [Source:NCBI gene;Acc:699649]
ENSMMUG00000061396 kallikrein related peptidase 6 [Source:NCBI gene;Acc:719776]
ENSMMUG00000061688 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000003688 zinc finger protein 91 [Source:HGNC Symbol;Acc:HGNC:13166]
ENSMMUG00000062697 olfactory receptor 5B12 [Source:NCBI gene;Acc:106993236]
ENSMMUG00000001219 mitochondrial ribosomal protein L4 [Source:VGNC Symbol;Acc:VGNC:74750]
ENSMMUG00000021315 molybdenum cofactor synthesis 1 [Source:NCBI gene;Acc:719625]
ENSMMUG00000062047
ENSMMUG00000054309 PRAME family member 5 [Source:NCBI gene;Acc:722781]
ENSMMUG00000011047 S-phase cyclin A associated protein in the ER [Source:VGNC Symbol;Acc:VGNC:77006]
ENSMMUG00000016475 M-phase phosphoprotein 8 [Source:VGNC Symbol;Acc:VGNC:74864]
ENSMMUG00000011515 striatin 3 [Source:VGNC Symbol;Acc:VGNC:78127]
ENSMMUG00000006937 small nuclear ribonucleoprotein D2 polypeptide [Source:NCBI gene;Acc:715183]
ENSMMUG00000060547 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000052496
ENSMMUG00000033490 mml-mir-625 [Source:miRBase;Acc:MI0007874]
ENSMMUG00000022715 adenosylhomocysteinase like 1 [Source:VGNC Symbol;Acc:VGNC:81350]
ENSMMUG00000005888 tetratricopeptide repeat domain 13 [Source:VGNC Symbol;Acc:VGNC:79588]
ENSMMUG00000023396 hypocretin receptor 1 [Source:VGNC Symbol;Acc:VGNC:73356]
ENSMMUG00000050994
ENSMMUG00000064749
ENSMMUG00000063396
ENSMMUG00000000244 coagulation factor XIII B chain [Source:VGNC Symbol;Acc:VGNC:72463]
ENSMMUG00000017922 prostaglandin I2 receptor [Source:VGNC Symbol;Acc:VGNC:76586]
ENSMMUG00000000353 putative methyltransferase-like protein 21E pseudogene [Source:NCBI gene;Acc:707949]
ENSMMUG00000053565
ENSMMUG00000010891 lysine acetyltransferase 6A [Source:VGNC Symbol;Acc:VGNC:73821]
ENSMMUG00000018283 dihydrofolate reductase [Source:NCBI gene;Acc:711268]
ENSMMUG00000052463 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000031398 coiled-coil domain containing 173 [Source:NCBI gene;Acc:709886]
ENSMMUG00000005365 peroxisomal biogenesis factor 3 [Source:VGNC Symbol;Acc:VGNC:75951]
ENSMMUG00000058586
ENSMMUG00000059657 chromosome 5 C4orf36 homolog [Source:NCBI gene;Acc:700500]
ENSMMUG00000020592 Gse1 coiled-coil protein [Source:VGNC Symbol;Acc:VGNC:73254]
ENSMMUG00000018444 dual specificity phosphatase 23 [Source:VGNC Symbol;Acc:VGNC:71880]
ENSMMUG00000003595 peroxisomal biogenesis factor 5 like [Source:VGNC Symbol;Acc:VGNC:75889]

ENSMMUG00000064563
ENSMMUG0000006214 olfactory receptor family 11 subfamily L member 1 [Source:HGNC Symbol;Acc:HGNC:14998]
ENSMMUG00000050503
ENSMMUG00000015566 holocarboxylase synthetase [Source:VGNC Symbol;Acc:VGNC:73477]
ENSMMUG00000048710 HIC ZBTB transcriptional repressor 1 [Source:NCBI gene;Acc:721284]
ENSMMUG00000045680 iron responsive element binding protein 2 [Source:VGNC Symbol;Acc:VGNC:84360]
ENSMMUG00000013894 beta-1,4-N-acetyl-galactosaminyltransferase 3 [Source:VGNC Symbol;Acc:VGNC:70121]
ENSMMUG00000021344 interleukin 33 [Source:VGNC Symbol;Acc:VGNC:73606]
ENSMMUG00000013655 dynamin 1 like [Source:VGNC Symbol;Acc:VGNC:71956]
ENSMMUG00000011319 potassium channel tetramerization domain containing 15 [Source:VGNC Symbol;Acc:VGNC:73894]
ENSMMUG00000022983 adhesion G protein-coupled receptor F1 [Source:VGNC Symbol;Acc:VGNC:81007]
ENSMMUG00000008213 reticulocalbin 2 [Source:VGNC Symbol;Acc:VGNC:76887]
ENSMMUG00000021806 vestigial like family member 4 [Source:VGNC Symbol;Acc:VGNC:79755]
ENSMMUG00000008136 G2 and S-phase expressed 1 [Source:VGNC Symbol;Acc:VGNC:73162]
ENSMMUG00000006904 cyclin L2 [Source:NCBI gene;Acc:114669744]
ENSMMUG00000054737
ENSMMUG00000052420 transmembrane protein 132A [Source:NCBI gene;Acc:695291]
ENSMMUG00000056220 follistatin like 3 [Source:NCBI gene;Acc:721100]
ENSMMUG00000012310 CASP8 and FADD like apoptosis regulator [Source:VGNC Symbol;Acc:VGNC:71019]
ENSMMUG00000002768 neuronal regeneration related protein [Source:VGNC Symbol;Acc:VGNC:84454]
ENSMMUG00000038410
ENSMMUG00000008546 cyclin D2 [Source:NCBI gene;Acc:710379]
ENSMMUG00000042416
ENSMMUG00000017333 CD244 molecule [Source:VGNC Symbol;Acc:VGNC:70821]
ENSMMUG00000005312 glutaredoxin [Source:VGNC Symbol;Acc:VGNC:84383]
ENSMMUG00000052327
ENSMMUG00000047342 T cell receptor alpha variable 12-2 [Source:HGNC Symbol;Acc:HGNC:12106]
ENSMMUG00000044859
ENSMMUG00000000662 guanylate-binding protein 1 [Source:NCBI gene;Acc:694538]
ENSMMUG00000014343 lipase family member J [Source:VGNC Symbol;Acc:VGNC:74333]
ENSMMUG00000023488 lysine acetyltransferase 6B [Source:VGNC Symbol;Acc:VGNC:73846]
ENSMMUG00000064013
ENSMMUG00000046785
ENSMMUG00000047127
ENSMMUG00000010328 MYST/Esa1 associated factor 6 [Source:VGNC Symbol;Acc:VGNC:74580]
ENSMMUG00000004433 ATP binding cassette subfamily E member 1 [Source:VGNC Symbol;Acc:VGNC:69581]
ENSMMUG00000059153
ENSMMUG00000004559 potassium voltage-gated channel subfamily D member 1 [Source:VGNC Symbol;Acc:VGNC:73975]
ENSMMUG00000054935
ENSMMUG00000049690
ENSMMUG00000057531 mitochondrial ribosomal protein S11 [Source:NCBI gene;Acc:697743]
ENSMMUG00000005040 coiled-coil domain containing 183 [Source:NCBI gene;Acc:709019]
ENSMMUG00000030401 gem nuclear organelle associated protein 4 [Source:VGNC Symbol;Acc:VGNC:72723]
ENSMMUG00000057973
ENSMMUG00000006561 tRNA selenocysteine 1 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:79885]
ENSMMUG00000049885
ENSMMUG00000003134 ring finger protein 217 [Source:VGNC Symbol;Acc:VGNC:76801]
ENSMMUG00000023469 heat shock protein 90 beta family member 1 [Source:NCBI gene;Acc:699568]
ENSMMUG00000002709 G protein-coupled receptor class C group 5 member B [Source:VGNC Symbol;Acc:VGNC:72934]
ENSMMUG00000004560 crystallin lambda 1 [Source:VGNC Symbol;Acc:VGNC:71433]
ENSMMUG00000053231

ENSMMUG00000050186 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000055575 olfactory marker protein [Source:HGNC Symbol;Acc:HGNC:8136]
ENSMMUG00000050297
ENSMMUG00000052540
ENSMMUG00000002038 cell migration inducing hyaluronidase 1 [Source:VGNC Symbol;Acc:VGNC:71130]
ENSMMUG00000007110 serine and arginine rich splicing factor 4 [Source:NCBI gene;Acc:717401]
ENSMMUG00000022570 nuclear transcription factor Y subunit beta [Source:NCBI gene;Acc:700451]
ENSMMUG00000028863 WIZ zinc finger [Source:VGNC Symbol;Acc:VGNC:79901]
ENSMMUG00000062882
ENSMMUG00000057860 olfactory receptor 51E1 [Source:NCBI gene;Acc:717598]
ENSMMUG00000001876 phosphoinositide-3-kinase adaptor protein 1 [Source:VGNC Symbol;Acc:VGNC:75891]
ENSMMUG00000015203 golgi reassembly stacking protein 2 [Source:VGNC Symbol;Acc:VGNC:72957]
ENSMMUG00000057895
ENSMMUG00000002652 zinc finger MIZ-type containing 2 [Source:VGNC Symbol;Acc:VGNC:79350]
ENSMMUG00000015608 tudor domain containing 12 [Source:VGNC Symbol;Acc:VGNC:82254]
ENSMMUG00000016631 glutamate receptor interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:73195]
ENSMMUG00000059794
ENSMMUG00000013888 NOP56 ribonucleoprotein [Source:VGNC Symbol;Acc:VGNC:75181]
ENSMMUG00000050174
ENSMMUG00000052229
ENSMMUG00000003859 solute carrier family 39 member 7 [Source:VGNC Symbol;Acc:VGNC:77592]
ENSMMUG00000007109 dishevelled segment polarity protein 1 [Source:NCBI gene;Acc:705864]
ENSMMUG00000062264
ENSMMUG00000001404 neuronal differentiation 2 [Source:VGNC Symbol;Acc:VGNC:75321]
ENSMMUG00000018216 keratin, type II cuticular Hb5 [Source:NCBI gene;Acc:698320]
ENSMMUG00000039515 kinesin family member 13B [Source:NCBI gene;Acc:100429368]
ENSMMUG00000057228 SRY-box transcription factor 15 [Source:NCBI gene;Acc:106993880]
ENSMMUG00000016357 polycystin 2 like 2, transient receptor potential cation channel [Source:VGNC Symbol;Acc:VGNC:76009]
ENSMMUG00000008705 ubiquitin specific peptidase 53 [Source:VGNC Symbol;Acc:VGNC:79793]
ENSMMUG00000006155 zinc finger C3HC-type containing 1 [Source:VGNC Symbol;Acc:VGNC:79827]
ENSMMUG00000015987 Ras and Rab interactor 1 [Source:VGNC Symbol;Acc:VGNC:76769]
ENSMMUG00000000681 calmin [Source:VGNC Symbol;Acc:VGNC:71232]
ENSMMUG00000020148 BAG cochaperone 1 [Source:NCBI gene;Acc:702101]
ENSMMUG00000012513 lactamase beta 2 [Source:VGNC Symbol;Acc:VGNC:74072]
ENSMMUG00000039441 mab-21 like 2 [Source:NCBI gene;Acc:693948]
ENSMMUG00000060966
ENSMMUG00000013235 collagen type IV alpha 3 chain [Source:VGNC Symbol;Acc:VGNC:81375]
ENSMMUG00000010703 KIAA0895 [Source:VGNC Symbol;Acc:VGNC:73884]
ENSMMUG00000019856 olfactory receptor 2F2-like [Source:NCBI gene;Acc:100428924]
ENSMMUG00000059400
ENSMMUG00000001065 olfactory receptor, family 51, subfamily A, member 4 [Source:NCBI gene;Acc:100425539]
ENSMMUG00000022643 Ro60, Y RNA binding protein [Source:NCBI gene;Acc:715194]
ENSMMUG00000018898 nuclear receptor subfamily 2 group C member 1 [Source:VGNC Symbol;Acc:VGNC:75508]
ENSMMUG00000055885 napsin-A [Source:NCBI gene;Acc:719235]
ENSMMUG00000001642 MNAT1 component of CDK activating kinase [Source:VGNC Symbol;Acc:VGNC:74905]
ENSMMUG00000046765
ENSMMUG00000004710 protein interacting with cyclin A1 [Source:VGNC Symbol;Acc:VGNC:76336]
ENSMMUG00000003864 VPS52 subunit of GARP complex [Source:VGNC Symbol;Acc:VGNC:78551]
ENSMMUG00000053760
ENSMMUG00000041043 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000019756 NFKB inhibitor delta [Source:VGNC Symbol;Acc:VGNC:75179]

ENSMMUG00000056962
ENSMMUG00000041837 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG0000006668 tubulin alpha-3 chain [Source:NCBI gene;Acc:707215]
ENSMMUG00000013188 serine incorporator 2 [Source:VGNC Symbol;Acc:VGNC:77294]
ENSMMUG00000018165 syndecan binding protein 2 [Source:VGNC Symbol;Acc:VGNC:77017]
ENSMMUG00000018640 Dmx like 1 [Source:VGNC Symbol;Acc:VGNC:71935]
ENSMMUG00000057215
ENSMMUG00000019868 NKD inhibitor of WNT signaling pathway 1 [Source:VGNC Symbol;Acc:VGNC:75198]
ENSMMUG00000064249
ENSMMUG00000018290 ER membrane protein complex subunit 3 [Source:VGNC Symbol;Acc:VGNC:72091]
ENSMMUG00000019714 vav guanine nucleotide exchange factor 3 [Source:VGNC Symbol;Acc:VGNC:78759]
ENSMMUG0000002879 GA binding protein transcription factor subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:72845]
ENSMMUG00000051202
ENSMMUG00000049484
ENSMMUG00000055637
ENSMMUG00000020294 phosphoinositide-3-kinase regulatory subunit 4 [Source:VGNC Symbol;Acc:VGNC:84060]
ENSMMUG0000003511 chloride intracellular channel 5 [Source:VGNC Symbol;Acc:VGNC:71171]
ENSMMUG00000022293 FERM and PDZ domain containing 3 [Source:VGNC Symbol;Acc:VGNC:72805]
ENSMMUG00000018795 kynurenine aminotransferase 3 [Source:VGNC Symbol;Acc:VGNC:74177]
ENSMMUG00000015544 PWP1 homolog, endonuclein [Source:NCBI gene;Acc:705262]
ENSMMUG00000008542 DEAH-box helicase 32 (putative) [Source:NCBI gene;Acc:695919]
ENSMMUG00000064615 pancreatic and duodenal homeobox 1 [Source:NCBI gene;Acc:710936]
ENSMMUG00000014140 peroxisomal biogenesis factor 26 [Source:NCBI gene;Acc:710470]
ENSMMUG00000013031 bone morphogenetic protein 1 [Source:VGNC Symbol;Acc:VGNC:70259]
ENSMMUG00000065105
ENSMMUG00000054825
ENSMMUG00000002269 serine carboxypeptidase 1 [Source:VGNC Symbol;Acc:VGNC:82232]
ENSMMUG00000019266 choline dehydrogenase [Source:VGNC Symbol;Acc:VGNC:71086]
ENSMMUG00000004460 tyrosyl-DNA phosphodiesterase 1 [Source:VGNC Symbol;Acc:VGNC:79164]
ENSMMUG00000018777 regulation of nuclear pre-mRNA domain containing 1A [Source:VGNC Symbol;Acc:VGNC:77103]
ENSMMUG00000046520 small integral membrane protein 13 [Source:NCBI gene;Acc:703387]
ENSMMUG00000023621 DEAD-box helicase 27 [Source:NCBI gene;Acc:703852]
ENSMMUG00000009431 HEN methyltransferase 1 [Source:VGNC Symbol;Acc:VGNC:73241]
ENSMMUG00000015799 tolloid like 1 [Source:VGNC Symbol;Acc:VGNC:78369]
ENSMMUG00000013233 collagen type IV alpha 4 chain [Source:VGNC Symbol;Acc:VGNC:71299]
ENSMMUG00000053482 protocadherin 20 [Source:NCBI gene;Acc:696607]
ENSMMUG00000061036 histone cluster 2, H2ab [Source:NCBI gene;Acc:705170]
ENSMMUG00000057407 dorsal root ganglia homeobox [Source:NCBI gene;Acc:719355]
ENSMMUG00000013419 guanylate cyclase 1 soluble subunit alpha 2 [Source:VGNC Symbol;Acc:VGNC:82154]
ENSMMUG00000045966 granzyme M [Source:NCBI gene;Acc:715031]
ENSMMUG00000052815
ENSMMUG00000012091 thioredoxin reductase 1 [Source:VGNC Symbol;Acc:VGNC:78679]
ENSMMUG00000042154 ankyrin repeat domain 66 [Source:VGNC Symbol;Acc:VGNC:81024]
ENSMMUG00000062338
ENSMMUG00000001359 caprin family member 2 [Source:VGNC Symbol;Acc:VGNC:70599]
ENSMMUG00000010748 transient receptor potential cation channel subfamily A member 1 [Source:VGNC Symbol;Acc:VGNC:78429]
ENSMMUG00000021695 Morf4 family associated protein 1 [Source:NCBI gene;Acc:710771]
ENSMMUG00000002243 pleckstrin homology and RhoGEF domain containing G7 [Source:VGNC Symbol;Acc:VGNC:76149]
ENSMMUG00000002007 kelch domain containing 9 [Source:NCBI gene;Acc:719863]
ENSMMUG00000000227 myosin heavy chain 7B [Source:VGNC Symbol;Acc:VGNC:74965]
ENSMMUG00000009409 mesoderm development LRP chaperone [Source:VGNC Symbol;Acc:VGNC:74507]

ENSMMUG00000052454 prostaglandin D2 receptor 2 [Source:NCBI gene;Acc:695853]
ENSMMUG00000010171 proline-serine-threonine phosphatase interacting protein 1 [Source:VGNC Symbol;Acc:VGNC:76459]
ENSMMUG00000020954 cell division cycle 25A [Source:VGNC Symbol;Acc:VGNC:70794]
ENSMMUG00000065322 ATP synthase peripheral stalk-membrane subunit b [Source:NCBI gene;Acc:704072]
ENSMMUG00000010944 GATA binding protein 6 [Source:VGNC Symbol;Acc:VGNC:72891]
ENSMMUG00000035632 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000065060
ENSMMUG00000014213 calcium voltage-gated channel subunit alpha1 H [Source:VGNC Symbol;Acc:VGNC:70505]
ENSMMUG00000012250 lactase [Source:VGNC Symbol;Acc:VGNC:74244]
ENSMMUG00000060765
ENSMMUG00000064448
ENSMMUG00000010440 adenylate cyclase 8 [Source:VGNC Symbol;Acc:VGNC:69516]
ENSMMUG0000005466 SPOC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:77997]
ENSMMUG00000021875 myoneurin [Source:VGNC Symbol;Acc:VGNC:74958]
ENSMMUG0000004437 OTU deubiquitinase 4 [Source:VGNC Symbol;Acc:VGNC:75675]
ENSMMUG00000009394 sestrin 3 [Source:VGNC Symbol;Acc:VGNC:77291]
ENSMMUG00000058336
ENSMMUG00000057173
ENSMMUG00000016812 coiled-coil domain containing 18 [Source:VGNC Symbol;Acc:VGNC:70913]
ENSMMUG00000057986 transmembrane protein 17 [Source:NCBI gene;Acc:694384]
ENSMMUG00000024448
ENSMMUG00000052457 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000040046 lithostathine-1-alpha [Source:NCBI gene;Acc:711810]
ENSMMUG0000004432 anaphase promoting complex subunit 10 [Source:VGNC Symbol;Acc:VGNC:69682]
ENSMMUG00000018785 elongator acetyltransferase complex subunit 2 [Source:VGNC Symbol;Acc:VGNC:72069]
ENSMMUG00000059848 olfactory receptor 5B2 [Source:NCBI gene;Acc:100429465]
ENSMMUG00000026897 mml-mir-215 [Source:miRBase;Acc:MI0003025]
ENSMMUG00000064507 beta-1,3-galactosyltransferase 4 [Source:NCBI gene;Acc:718178]
ENSMMUG00000006705 FRY like transcription coactivator [Source:VGNC Symbol;Acc:VGNC:72803]
ENSMMUG00000056769 C-C motif chemokine receptor 1 [Source:VGNC Symbol;Acc:VGNC:70737]
ENSMMUG00000061118
ENSMMUG00000063482
ENSMMUG00000011338 SLAM family member 8 [Source:VGNC Symbol;Acc:VGNC:77545]
ENSMMUG00000059145
ENSMMUG00000003949 cholinergic receptor nicotinic alpha 10 subunit [Source:NCBI gene;Acc:718133]
ENSMMUG00000012167 solute carrier family 2 member 8 [Source:VGNC Symbol;Acc:VGNC:77470]
ENSMMUG00000023116 LIM domain binding 2 [Source:VGNC Symbol;Acc:VGNC:74246]
ENSMMUG0000000021 catsper channel auxiliary subunit epsilon [Source:VGNC Symbol;Acc:VGNC:70657]
ENSMMUG00000059068
ENSMMUG00000009961 niban apoptosis regulator 2 [Source:VGNC Symbol;Acc:VGNC:75254]
ENSMMUG00000002472 CLPTM1 regulator of GABA type A receptor forward trafficking [Source:VGNC Symbol;Acc:VGNC:71265]
ENSMMUG00000060871 prefoldin subunit 2 [Source:NCBI gene;Acc:719886]
ENSMMUG00000050534
ENSMMUG00000002003 upstream transcription factor 1 [Source:NCBI gene;Acc:719835]
ENSMMUG00000007923 phosphatidylinositol glycan anchor biosynthesis class W [Source:VGNC Symbol;Acc:VGNC:75850]
ENSMMUG00000052326 U7 small nuclear RNA [Source:RFAM;Acc:RF00066]
ENSMMUG00000055530 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000062704 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000001896 G protein subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:73095]
ENSMMUG00000049366 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000014540 acylaminoacyl-peptide hydrolase [Source:VGNC Symbol;Acc:VGNC:69982]

ENSMMUG00000031497
 ENSMMUG00000046665 glutamyl-tRNA amidotransferase subunit C [Source:NCBI gene;Acc:702258]
 ENSMMUG00000023298 F-box protein 15 [Source:VGNC Symbol;Acc:VGNC:72504]
 ENSMMUG00000016925 laminin subunit beta 3 [Source:VGNC Symbol;Acc:VGNC:74230]
 ENSMMUG00000051277
 ENSMMUG00000011137 arylacetamide deacetylase like 4 [Source:VGNC Symbol;Acc:VGNC:81338]
 ENSMMUG00000006163 malate dehydrogenase 1 [Source:VGNC Symbol;Acc:VGNC:74690]
 ENSMMUG00000053454 Ras like without CAAX 1 [Source:NCBI gene;Acc:717985]
 ENSMMUG00000016399 ral guanine nucleotide dissociation stimulator like 1 [Source:VGNC Symbol;Acc:VGNC:76868]
 ENSMMUG00000006509 CREB regulated transcription coactivator 1 [Source:VGNC Symbol;Acc:VGNC:71418]
 ENSMMUG00000013661 presenilin associated rhomboid like [Source:NCBI gene;Acc:704652]
 ENSMMUG000000065108
 ENSMMUG000000060524
 ENSMMUG00000018745 chromosome 6 C5orf49 homolog [Source:VGNC Symbol;Acc:VGNC:70646]
 ENSMMUG00000057951 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
 ENSMMUG00000054312
 ENSMMUG00000004648 KH domain containing 4, pre-mRNA splicing factor [Source:VGNC Symbol;Acc:VGNC:73931]
 ENSMMUG00000014702 TATA-box binding protein associated factor 2 [Source:VGNC Symbol;Acc:VGNC:78090]
 ENSMMUG00000021385 carbonic anhydrase 14 [Source:VGNC Symbol;Acc:VGNC:70489]
 ENSMMUG00000018634 methionine adenosyltransferase 1A [Source:VGNC Symbol;Acc:VGNC:74663]
 ENSMMUG00000056602
 ENSMMUG00000064587
 ENSMMUG00000014173
 ENSMMUG00000006454 kelch like family member 18 [Source:VGNC Symbol;Acc:VGNC:74154]
 ENSMMUG00000055097
 ENSMMUG00000063884
 ENSMMUG00000015738 vascular endothelial growth factor D [Source:VGNC Symbol;Acc:VGNC:79953]
 ENSMMUG00000049640
 ENSMMUG00000000434 cyclin dependent kinase 2 associated protein 1 [Source:VGNC Symbol;Acc:VGNC:70944]
 ENSMMUG00000012636 potassium channel tetramerization domain containing 4 [Source:VGNC Symbol;Acc:VGNC:73892]
 ENSMMUG00000008155 POU class 2 homeobox 1 [Source:VGNC Symbol;Acc:VGNC:76223]
 ENSMMUG00000057627
 S_D2 7 ENSMMUG00000011410 nuclear receptor subfamily 4 group A member 3 [Source:VGNC Symbol;Acc:VGNC:75519]
 ENSMMUG00000007283 3-hydroxyisobutyryl-CoA hydrolase [Source:NCBI gene;Acc:713951]
 ENSMMUG00000017191 zinc finger protein 546 [Source:VGNC Symbol;Acc:VGNC:79732]
 ENSMMUG000000061002
 ENSMMUG00000004223 ring finger protein 10 [Source:VGNC Symbol;Acc:VGNC:76702]
 ENSMMUG00000052019
 ENSMMUG00000060042
 NS_D2 91 ENSMMUG00000017427 ATPase Na⁺/K⁺ transporting subunit alpha 3 [Source:NCBI gene;Acc:706513]
 ENSMMUG00000013777 DDHD domain containing 2 [Source:VGNC Symbol;Acc:VGNC:83992]
 ENSMMUG00000001024 ETS transcription factor ELK4 [Source:VGNC Symbol;Acc:VGNC:72211]
 ENSMMUG00000022278 mitochondrial transcription termination factor 2 [Source:VGNC Symbol;Acc:VGNC:74868]
 ENSMMUG00000052668
 ENSMMUG00000055365
 ENSMMUG00000059728 tumor protein p53 inducible protein 11 [Source:NCBI gene;Acc:715295]
 ENSMMUG00000055903 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
 ENSMMUG00000050435
 ENSMMUG00000014299 chromosome 12 C2orf80 homolog [Source:VGNC Symbol;Acc:VGNC:70459]
 ENSMMUG00000021354 corticotropin releasing hormone binding protein [Source:VGNC Symbol;Acc:VGNC:71491]
 ENSMMUG00000058855 aquaporin 5 [Source:NCBI gene;Acc:711804]

ENSMMUG00000052372
ENSMMUG00000052030 developing brain homeobox 2 [Source:NCBI gene;Acc:701170]
ENSMMUG00000055887
ENSMMUG00000045974 suppressor APC domain containing 1 [Source:VGNC Symbol;Acc:VGNC:83461]
ENSMMUG00000061986
ENSMMUG00000013878 ring finger protein 2 [Source:NCBI gene;Acc:717024]
ENSMMUG0000006048 adaptor related protein complex 2 subunit beta 1 [Source:VGNC Symbol;Acc:VGNC:69964]
ENSMMUG00000045592
ENSMMUG00000048513 tudor domain containing 15 [Source:NCBI gene;Acc:703066]
ENSMMUG00000010596 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 [Source:VGNC Symbol;Acc:VGNC:75959]
ENSMMUG00000005900 GID complex subunit 4 homolog [Source:NCBI gene;Acc:699842]
ENSMMUG00000057064
ENSMMUG00000044277 ubiquitin conjugating enzyme E2 I [Source:NCBI gene;Acc:722434]
ENSMMUG00000054020 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000015355 R-spondin 3 [Source:VGNC Symbol;Acc:VGNC:77066]
ENSMMUG00000019710 centrosomal protein 128 [Source:VGNC Symbol;Acc:VGNC:71062]
ENSMMUG00000064364 sulfite oxidase [Source:NCBI gene;Acc:711164]
ENSMMUG00000005119 histocompatibility minor 13 [Source:VGNC Symbol;Acc:VGNC:81418]
ENSMMUG00000005572 arachidonate 5-lipoxygenase activating protein [Source:VGNC Symbol;Acc:VGNC:69799]
ENSMMUG00000004084 GTP cyclohydrolase 1 [Source:VGNC Symbol;Acc:VGNC:72900]
ENSMMUG00000046165 chromosome 3 C7orf33 homolog [Source:NCBI gene;Acc:710503]
ENSMMUG00000060993 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000056585
ENSMMUG00000051354
ENSMMUG00000051589
ENSMMUG00000023251 KN motif and ankyrin repeat domains 2 [Source:VGNC Symbol;Acc:VGNC:73938]
ENSMMUG00000013220 cytochrome b-245 beta chain [Source:VGNC Symbol;Acc:VGNC:71576]
ENSMMUG00000015540 BTB domain containing 11 [Source:VGNC Symbol;Acc:VGNC:70367]
ENSMMUG00000017070 zinc finger and SCAN domain containing 29 [Source:VGNC Symbol;Acc:VGNC:79633]
ENSMMUG00000015923 ankyrin repeat and EF-hand domain containing 1 [Source:VGNC Symbol;Acc:VGNC:69615]
ENSMMUG00000016449 zinc finger protein 382 [Source:VGNC Symbol;Acc:VGNC:79078]
ENSMMUG00000023450 tyrosylprotein sulfotransferase 2 [Source:VGNC Symbol;Acc:VGNC:78639]
ENSMMUG00000004082 GRB10 interacting GYF protein 1 [Source:VGNC Symbol;Acc:VGNC:73158]
ENSMMUG00000018459 G protein signaling modulator 3 [Source:VGNC Symbol;Acc:VGNC:72938]
ENSMMUG00000014980 keratin 76 [Source:VGNC Symbol;Acc:VGNC:74112]
ENSMMUG00000015845 beta-1,4-N-acetyl-galactosaminyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:70120]
ENSMMUG00000014610 ring finger protein 17 [Source:NCBI gene;Acc:708198]
ENSMMUG00000050794 zinc finger protein 774 [Source:NCBI gene;Acc:702985]
ENSMMUG00000004988 trace amine-associated receptor 3 [Source:NCBI gene;Acc:709130]
ENSMMUG00000019887 synaptic vesicle glycoprotein 2C [Source:VGNC Symbol;Acc:VGNC:78252]
ENSMMUG00000061967 carbohydrate sulfotransferase 4 [Source:NCBI gene;Acc:708116]
ENSMMUG00000014001 protein phosphatase 2 scaffold subunit Abeta [Source:VGNC Symbol;Acc:VGNC:76375]
ENSMMUG00000050015 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000061004 ubiquitin specific peptidase 26 [Source:NCBI gene;Acc:706435]
ENSMMUG00000001402 solute carrier family 15 member 1 [Source:VGNC Symbol;Acc:VGNC:77393]
ENSMMUG00000062559
ENSMMUG00000043096 nuclear transcription factor, X-box binding 1 [Source:NCBI gene;Acc:702945]
ENSMMUG00000064519
ENSMMUG00000041067 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000022944 zinc finger and BTB domain containing 44 [Source:VGNC Symbol;Acc:VGNC:79466]
ENSMMUG00000064626 U1 spliceosomal RNA [Source:RFAM;Acc:RF00003]

ENSMMUG00000011380 consortin, connexin sorting protein [Source:VGNC Symbol;Acc:VGNC:71355]
 ENSMMUG00000041889 ADP ribosylation factor 6 [Source:VGNC Symbol;Acc:VGNC:84306]
 ENSMMUG00000012819 pyruvate dehydrogenase kinase 3 [Source:VGNC Symbol;Acc:VGNC:75934]
 ENSMMUG0000000224 RALBP1 associated Eps domain containing 1 [Source:VGNC Symbol;Acc:VGNC:76738]
 ENSMMUG00000050770
 ENSMMUG00000057840 leucine-rich repeat-containing protein 37A3 [Source:NCBI gene;Acc:715030]
 ENSMMUG00000010980 S100 calcium binding protein A5 [Source:VGNC Symbol;Acc:VGNC:76959]
 ENSMMUG00000013742 regulator of G protein signaling 22 [Source:VGNC Symbol;Acc:VGNC:82221]
 ENSMMUG00000020050 salt inducible kinase 1 [Source:NCBI gene;Acc:722303]
 ENSMMUG00000012775 nuclear receptor subfamily 0 group B member 1 [Source:NCBI gene;Acc:574154]
 ENSMMUG00000064719
 ENSMMUG00000008827 apoptosis inhibitor 5 [Source:NCBI gene;Acc:716346]
 ENSMMUG00000021636 SAP30 binding protein [Source:VGNC Symbol;Acc:VGNC:77142]
 ENSMMUG00000055226 DNA damage inducible transcript 4 [Source:NCBI gene;Acc:715307]
 ENSMMUG00000057062
 ENSMMUG00000050564
 ENSMMUG00000022330 sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 [Source:NCBI gene;Acc:100428398]
 ENSMMUG00000064880
 ENSMMUG00000018284 mutS homolog 3 [Source:VGNC Symbol;Acc:VGNC:74932]
 ENSMMUG00000032031
 ENSMMUG00000011821 phosphatidylinositol transfer protein membrane associated 1 [Source:VGNC Symbol;Acc:VGNC:76007]
 ENSMMUG00000001293 autophagy related 16 like 2 [Source:VGNC Symbol;Acc:VGNC:70130]
 ENSMMUG00000064979 B9 domain containing 2 [Source:NCBI gene;Acc:704873]
 ENSMMUG00000054655 immunoglobulin lambda variable 3-10 [Source:HGNC Symbol;Acc:HGNC:5897]
 ENSMMUG0000007085 zinc finger and BTB domain containing 16 [Source:VGNC Symbol;Acc:VGNC:78845]
 ENSMMUG00000012191 coiled-coil domain containing 153 [Source:NCBI gene;Acc:704216]
 ENSMMUG00000033738 RNA, U6atac small nuclear 6, pseudogene [Source:HGNC Symbol;Acc:HGNC:46905]
 ENSMMUG00000022309 ETS repressor factor like [Source:NCBI gene;Acc:722195]
 79 ENSMMUG00000010788 ATP binding cassette subfamily B member 1 [Source:NCBI gene;Acc:574235]
 ENSMMUG00000062784
 ENSMMUG00000004603 zinc finger CCCH-type containing 14 [Source:VGNC Symbol;Acc:VGNC:79255]
 ENSMMUG00000010878 adaptor related protein complex 1 subunit gamma 1 [Source:VGNC Symbol;Acc:VGNC:69958]
 ENSMMUG00000022359 solute carrier family 38 member 2 [Source:VGNC Symbol;Acc:VGNC:77469]
 ENSMMUG00000016641 ubiquitin conjugating enzyme E2 B [Source:VGNC Symbol;Acc:VGNC:78692]
 ENSMMUG00000016753 dynein axonemal heavy chain 3 [Source:VGNC Symbol;Acc:VGNC:71941]
 ENSMMUG00000020412 parkin coregulated [Source:VGNC Symbol;Acc:VGNC:75646]
 ENSMMUG00000006340 solute carrier family 6 member 6 [Source:VGNC Symbol;Acc:VGNC:77622]
 ENSMMUG00000061085
 ENSMMUG00000003462 ankyrin repeat domain 6 [Source:VGNC Symbol;Acc:VGNC:81023]
 ENSMMUG00000055970
 ENSMMUG00000011850 cadherin 1 [Source:VGNC Symbol;Acc:VGNC:70803]
 ENSMMUG00000014691 inhibitor of DNA binding 4, HLH protein [Source:VGNC Symbol;Acc:VGNC:73557]
 ENSMMUG00000052581 upstream transcription factor family member 3 [Source:NCBI gene;Acc:709660]
 ENSMMUG00000046195 MIS12 kinetochore complex component [Source:NCBI gene;Acc:712202]
 ENSMMUG00000008313 zinc finger protein 792 [Source:VGNC Symbol;Acc:VGNC:79456]
 ENSMMUG00000018814 diacylglycerol kinase alpha [Source:VGNC Symbol;Acc:VGNC:71780]
 ENSMMUG00000015347 protein kinase, DNA-activated, catalytic subunit [Source:VGNC Symbol;Acc:VGNC:76418]
 ENSMMUG00000015604 myosin binding protein C3 [Source:VGNC Symbol;Acc:VGNC:75094]
 ENSMMUG00000004467 X-ray repair cross complementing 1 [Source:NCBI gene;Acc:711457]
 ENSMMUG00000059973
 ENSMMUG00000018738 alcohol dehydrogenase 1B (class I), beta polypeptide [Source:NCBI gene;Acc:707908]

ENSMMUG00000041976 zinc finger protein 780B [Source:NCBI gene;Acc:701034]
ENSMMUG00000053298
ENSMMUG00000054683 dynein axonemal heavy chain 12 [Source:NCBI gene;Acc:703670]
ENSMMUG00000012036 RNA binding motif protein 47 [Source:VGNC Symbol;Acc:VGNC:76576]
ENSMMUG00000017725 eukaryotic elongation factor 2 kinase [Source:VGNC Symbol;Acc:VGNC:72098]
ENSMMUG00000060168
ENSMMUG00000031853 RAB5B, member RAS oncogene family [Source:VGNC Symbol;Acc:VGNC:81546]
ENSMMUG00000012218 calmodulin regulated spectrin associated protein family member 2 [Source:VGNC Symbol;Acc:VGNC:70666]
ENSMMUG00000004614 potassium voltage-gated channel subfamily C member 4 [Source:VGNC Symbol;Acc:VGNC:73974]
ENSMMUG00000008785 E74 like ETS transcription factor 4 [Source:VGNC Symbol;Acc:VGNC:72208]
ENSMMUG00000006669 ubiquitin protein ligase E3 component n-recogin 4 [Source:VGNC Symbol;Acc:VGNC:79845]
ENSMMUG00000022256 transglutaminase 5 [Source:VGNC Symbol;Acc:VGNC:78341]
ENSMMUG00000006310 solute carrier family 3 member 1 [Source:VGNC Symbol;Acc:VGNC:77462]
ENSMMUG00000049945
ENSMMUG00000021620 ELKS/RAB6-interacting/CAST family member 2 [Source:VGNC Symbol;Acc:VGNC:72164]
ENSMMUG00000062006 methionyl aminopeptidase 2 [Source:NCBI gene;Acc:712400]
ENSMMUG00000009425 actin, cytoplasmic 2-like [Source:NCBI gene;Acc:705671]
ENSMMUG00000047594
ENSMMUG00000037975 solute carrier family 7 member 6 [Source:NCBI gene;Acc:702903]
ENSMMUG00000050418 superoxide dismutase 2 [Source:NCBI gene;Acc:574097]
ENSMMUG00000019665 SURP and G-patch domain containing 2 [Source:VGNC Symbol;Acc:VGNC:78163]
ENSMMUG00000017025 zinc finger CCCH-type containing 13 [Source:VGNC Symbol;Acc:VGNC:79248]
ENSMMUG00000008965 piwi like RNA-mediated gene silencing 4 [Source:VGNC Symbol;Acc:VGNC:81504]
ENSMMUG00000063348
ENSMMUG00000053233
ENSMMUG00000018051 FAT atypical cadherin 1 [Source:VGNC Symbol;Acc:VGNC:72617]
ENSMMUG00000060215 Y RNA [Source:RFAM;Acc:RF00019]
ENSMMUG00000060845 F-box protein 48 [Source:NCBI gene;Acc:699202]
ENSMMUG00000010647 inducible T cell costimulator ligand [Source:NCBI gene;Acc:722191]
ENSMMUG00000015018 CD5 molecule [Source:VGNC Symbol;Acc:VGNC:70770]
ENSMMUG00000016860 zinc finger protein 490 [Source:NCBI gene;Acc:100426568]
ENSMMUG00000049999 cone-rod homeobox [Source:NCBI gene;Acc:717550]
ENSMMUG00000010321 C2 domain containing 3 centriole elongation regulator [Source:VGNC Symbol;Acc:VGNC:70375]
ENSMMUG00000007077 APOBEC1 complementation factor [Source:VGNC Symbol;Acc:VGNC:69523]
ENSMMUG00000064114 zinc finger protein 709 [Source:NCBI gene;Acc:100427466]
ENSMMUG00000022372 cytochrome b561 family member A3 [Source:VGNC Symbol;Acc:VGNC:71458]
ENSMMUG00000018279 adaptor related protein complex 5 subunit mu 1 [Source:VGNC Symbol;Acc:VGNC:69868]
ENSMMUG00000018566 Janus kinase 1 [Source:VGNC Symbol;Acc:VGNC:73810]
ENSMMUG00000014884 ubiquitin specific peptidase 8 [Source:VGNC Symbol;Acc:VGNC:78748]
ENSMMUG00000052328 FAM20C golgi associated secretory pathway kinase [Source:NCBI gene;Acc:695088]
ENSMMUG00000029176 Rho GTPase activating protein 17 [Source:NCBI gene;Acc:701988]
ENSMMUG00000011274 prolyl 4-hydroxylase subunit alpha 1 [Source:VGNC Symbol;Acc:VGNC:75741]
ENSMMUG00000014697 nuclear factor I B [Source:VGNC Symbol;Acc:VGNC:75335]
ENSMMUG00000022303 solute carrier family 7 member 2 [Source:VGNC Symbol;Acc:VGNC:77629]
ENSMMUG00000010304 cilia and flagella associated protein 298 [Source:NCBI gene;Acc:700721]
ENSMMUG00000059543 zinc finger protein 30 [Source:NCBI gene;Acc:718310]
ENSMMUG00000021420 pleckstrin 2 [Source:VGNC Symbol;Acc:VGNC:76071]
ENSMMUG00000006311 prolyl endopeptidase like [Source:VGNC Symbol;Acc:VGNC:76346]
ENSMMUG0000002338 heterogeneous nuclear ribonucleoprotein L like [Source:VGNC Symbol;Acc:VGNC:73441]
ENSMMUG00000042157 caspase recruitment domain-containing protein 8 [Source:NCBI gene;Acc:718594]
ENSMMUG0000002121 armadillo like helical domain containing 4 [Source:VGNC Symbol;Acc:VGNC:82106]

NS_D3

113 ENSMUG00000015317 HD domain containing 2 [Source:VGNC Symbol;Acc:VGNC:73209]
ENSMUG00000060439 schlafen family member 12 like [Source:NCBI gene;Acc:106992394]
ENSMUG00000012761 sialic acid binding Ig like lectin 5 [Source:NCBI gene;Acc:719730]
ENSMUG00000057209
ENSMUG00000005622 dynein axonemal heavy chain 7 [Source:VGNC Symbol;Acc:VGNC:71859]
ENSMUG00000058754
ENSMUG00000014424 ADP ribosylation factor guanine nucleotide exchange factor 1 [Source:VGNC Symbol;Acc:VGNC:69834]
ENSMUG00000021772 nephrocystin 3 [Source:NCBI gene;Acc:717622]
ENSMUG00000046428
ENSMUG00000013476 PHD finger protein 11 [Source:VGNC Symbol;Acc:VGNC:75814]
ENSMUG00000063718 Kruppel like factor 9 [Source:NCBI gene;Acc:700585]
ENSMUG00000039781 sosondowah ankyrin repeat domain family member A [Source:VGNC Symbol;Acc:VGNC:84498]
ENSMUG00000017143 LDL receptor related protein 2 [Source:VGNC Symbol;Acc:VGNC:81430]
ENSMUG00000061372
ENSMUG00000010060 serine rich single-pass membrane protein 1 [Source:VGNC Symbol;Acc:VGNC:78014]
ENSMUG00000010621 heart and neural crest derivatives expressed 1 [Source:VGNC Symbol;Acc:VGNC:73345]
ENSMUG00000037662 selenoprotein M [Source:NCBI gene;Acc:718290]
ENSMUG00000021243 zinc finger and BTB domain containing 47 [Source:VGNC Symbol;Acc:VGNC:79645]
ENSMUG00000064798
ENSMUG00000001061 BICD cargo adaptor 2 [Source:VGNC Symbol;Acc:VGNC:70333]
ENSMUG00000045775 macrophage expressed 1 [Source:NCBI gene;Acc:700274]
ENSMUG00000009785 C-C motif chemokine ligand 13 [Source:VGNC Symbol;Acc:VGNC:70696]
ENSMUG00000058698
ENSMUG00000059852
ENSMUG00000059850 immunoglobulin kappa variable 1-9 [Source:NCBI gene;Acc:106993071]
ENSMUG00000050407
ENSMUG00000009114 maestro heat like repeat family member 7 [Source:NCBI gene;Acc:715310]
ENSMUG00000016717 polycystin 1 like 3, transient receptor potential channel interacting [Source:VGNC Symbol;Acc:VGNC:75846]
ENSMUG00000064793 C-C motif chemokine ligand 11 [Source:NCBI gene;Acc:574218]
ENSMUG00000009951 MARCKS like 1 [Source:VGNC Symbol;Acc:VGNC:74723]
ENSMUG00000022442 single stranded DNA binding protein 1 [Source:VGNC Symbol;Acc:VGNC:77886]
ENSMUG00000060221 growth differentiation factor 9 [Source:NCBI gene;Acc:712792]
ENSMUG00000056113
ENSMUG00000022553 pyruvate dehydrogenase kinase 1 [Source:VGNC Symbol;Acc:VGNC:75932]
ENSMUG0000006866 CUGBP Elav-like family member 4 [Source:VGNC Symbol;Acc:VGNC:70945]
ENSMUG00000061766
ENSMUG00000010252 FERM and PDZ domain containing 4 [Source:VGNC Symbol;Acc:VGNC:72802]
ENSMUG00000028736 hydroxysteroid 17-beta dehydrogenase 14 [Source:NCBI gene;Acc:106994816]
ENSMUG00000059464
ENSMUG00000015375 cadherin EGF LAG seven-pass G-type receptor 2 [Source:VGNC Symbol;Acc:VGNC:71149]
ENSMUG00000020819 protein phosphatase 2 catalytic subunit beta [Source:VGNC Symbol;Acc:VGNC:76373]
ENSMUG00000050445 ribonuclease A family member 8 [Source:NCBI gene;Acc:716333]
ENSMUG00000017939 FA core complex associated protein 24 [Source:VGNC Symbol;Acc:VGNC:72388]
ENSMUG00000014002 cyclin dependent kinase 16 [Source:VGNC Symbol;Acc:VGNC:71160]
ENSMUG00000004885 quiescin sulphydryl oxidase 2 [Source:VGNC Symbol;Acc:VGNC:76568]
ENSMUG00000010871 crystallin gamma B [Source:VGNC Symbol;Acc:VGNC:71507]
ENSMUG00000002337 aquarius intron-binding spliceosomal factor [Source:VGNC Symbol;Acc:VGNC:69925]
ENSMUG00000011845 hexokinase 2 [Source:VGNC Symbol;Acc:VGNC:73475]
ENSMUG00000008199 leucine-rich repeat-containing protein 37A [Source:NCBI gene;Acc:714675]
ENSMUG00000057747
ENSMUG00000038389

ENSMMUG00000058864
ENSMMUG00000062461 chromosome 15 C9orf43 homolog [Source:NCBI gene;Acc:704968]
ENSMMUG00000007724 aprataxin [Source:VGNC Symbol;Acc:VGNC:69838]
ENSMMUG00000011282 DnaJ heat shock protein family (Hsp40) member C9 [Source:NCBI gene;Acc:707599]
ENSMMUG00000020114 cadherin 13 [Source:VGNC Symbol;Acc:VGNC:70807]
ENSMMUG00000017243 ring finger protein 165 [Source:VGNC Symbol;Acc:VGNC:76877]
ENSMMUG00000061261 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000016018 establishment of sister chromatid cohesion N-acetyltransferase 2 [Source:VGNC Symbol;Acc:VGNC:72374]
ENSMMUG00000014334 dopamine receptor D2 [Source:VGNC Symbol;Acc:VGNC:71989]
ENSMMUG00000041775 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000017678 kelch like family member 28 [Source:VGNC Symbol;Acc:VGNC:74085]
ENSMMUG00000052176
ENSMMUG00000052169 potassium two pore domain channel subfamily K member 12 [Source:NCBI gene;Acc:715556]
ENSMMUG00000042299 DENN domain containing 2A [Source:VGNC Symbol;Acc:VGNC:81302]
ENSMMUG00000058281 ITPRIP like 2 [Source:NCBI gene;Acc:694060]
ENSMMUG00000020125 SUMO specific peptidase 1 [Source:NCBI gene;Acc:707603]
ENSMMUG00000002775 U2 snRNP associated SURP domain containing [Source:VGNC Symbol;Acc:VGNC:79889]
ENSMMUG00000059659
ENSMMUG00000011811 anoctamin 6 [Source:VGNC Symbol;Acc:VGNC:69902]
ENSMMUG00000049908 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000007917 carbonic anhydrase 4 [Source:NCBI gene;Acc:716919]
ENSMMUG00000013862 ArfGAP with coiled-coil, ankyrin repeat and PH domains 3 [Source:VGNC Symbol;Acc:VGNC:69434]
ENSMMUG00000007115 RALY RNA binding protein like [Source:VGNC Symbol;Acc:VGNC:82217]
ENSMMUG00000017252 spermatogenesis associated 20 [Source:VGNC Symbol;Acc:VGNC:77993]
ENSMMUG00000050773
ENSMMUG00000048493 neuroblastoma breakpoint family member 6-like protein [Source:NCBI gene;Acc:711999]
ENSMMUG00000055481 regulator of G protein signaling 16 [Source:NCBI gene;Acc:715599]
ENSMMUG00000061953
ENSMMUG00000064748 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000060158
ENSMMUG00000023778 F-box protein 32 [Source:VGNC Symbol;Acc:VGNC:72517]
ENSMMUG00000060080 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000011367 BUD23 rRNA methyltransferase and ribosome maturation factor [Source:VGNC Symbol;Acc:VGNC:70325]
ENSMMUG00000022430 splicing factor 3b subunit 1 [Source:VGNC Symbol;Acc:VGNC:77179]
ENSMMUG00000054660 R-spondin 2 [Source:NCBI gene;Acc:697376]
ENSMMUG00000056664 U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
ENSMMUG00000052889 Metazoan signal recognition particle RNA [Source:RFAM;Acc:RF00017]
ENSMMUG00000010495 MAPK activated protein kinase 3 [Source:VGNC Symbol;Acc:VGNC:74654]
ENSMMUG00000050271
ENSMMUG00000053323
ENSMMUG00000021246 hedgehog acyltransferase like [Source:NCBI gene;Acc:717333]
ENSMMUG00000054793
ENSMMUG00000009222 pleckstrin homology domain containing A4 [Source:VGNC Symbol;Acc:VGNC:76027]
ENSMMUG00000060011 hyaluronan and proteoglycan link protein 2 [Source:NCBI gene;Acc:718500]
ENSMMUG00000012479 lysine demethylase 4A [Source:NCBI gene;Acc:701272]
ENSMMUG00000001995 chromosome 14 C11orf16 homolog [Source:NCBI gene;Acc:705319]
ENSMMUG00000016683 phosphorylated adaptor for RNA export [Source:NCBI gene;Acc:702980]
ENSMMUG00000007626 intersectin 1 [Source:VGNC Symbol;Acc:VGNC:73806]
ENSMMUG00000043458 transmembrane protein 178A [Source:NCBI gene;Acc:714010]
ENSMMUG00000053845
ENSMMUG00000022191 laeverin [Source:VGNC Symbol;Acc:VGNC:74372]

ENSMMUG00000003771 ubiquitin like 3 [Source:VGNC Symbol;Acc:VGNC:78701]
ENSMMUG00000001040 nuclear GTPase, germinal center associated [Source:VGNC Symbol;Acc:VGNC:75497]
ENSMMUG00000008346 structural maintenance of chromosomes 5 [Source:NCBI gene;Acc:702219]
ENSMMUG000000061186
ENSMMUG000000057793 dual specificity phosphatase 5 [Source:NCBI gene;Acc:698178]
ENSMMUG00000000352 family with sequence similarity 229 member A [Source:NCBI gene;Acc:708770]
ENSMMUG000000038667
ENSMMUG000000019883 RNA binding motif protein 20 [Source:NCBI gene;Acc:698677]
ENSMMUG000000013510 FMR1 autosomal homolog 2 [Source:NCBI gene;Acc:721889]
ENSMMUG000000021094 desmoglein 3 [Source:VGNC Symbol;Acc:VGNC:72003]
ENSMMUG000000013666 copine 8 [Source:NCBI gene;Acc:114669741]
ENSMMUG000000060024
ENSMMUG000000041905 protein phosphatase 2 regulatory subunit Balpha [Source:VGNC Symbol;Acc:VGNC:84103]
ENSMMUG00000006828 valyl-tRNA synthetase 1 [Source:VGNC Symbol;Acc:VGNC:78755]
ENSMMUG000000019423 zinc finger protein 2 [Source:NCBI gene;Acc:703864]
ENSMMUG000000010689 fermitin family member 2 [Source:VGNC Symbol;Acc:VGNC:82144]

Supp. Table 4. Ingenuity pathway analysis showing up and down regulated pathways in survivors and non-survivors of radiation injury

Survivors

Down regulated

Day 1 vs. Control

Ingenuity Canonical Pathways	-log(p-value)	Ratio	Molecules
Huntington's Disease Signaling	3.69	0.073	AKT2,CASP8,CASP9,CREB1,CREB5,DNM2,GNA11,HDAC1,MAPK9,NAPA,PENK,PIK3C2A,PSME1,PSME2,PSMF1,SP1,TP53
Estrogen-Dependent Breast Cancer Signaling	3.13	0.11	AKT2,CREB1,CREB5,DHRS11,ESR1,NFKB1,PIK3C2A,SP1
BAG2 Signaling Pathway	3.08	0.143	NFKB1,PSME1,PSME2,PSMF1,SP1,TP53
Pancreatic Adenocarcinoma Signaling	2.61	0.083	AKT2,CASP9,MAPK9,NFKB1,PIK3C2A,PTGS2,RAD51,SMAD2,TP53
B Cell Receptor Signaling	2.46	0.067	AKT2,CAMK2G,CAMK4,CREB1,CREB5,ETS1,MAP3K13,MAPK9,MEF2C,NFKB1,PIK3C2A,POU2F2
Apelin Endothelial Signaling Pathway	2.45	0.079	AKT2,APLNR,CAMK4,GNA11,MAPK9,MEF2C,NFKB1,PIK3C2A,SP1
GP6 Signaling Pathway	2.4	0.078	AKT2,CAMK4,COL11A2,COL16A1,COL6A5,LAMC2,NOX1,PIK3C2A,TLN1
Neuroinflammation Signaling Pathway	2.28	0.055	AKT2,CASP8,CREB1,CREB5,GAD1,GJB1,MAPK9,NFKB1,NOX1,NOX4,PIK3C2A,PSEN2,PTGS2,SLC1A2,TGFBR3,TYROBP
RAR Activation	2.26	0.063	AKT2,ARID2,CSNK2A1,GTF2H2,MAPK9,NFKB1,NRIP2,PRMT1,SDR16C5,SMAD2,SMARCD1,TNIP1
Sumoylation Pathway	2.24	0.079	ETS1,HDAC1,KDM1A,MAPK9,NFKB1,SP1,TP53,ZNF217
FAT10 Cancer Signaling Pathway	2.12	0.109	AKT2,NFKB1,SMAD2,TGFBR3,TP53
Myc Mediated Apoptosis Signaling	2.11	0.092	AKT2,CASP8,CASP9,MAPK9,PIK3C2A,TP53
Granzyme B Signaling	2.08	0.188	CASP8,CASP9,NUMA1
Glucocorticoid Receptor Signaling	2.06	0.051	AKT2,ARID2,CD3E,CREB1,CREBZF,CSN2,ESR1,GTF2B,GTF2H2,MAPK9,NFKB1,NR3C2,PIK3C2A,POU2F2,PTGS2,SMAD2,SMARCD1
Adipogenesis pathway	2.04	0.068	CLOCK,GTF2H2,HAT1,HDAC1,KDM1A,KLF5,SETDB1,SMO,TP53
Prostate Cancer Signaling	2	0.079	AKT2,CASP9,CREB1,CREB5,NFKB1,PIK3C2A,TP53
NGF Signaling	1.95	0.071	AKT2,CREB1,CREB5,MAP3K13,MAPK9,NFKB1,PIK3C2A,TP53
Circadian Rhythm Signaling	1.95	0.121	CLOCK,CREB1,CREB5,CRY1
FAT10 Signaling Pathway	1.94	0.167	PSME1,PSME2,PSMF1
Small Cell Lung Cancer Signaling	1.93	0.085	AKT2,CASP9,NFKB1,PIK3C2A,PTGS2,TP53
CD27 Signaling in Lymphocytes	1.9	0.096	CASP8,CASP9,MAP3K13,MAPK9,NFKB1
ATM Signaling	1.84	0.073	CREB1,CREB5,MAPK9,RAD51,TLK1,TP53
Adrenomedullin signaling pathway	1.83	0.057	AKT2,CAMK4,GAD1,GNA11,GPR182,KCNH2,KCNN1,MAPK9,NFKB1,PIK3C2A,TTN
Wnt/ β -catenin Signaling	1.78	0.059	AKT2,APPL2,CSNK2A1,GJA1,HDAC1,SMO,SOX5,TGFBR3,TP53,WNT2B
NAD Salvage Pathway II	1.75	0.143	ACPP,NMNAT2,NT5E
Apelin Adipocyte Signaling Pathway	1.74	0.077	APLNR,GNA11,GPX6,MAPK9,NOX1,NOX4
Docosahexaenoic Acid (DHA) Signaling	1.74	0.105	AKT2,ALOX15,CASP9,PIK3C2A
Cancer Drug Resistance By Drug Efflux	1.71	0.086	ABCG2,AKT2,NFKB1,PTGS2,TP53
Polyamine Regulation in Colon Cancer	1.7	0.136	PSME1,PSME2,PSMF1
Telomerase Signaling	1.66	0.067	AKT2,ETS1,HDAC1,IL2RA,PIK3C2A,SP1,TP53
Induction of Apoptosis by HIV1	1.66	0.083	CASP8,CASP9,MAPK9,NFKB1,TP53
PEDF Signaling	1.64	0.073	AKT2,CASP8,NFKB1,PIK3C2A,TCF12,TP53
Integrin Signaling	1.64	0.054	AKT2,ARHGEF7,ITGAV,ITGB6,ITGB8,NEDD9,PIK3C2A,PIKFYVE,TLN1,TSPAN5,TTN
Heme Biosynthesis II	1.64	0.222	PPOX,UROS
Role of PKR in Interferon Induction and Antiviral Response	1.63	0.098	CASP8,CASP9,NFKB1,TP53
iCOS-iCOSL Signaling in T Helper Cells	1.62	0.066	AKT2,CAMK2G,CAMK4,CD3E,IL2RA,NFKB1,PIK3C2A
Paxillin Signaling	1.62	0.066	ARHGEF7,ITGAV,ITGB6,ITGB8,MAPK9,PIK3C2A,TLN1
Osteoarthritis Pathway	1.62	0.053	CASP8,CASP9,CREB1,CREB5,MEF2C,NFKB1,PTGS2,SLC39A8,SMAD2,SMO,SP1
HOTAIR Regulatory Pathway	1.61	0.058	AGO3,AKT2,ESR1,HDAC1,KDM1A,NFKB1,PIK3C2A,SETDB1,WNT2B
HER-2 Signaling in Breast Cancer	1.6	0.071	AKT2,CASP9,ITGB6,ITGB8,PIK3C2A,TP53
FGF Signaling	1.6	0.071	AKT2,CREB1,CREB5,FGF10,FRS2,PIK3C2A
MIF Regulation of Innate Immunity	1.59	0.095	MAPK9,NFKB1,PTGS2,TP53
Tumoricidal Function of Hepatic Natural Killer Cells	1.59	0.125	AIFM1,CASP8,CASP9
Thio-molybdenum Cofactor Biosynthesis	1.57	1	MOCOS

Apelin Pancreas Signaling Pathway	1.56	0.093	APLNR,MAPK9,NFKB1,PIK3C2A
ILK Signaling	1.56	0.054	AKT2,CREB1,CREB5,ITGB6,ITGB8,MAPK9,NFKB1,PIK3C2A,PTGS2,TESK1
RANK Signaling in Osteoclasts	1.55	0.07	AKT2,CAMK4,MAP3K13,MAPK9,NFKB1,PIK3C2A
Glycine Betaine Degradation	1.55	0.2	SARDH,SDS
Gluconeogenesis I	1.55	0.12	ALDOA,GAPDH,ME3
Hereditary Breast Cancer Signaling	1.5	0.058	AKT2,ARID2,HDAC1,PIK3C2A,RAD51,SMARCD1,TP53,XPC
Apelin Liver Signaling Pathway	1.5	0.115	APLNR,COL11A2,MAPK9
Ovarian Cancer Signaling	1.49	0.058	AKT2,GJA1,PIK3C2A,PTGS2,RAD51,SMO,TP53,WNT2B
Regulation of the Epithelial-Mesenchymal Transition Pathway	1.48	0.052	AKT2,ETS1,FGF10,FRS2,NFKB1,PIK3C2A,PSEN2,SMAD2,SMO,WNT2B
PFKFB4 Signaling Pathway	1.46	0.087	CREB1,CREB5,HK3,TP53
Phagosome Maturation	1.46	0.057	ATP6V0A4,ATP6V1B1,EEA1,NAPA,NOX1,NOX4,PIKFYVE,VPS16
Role of p14/p19ARF in Tumor Suppression	1.42	0.107	PIK3C2A,POLR3D,TP53
GM-CSF Signaling	1.4	0.071	AKT2,CAMK2G,ETS1,HCK,PIK3C2A
Assembly of RNA Polymerase III Complex	1.4	0.167	GTF3C3,POLR3D
Guanosine Nucleotides Degradation III	1.4	0.167	ACPP,NT5E
Sonic Hedgehog Signaling	1.38	0.103	DYRK1B,HHIP,SMO

Survivors

Up regulated

Day 1 vs. Control

Ingenuity Canonical Pathways

	-log(p-value)	Ratio	Molecules
Hepatic Cholestasis	4.13	0.101	ABCB11,ABCG5,ABCG8,CD14,CYP27A1,IL13,INSR,LTA,LTB,PRKACB,PRKCE,PRKCH,PRKD3,SLC10A1,TNF,TNFRSF1A,TNFRSF1B,TRAF2
Fcγ Receptor-mediated Phagocytosis in Macrophages and Monocytes	3.32	0.118	CBL,LYN,MAPK3,PAK1,PLD2,PRKCE,PRKCH,PRKD3,RAB11A,RPS6KB2,SYK
Neuregulin Signaling	3.27	0.117	DLG4,EGF,MAPK3,PRKCE,PRKCH,PRKD3,PSEN1,RALB,RPS6KB2,RRAS,STAT5B
Apoptosis Signaling	3.12	0.112	BID,BIRC2,CAPN3,MAP3K5,MAPK3,PRKCE,RALB,RRAS,TNF,TNFRSF1A,TNFRSF1B
Germ Cell-Sertoli Cell Junction Signaling	3.03	0.09	AFDN,CTNNA2,JUP,LAMC3,MAP3K5,MAPK3,PAK1,PAK6,RAB8B,RALB,RHOBTB2,RRAS,TNF,TNFRSF1A,ZYX
Natural Killer Cell Signaling	3	0.103	INPPL1,KLRD1,MAPK3,NCR3,PAK1,PAK6,PRKCE,PRKCH,PRKD3,RALB,RRAS,SYK
Opioid Signaling Pathway	2.88	0.078	CACNA1F,CLTCL1,GRK2,GRK7,LYN,MAPK3,PLD2,PRKACB,PRKCE,PRKCH,PRKD3,RALB,RGS10,RGS6,RPS6KA4,RPS6KB2,RRAS,RYR2,RYR3
TNFR1 Signaling	2.82	0.146	BID,BIRC2,PAK1,PAK6,TNF,TNFRSF1A,TRAF2
Erythropoietin Signaling	2.82	0.118	CBL,EPOR,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,STAT5B
Type II Diabetes Mellitus Signaling	2.8	0.093	CACNA1F,GCK,INSR,MAP3K5,MAPK3,PRKAG3,PRKCE,PRKCH,PRKD3,TNF,TNFRSF1A,TNFRSF1B,TRAF2
Amyloid Processing	2.72	0.14	BACE2,CAPN3,CSNK2B,MAPK3,PRKACB,PRKCE,PSEN1
LPS-stimulated MAPK Signaling	2.58	0.11	CD14,MAP3K5,MAPK3,PAK1,PRKCE,PRKCH,PRKD3,RALB,RRAS
Fc Epsilon RI Signaling	2.5	0.094	IL13,INPPL1,LYN,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,SYK,TNF
PPAR Signaling	2.48	0.099	AIP,INSR,MAPK3,RALB,RRAS,STAT5B,TNF,TNFRSF1A,TNFRSF1B,TRAF2
TNFR2 Signaling	2.47	0.172	BIRC2,LTA,TNF,TNFRSF1B,TRAF2
Semaphorin Signaling in Neurons	2.39	0.123	CRMP1,MAPK3,PAK1,PAK6,PLXNB1,RHOBTB2,ROCK2
LXR/RXR Activation	2.38	0.091	ABCG5,ABCG8,ALB,APOM,ARG2,CD14,MMP9,SERPINF2,TNF,TNFRSF1A,TNFRSF1B
Actin Cytoskeleton Signaling	2.36	0.075	ARHGAP35,CD14,CSK,EGF,GIT1,MAPK3,MYH14,MYL7,NCKAP1,PAK1,PAK6,PIP5K1B,RALB,ROCK2,RRAS,SSH2
Induction of Apoptosis by HIV1	2.26	0.117	BID,BIRC2,MAP3K5,TNF,TNFRSF1A,TNFRSF1B,TRAF2
14-3-3-mediated Signaling	2.25	0.087	CBL,MAP3K5,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,TNF,TNFRSF1A,TRAF2
Sertoli Cell-Sertoli Cell Junction Signaling	2.24	0.077	AFDN,CLDN2,CTNNA2,GUCY1A1,JUP,MAP3K5,MAPK3,PRKACB,RAB8B,RALB,RRAS,SPTB,TNF,TNFRSF1A
Macropinocytosis Signaling	2.24	0.105	CD14,EGF,PAK1,PRKCE,PRKCH,PRKD3,RALB,RRAS
ErbB Signaling	2.22	0.097	EGF,MAPK3,PAK1,PAK6,PRKCE,PRKCH,PRKD3,RALB,RRAS
FAK Signaling	2.19	0.096	ARHGAP26,CAPN3,CSK,EGF,MAPK3,PAK1,PAK6,RALB,RRAS
Nitric Oxide Signaling in the Cardiovascular System	2.19	0.096	ARG2,GUCY1A1,MAPK3,PRKACB,PRKCE,PRKCH,PRKD3,RYR2,VEGFB
mTOR Signaling	2.19	0.074	EIF3C,EIF4G3,INSR,MAPK3,PLD2,PRKAG3,PRKCE,PRKCH,PRKD3,RALB,RHOBTB2,RPS6KA4,RPS6KB2,RRAS,VEGFB
Thrombopoietin Signaling	2.15	0.111	MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,STAT5B
Integrin Signaling	2.15	0.073	ARHGAP26,BCAR3,CAPN3,GIT1,ITGA1,MAPK3,MYL7,PAK1,PAK6,PARVA,RALB,RHOBTB2,RRAS,WIPF1,ZYX
IL-3 Signaling	2.14	0.101	MAPK3,PAK1,PRKCE,PRKCH,PRKD3,RALB,RRAS,STAT5B
Systemic Lupus Erythematosus In B Cell Signaling Pathway	2.14	0.068	CBL,CSK,IL13,INPPL1,IRF5,LTA,LTB,LYN,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,STAT2,SYK,TNF,TRAF2
Airway Inflammation in Asthma	2.14	0.5	IL13,TNF
PAK Signaling	2.13	0.094	GIT1,MAPK3,MYL7,PAK1,PAK1IP1,PAK6,RALB,RRAS,TNF
Coagulation System	2.11	0.143	F5,F7,SERPINC1,SERPINF2,VWF
Prolactin Signaling	2.08	0.099	MAPK3,NR3C1,PRKCE,PRKCH,PRKD3,RALB,RRAS,STAT5B
GP6 Signaling Pathway	2.06	0.086	COL11A1,COL18A1,COL4A2,COL9A2,LAMC3,LYN,PRKCE,PRKCH,PRKD3,SYK
NF-κB Activation by Viruses	2.05	0.098	ITGA1,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,TRAF2
ErbB4 Signaling	2.04	0.106	MAPK3,PRKCE,PRKCH,PRKD3,PSEN1,RALB,RRAS
Renin-Angiotensin Signaling	2.03	0.086	MAPK3,PAK1,PAK6,PRKACB,PRKCE,PRKCH,PRKD3,RALB,RRAS,TNF
UVC-Induced MAPK Signaling	2.03	0.118	MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS
HER-2 Signaling in Breast Cancer	1.99	0.095	CCNE1,EGF,MAP3K5,PRKCE,PRKCH,PRKD3,RALB,RRAS
NF-κB Signaling	1.96	0.074	CARD10,CSNK2B,EGF,FGFR3,INSR,LTA,PRKACB,RALB,RRAS,TNF,TNFRSF1A,TNFRSF1B,TRAF2
CCR3 Signaling in Eosinophils	1.96	0.083	CCR3,MAPK3,PAK1,PAK6,PRKCE,PRKCH,PRKD3,RALB,ROCK2,RRAS
Acute Phase Response Signaling	1.92	0.073	ALB,HRG,MAP3K5,MAPK3,NR3C1,RALB,RRAS,SERPINF2,TNF,TNFRSF1A,TNFRSF1B,TRAF2,VWF
Growth Hormone Signaling	1.87	0.099	MAPK3,PRKCE,PRKCH,PRKD3,RPS6KA4,RPS6KB2,STAT5B
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.85	0.071	CD14,COL11A1,COL18A1,COL4A2,COL9A2,EGF,MMP9,MYH14,MYL7,TNF,TNFRSF1A,TNFRSF1B,VEGFB
Virus Entry via Endocytic Pathways	1.84	0.084	AP3S1,CLTCL1,FLNB,ITGA1,PRKCE,PRKCH,PRKD3,RALB,RRAS

CXCR4 Signaling	1.82	0.073	LYN,MAPK3,MYL7,PAK1,PAK6,PRKCE,PRKCH,PRKD3,RALB,RHOBTB2,ROCK2,RRAS
Death Receptor Signaling	1.82	0.089	BID,BIRC2,MAP3K5,TNF,TNFRSF10B,TNFRSF1A,TNFRSF1B,TRAF2
Granulocyte Adhesion and Diapedesis	1.8	0.073	CLDN2,CSF3,ITGA1,MMP19,MMP9,SELE,SELL,SELP,THY1,TNF,TNFRSF1A,TNFRSF1B
Extrinsic Prothrombin Activation Pathway	1.74	0.188	F5,F7,SERPINC1
Agrin Interactions at Neuromuscular Junction	1.72	0.092	ITGA1,MAPK3,PAK1,PAK6,RALB,RRAS,UTRN
Sperm Motility	1.7	0.066	CLK4,CSK,EPHA2,FGFR3,GUCY1A1,INSR,LYN,PEAK1,PRKACB,PRKCE,PRKCH,PRKD3,ROR2,SYK
Molecular Mechanisms of Cancer	1.68	0.057	ARHGEF17,BID,BIRC2,BMP5,CBL,CCNE1,CTNNA2,E2F4,HHAT,MAP3K5,MAPK3,PAK1,PAK6,PRKACB,PRKCE,PRKCH,PRKD3,PSEN1,RALB,RHOBTB2,RRAS,ZBTB
D-myo-inositol (1,4,5)-trisphosphate Degradation	1.67	0.176	INPP5E,INPPL1,SEC16A
Apelin Endothelial Signaling Pathway	1.67	0.079	AQP2,MAPK3,PRKAG3,PRKCE,PRKCH,PRKD3,RALB,RPS6KB2,RRAS
IL-2 Signaling	1.67	0.098	CSNK2B,MAPK3,RALB,RRAS,STAT5B,SYK
Leukocyte Extravasation Signaling	1.66	0.067	AFDN,ARHGAP35,CLDN2,CTNNA2,ITGA1,MMP19,MMP9,PRKCE,PRKCH,PRKD3,ROCK2,THY1,WIPF1
Bladder Cancer Signaling	1.66	0.083	EGF,FGFR3,MAPK3,MMP19,MMP9,RALB,RRAS,VEGFB
FLT3 Signaling in Hematopoietic Progenitor Cells	1.64	0.089	CBL,MAPK3,RALB,RPS6KA4,RRAS,STAT2,STAT5B
IL-8 Signaling	1.63	0.067	EGF,MAPK3,MMP9,MYL7,PLD2,PRKCE,PRKCH,PRKD3,RALB,RHOBTB2,ROCK2,RRAS,VEGFB
nNOS Signaling in Neurons	1.63	0.109	CAPN3,DLG4,PRKCE,PRKCH,PRKD3
Glucose and Glucose-1-phosphate Degradation	1.62	0.286	GCK,RGN
Cholecystokinin/Gastrin-mediated Signaling	1.61	0.077	MAPK3,PRKCE,PRKCH,PRKD3,RALB,RHOBTB2,ROCK2,RRAS,TNF
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	1.6	0.167	CSF3,IL13,TNF
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	1.6	0.167	INPP5E,INPPL1,SEC16A
D-myo-inositol (1,3,4)-trisphosphate Biosynthesis	1.6	0.167	INPP5E,INPPL1,SEC16A
IL-15 Production	1.59	0.076	CLK4,CSK,EPHA2,FGFR3,INSR,LYN,PEAK1,ROR2,SYK
HMGB1 Signaling	1.59	0.07	IL13,LTA,LTB,MAPK3,RALB,RHOBTB2,RRAS,SELE,TNF,TNFRSF1A,TNFRSF1B
Regulation of Cellular Mechanics by Calpain Protease	1.57	0.094	CAPN3,CCNE1,EGF,MAPK3,RALB,RRAS
Tec Kinase Signaling	1.53	0.069	LYN,PAK1,PAK6,PRKCE,PRKCH,PRKD3,RHOBTB2,STAT2,STAT5B,TNF,TNFRSF10B
Atherosclerosis Signaling	1.53	0.074	ALB,ALOX15B,APOM,CCR3,COL18A1,MMP9,SELE,SELP,TNF
VEGF Family Ligand-Receptor Interactions	1.51	0.083	MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,VEGFB
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.51	0.25	MMP9,TNF
G Beta Gamma Signaling	1.51	0.074	CACNA1F,MAPK3,PAK1,PRKACB,PRKCE,PRKCH,PRKD3,RALB,RRAS
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	1.46	0.065	ALB,APOM,ARG2,MAP3K5,MAPK3,PRKCE,PRKCH,PRKD3,RHOBTB2,TNF,TNFRSF1A,TNFRSF1B
FXR/RXR Activation	1.45	0.072	ABCB11,ABCG5,ABCG8,ALB,APOM,CYP27A1,SERPINF2,SLC10A1,TNF
IL-6 Signaling	1.45	0.072	CD14,CSNK2B,MAPK3,RALB,RRAS,TNF,TNFRSF1A,TNFRSF1B,TRAF2
Glutamine Biosynthesis I	1.45	1	GLUL
PTEN Signaling	1.43	0.071	CBL,CSNK2B,FGFR3,INPPL1,INSR,MAPK3,RALB,RPS6KB2,RRAS
Tight Junction Signaling	1.42	0.066	AFDN,CLDN2,MYH14,MYL7,NSF,PRKACB,STX4,TNF,TNFRSF1A,TNFRSF1B,VTI1B
Ceramide Signaling	1.42	0.08	CTSD,MAPK3,RALB,RRAS,TNF,TNFRSF1A,TNFRSF1B
Crosstalk between Dendritic Cells and Natural Killer Cells	1.39	0.079	CD209,KLRD1,LTA,LTB,NCR3,TNF,TNFRSF1B
Lymphotoxin β Receptor Signaling	1.39	0.094	BIRC2,LTA,LTB,MAPK3,TRAF2
IL-15 Signaling	1.38	0.085	MAPK3,RALB,RRAS,STAT5B,SYK,TNF
Glioma Signaling	1.38	0.073	E2F4,EGF,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS
Neuroprotective Role of THOP1 in Alzheimer's Disease	1.38	0.073	CFD,DPP4,F7,KLK3,MMP9,PRKACB,PRSS36,ST14
GNRH Signaling	1.37	0.065	CACNA1F,MAP3K5,MAPK3,PAK1,PAK6,PRKACB,PRKCE,PRKCH,PRKD3,RALB,RRAS

Non-Survivors

Down regulated

Day 1 vs. Control

Inguenuity Canonical Pathways	-log(p-value)	Ratio	Molecules
Glucocorticoid Receptor Signaling	4.57	0.084	A2M,AKT2,ARID2,CCL2,CD3E,CREB1,CREBZF,CSN2,ESR1,GTF2B,GTF2H2,HSP90B1,HSPA14,KRT85,MAPK9,MNAT1,NFKB1,NFKBID,NR3C2,PIK3C2A,PIK3R4,POLR2H,POU2F1,POU2F2,PTGS2,RASD1
Huntington's Disease Signaling	3.97	0.09	AKT2,CASP8,CASP9,CREB1,DNM1L,GNA11,GNB1,HDAC1,HSPA14,MAPK9,NAPA,PENK,PIK3C2A,PIK3R4,POLR2H,PSME1,PSME2,PSMF1,RPH3A,SP1,TP53
Small Cell Lung Cancer Signaling	3.69	0.141	AKT2,CASP9,NFKB1,NFKBID,NOS1,PIK3C2A,PIK3R4,PTGS2,RXRB,TP53
Apelin Endothelial Signaling Pathway	3.66	0.114	ADCY8,AKT2,APLNR,CAMK4,CCL2,GNA11,MAPK9,MEF2C,NFKB1,PIK3C2A,PIK3R4,RASD1,SP1
GP6 Signaling Pathway	3.59	0.112	AKT2,CAMK4,COL11A2,COL16A1,COL4A3,COL4A4,COL6A3,COL6A5,LAMB3,LAMC2,NOX1,PIK3C2A,PIK3R4
Adrenomedullin signaling pathway	3.26	0.089	ADCY8,AKT2,CAMK4,CFH,GNA11,GPR182,GUCY1A2,KCNH2,KCNN1,MAPK9,NFKB1,PIK3C2A,PIK3R4,RASD1,RXRB,SLC39A7,TTN
Role of IL-17A in Arthritis	3.21	0.148	CCL2,IL17RC,MAPK9,NFKB1,NFKBID,PIK3C2A,PIK3R4,PTGS2
BAG2 Signaling Pathway	3.18	0.167	HSPA14,NFKB1,PSME1,PSME2,PSMF1,SP1,TP53
PEDF Signaling	3.17	0.122	AKT2,CASP8,CFLAR,NFKB1,NFKBID,PIK3C2A,PIK3R4,RASD1,TCF12,TP53
Estrogen-Dependent Breast Cancer Signaling	2.94	0.123	AKT2,CREB1,DHRS11,ESR1,NFKB1,PIK3C2A,PIK3R4,RASD1,SP1
Prostate Cancer Signaling	2.89	0.112	AKT2,CASP9,CREB1,HSP90B1,NFKB1,NFKBID,PIK3C2A,PIK3R4,RASD1,TP53
Superpathway of Methionine Degradation	2.86	0.171	AHCYL1,BHMT2,MAT1A,MCEE,PCCA,PRMT1
Gluconeogenesis I	2.77	0.2	ALDOA,BPGM,GAPDH,MDH1,ME3
B Cell Receptor Signaling	2.68	0.083	AKT2,CAMK2G,CAMK4,CREB1,ETS1,MAPK9,MEF2C,NFKB1,NFKBID,PIK3AP1,PIK3C2A,PIK3R4,POU2F2,RASD1,VAV3
Myc Mediated Apoptosis Signaling	2.67	0.123	AKT2,CASP8,CASP9,MAPK9,PIK3C2A,PIK3R4,RASD1,TP53
IL-17 Signaling	2.66	0.113	AKT2,CCL2,IL17RC,MAPK9,NFKB1,PIK3C2A,PIK3R4,PTGS2,RASD1
Relaxin Signaling	2.64	0.089	ADCY8,AKT2,CREB1,GNA11,GNB1,GUCY1A2,NFKB1,NFKBID,PDE12,PDE8A,PIK3C2A,PIK3R4,SLC39A7
Molecular Mechanisms of Cancer Role of PKR in Interferon Induction and Antiviral Response	2.52	0.065	ADCY8,AKT2,ATM,BMP1,BMPR1B,CAMK2G,CASP8,CASP9,CDC25A,CDK11B,CFLAR,DAXX,GNA11,HAT1,MAPK9,NFKB1,NFKBID,PIK3C2A,PIK3R4,PSEN2,RASD1,SMAD2,SMO,TP53,WNT2B
eNOS Signaling	2.49	0.086	ADCY8,AKT2,CAMK4,CASP8,CASP9,CHRNA10,ESR1,GUCY1A2,HSP90B1,HSPA14,PIK3C2A,PIK3R4,VEGFD
Heme Biosynthesis II	2.49	0.333	ALAD,PPOX,UROS
Sumoylation Pathway	2.48	0.099	DAXX,ETS1,HDAC1,KDM1A,MAPK9,NFKB1,SP1,TDG,TP53,ZNF217
Telomerase Signaling	2.39	0.096	AKT2,ETS1,HDAC1,HSP90B1,IL2RA,PIK3C2A,PIK3R4,RASD1,SP1,TP53
Glycine Betaine Degradation	2.34	0.3	BHMT2,SARDH,SDS
Pancreatic Adenocarcinoma Signaling	2.27	0.093	AKT2,CASP9,MAPK9,NFKB1,PIK3C2A,PIK3R4,PTGS2,SMAD2,TP53,VEGFD
Induction of Apoptosis by HIV1	2.27	0.117	CASP8,CASP9,DAXX,MAPK9,NFKB1,NFKBID,TP53
Endometrial Cancer Signaling	2.27	0.117	AKT2,APC2,CASP9,PIK3C2A,PIK3R4,RASD1,TP53
HIF1α Signaling	2.19	0.09	AKT2,MAPK9,MMP27,NOS1,PIK3C2A,PIK3R4,RASD1,SLC2A8,TP53,VEGFD
Methylmalonyl Pathway	2.14	0.5	MCEE,PCCA
ATM Signaling	2.13	0.094	ATM,CDC25A,CREB1,GADD45B,MAPK9,TDP1,TLK2,TP53,TP53
IL-17A Signaling in Airway Cells	2.11	0.109	AKT2,IL17RC,MAPK9,NFKB1,NFKBID,PIK3C2A,PIK3R4
NF-κB Activation by Viruses	2.05	0.098	AKT2,ITGA6,ITGAV,NFKB1,NFKBID,PIK3C2A,PIK3R4,RASD1
Role of NANOG in Mammalian Embryonic Stem Cell Pluripotency	2.03	0.086	AKT2,BMP1,BMPR1B,GATA6,PIK3C2A,PIK3R4,RASD1,SMO,TP53,WNT2B
Hereditary Breast Cancer Signaling	1.99	0.08	AKT2,ARID2,ATM,GADD45B,HDAC1,PIK3C2A,PIK3R4,POLR2H,RASD1,TP53,XPC
HER-2 Signaling in Breast Cancer	1.99	0.095	AKT2,CASP9,ITGB6,ITGB8,PIK3C2A,PIK3R4,RASD1,TP53
Docosahexaenoic Acid (DHA) Signaling	1.96	0.132	AKT2,ALOX15,CASP9,PIK3C2A,PIK3R4
HMGB1 Signaling	1.96	0.076	AKT2,CCL2,HAT1,KAT6A,KAT6B,MAPK9,NFKB1,PIK3C2A,PIK3R4,RASD1,SP1,TNFSF8
Lymphotoxin β Receptor Signaling	1.95	0.113	AKT2,CASP9,NFKB1,NFKBID,PIK3C2A,PIK3R4
Tetrapyrrole Biosynthesis II	1.92	0.4	ALAD,UROS
2-oxobutanoate Degradation I	1.92	0.4	MCEE,PCCA
GM-CSF Signaling	1.91	0.1	AKT2,CAMK2G,ETS1,HCK,PIK3C2A,PIK3R4,RASD1
Endothelin-1 Signaling	1.87	0.072	ADCY8,CASP8,CASP9,GNA11,GUCY1A2,MAPK9,NOS1,PIK3C2A,PIK3R4,PLA2G7,PTGS2,RARRES3,RASD1

Regulation of IL-2 Expression in Activated and Anergic T Lymphocytes	1.87	0.091	CAMK4,CD3E,MAPK9,NFKB1,NFKBID,RASD1,SMAD2,VAV3
iCOS-iCOSL Signaling in T Helper Cells	1.86	0.085	AKT2,CAMK2G,CAMK4,CD3E,IL2RA,NFKB1,NFKBID,PIK3C2A,PIK3R4
Non-Small Cell Lung Cancer Signaling	1.82	0.096	AKT2,CASP9,PIK3C2A,PIK3R4,RASD1,RXR,TP53
Colorectal Cancer Metastasis Signaling	1.8	0.065	ADCY8,AKT2,CASP9,GNB1,MAPK9,MMP27,NFKB1,PIK3C2A,PIK3R4,PTGS2,RASD1,SMAD2,SMO,TP53,VEGFD,WNT2B
MIF Regulation of Innate Immunity	1.79	0.119	MAPK9,NFKB1,NFKBID,PTGS2,TP53
Angiopoietin Signaling	1.79	0.095	AKT2,CASP9,NFKB1,NFKBID,PIK3C2A,PIK3R4,RASD1
Antiproliferative Role of Somatostatin Receptor 2	1.79	0.095	GNB1,GUCY1A2,NOS1,PIK3C2A,PIK3R4,RASD1,SLC39A7
Role of p14/p19ARF in Tumor Suppression	1.77	0.143	PIK3C2A,PIK3R4,POLR3D,TP53
Cancer Drug Resistance By Drug Efflux	1.77	0.103	ABCG2,AKT2,NFKB1,PTGS2,RASD1,TP53
Granzyme B Signaling	1.74	0.188	CASP8,CASP9,NUMA1
Apelin Pancreas Signaling Pathway	1.74	0.116	APLNR,MAPK9,NFKB1,PIK3C2A,PIK3R4
Role of MAPK Signaling in the Pathogenesis of Influenza	1.73	0.092	AKT2,CCL2,MAPK9,PLA2G7,PTGS2,RARRES3,RASD1
Nitric Oxide Signaling in the Cardiovascular System	1.71	0.085	AKT2,CACNA1D,CAMK4,GUCY1A2,HSP90B1,PIK3C2A,PIK3R4,VEGFD
Wnt/ β -catenin Signaling	1.71	0.071	AKT2,APC2,APPL2,CSNK2A1,GJA1,HDAC1,KREMEN1,SMO,SOX5,TGFBR3,TP53,WNT2B
RAR Activation	1.7	0.068	ADCY8,AKT2,ARID2,CSNK2A1,GTF2H2,MAPK9,MNAT1,NFKB1,NRIP2,PRMT1,RXR,SDR16C5,SMAD2
Regulation of the Epithelial-Mesenchymal Transition Pathway	1.7	0.068	AKT2,ETS1,FGF10,FRS2,NFKB1,PIK3C2A,PIK3R4,PSEN2,RASD1,SMAD2,SMO,WNT2B,ZEB2
Adipogenesis pathway	1.69	0.076	GTF2H2,HAT1,HDAC1,KAT6A,KAT6B,KDM1A,KLF5,MNAT1,SMO,TP53
Apelin Adipocyte Signaling Pathway	1.67	0.09	ADCY8,APLNR,GNA11,GPX6,MAPK9,NOX1,NOX4
Role of PI3K/AKT Signaling in the Pathogenesis of Influenza	1.67	0.098	AKT2,CASP9,NFKB1,NFKBID,PIK3C2A,PIK3R4
IL-2 Signaling	1.67	0.098	AKT2,CSNK2A1,IL2RA,PIK3C2A,PIK3R4,RASD1
Amyotrophic Lateral Sclerosis Signaling	1.67	0.083	CACNA1D,CASP9,NOS1,PIK3C2A,PIK3R4,SLC1A2,TP53,VEGFD
fMLP Signaling in Neutrophils	1.65	0.078	CAMK4,GNB1,NFKB1,NFKBID,NOX1,NOX4,PIK3C2A,PIK3R4,RASD1
Aldosterone Signaling in Epithelial Cells	1.65	0.071	DNAJC16,HSP90B1,HSPA14,HSPH1,NR3C2,PIK3C2A,PIK3R4,PIKFYVE,SLC12A1,SLC12A2,SMO
Androgen Signaling	1.63	0.074	CACNA1D,CAMK4,GNA11,GNB1,GTF2B,GTF2H2,MNAT1,NFKB1,POLR2H,TAF2
Role of Tissue Factor in Cancer	1.63	0.078	AKT2,GNA11,HCK,ITGA6,ITGAV,PIK3C2A,PIK3R4,RASD1,TP53
FAT10 Cancer Signaling Pathway	1.63	0.109	AKT2,NFKB1,SMAD2,TGFBR3,TP53
Systemic Lupus Erythematosus In T Cell Signaling Pathway	1.63	0.065	AKT2,CAMK4,CASP8,CASP9,CD3E,CREB1,ESR1,HLA-DPA1,NOS1,PIK3C2A,PIK3R4,RASD1,SP1,STIM1
p53 Signaling	1.62	0.082	AKT2,ATM,GADD45B,HDAC1,PIK3C2A,PIK3R4,TP53
NF- κ B Signaling	1.61	0.068	AKT2,BMPR1B,CASP8,CSNK2A1,HDAC1,NFKB1,NFKBID,NTRK3,PIK3C2A,PIK3R4,RASD1,TGFBR3
FAT10 Signaling Pathway	1.6	0.167	PSME1,PSME2,PSMF1
Inhibition of Angiogenesis by TSP1	1.58	0.125	AKT2,GUCY1A2,MAPK9,TP53
CD40 Signaling	1.58	0.094	MAPK9,NFKB1,NFKBID,PIK3C2A,PIK3R4,PTGS2
Ovarian Cancer Signaling	1.58	0.073	AKT2,GJA1,PIK3C2A,PIK3R4,PTGS2,RASD1,SMO,TP53,VEGFD,WNT2B
LPS-stimulated MAPK Signaling	1.56	0.085	CREB1,MAPK9,NFKB1,NFKBID,PIK3C2A,PIK3R4,RASD1
GADD45 Signaling	1.54	0.158	ATM,GADD45B,TP53
DNA damage-induced 14-3-3 σ Signaling	1.54	0.158	AKT2,ATM,TP53
BMP signaling pathway	1.54	0.084	BMP1,BMPR1B,CAMK4,CREB1,MAPK9,NFKB1,RASD1
Antioxidant Action of Vitamin C	1.53	0.078	GLRX,MAPK9,NFKB1,NFKBID,PLA2G7,RARRES3,SLC2A8,TXNRD1

Corticotropin Releasing Hormone Signaling	1.52	0.071	ADCY8,CACNA1D,CAMK4,CREB1,GUCY1A2,MEF2C,NOS1,PTGS2,SLC39A7,SMO
TWEAK Signaling	1.49	0.118	CASP8,CASP9,NFKB1,NFKBID
Neuroinflammation Signaling Pathway	1.49	0.059	AKT2,CASP8,CCL2,CFLAR,CREB1,GJB1,MAPK9,NFKB1,NOX1,NOX4,PIK3C2A,PIK3R4,PSEN2,PTGS2,SLC1A2,TGFBR3,TYROBP
Melanoma Signaling	1.49	0.1	AKT2,PIK3C2A,PIK3R4,RASD1,TP53
Assembly of RNA Polymerase II Complex	1.49	0.1	GTF2B,GTF2H2,MNAT1,POLR2H,TAF2
Methionine Degradation I (to Homocysteine)	1.48	0.15	AHCYL1,MAT1A,PRMT1
CREB Signaling in Neurons	1.48	0.063	ADCY8,AKT2,CACNA1D,CAMK2G,CAMK4,CREB1,GNA11,GNB1,GTF2B,PIK3C2A,PIK3R4,POLR2H,RASD1
Integrin Signaling	1.48	0.063	AKT2,ITGA6,ITGAV,ITGB6,ITGB8,NEDD9,PIK3C2A,PIK3R4,PIKFYVE,RASD1,TNK2,TSPAN5,TTN
RANK Signaling in Osteoclasts	1.47	0.081	AKT2,CAMK4,MAPK9,NFKB1,NFKBID,PIK3C2A,PIK3R4
IL-17A Signaling in Fibroblasts	1.45	0.114	CCL2,IL17RC,NFKB1,NFKBID
Nucleotide Excision Repair Pathway	1.45	0.114	GTF2H2,MNAT1,POLR2H,XPC
Protein Kinase A Signaling	1.45	0.055	ADCY8,AKAP11,AKAP12,AKAP3,ANAPC10,CAMK2G,CAMK4,CDC25A,CREB1,GNB1,NFKB1,NFKBID,PDE12,PDE8A,PPP1R11,PTGS2,PTPDC1,PTPN4,PTPRU,SMO,TTN
IL-6 Signaling	1.45	0.072	A2M,AKT2,CSNK2A1,MAPK9,NFKB1,NFKBID,PIK3C2A,PIK3R4,RASD1
Cardiac Hypertrophy Signaling (Enhanced)	1.45	0.053	ADCY8,AKT2,CACNA1D,CAMK2G,CAMK4,FGF10,GNA11,GNB1,HDAC1,IL17RC,IL2RA,MAPK9,MEF2C,NFKB1,PDE12,PDE8A,PIK3C2A,PIK3R4,PKN1,PTGS2,RASD1,SMO,TGFBR3,TNFSF8,WNT2B
Paxillin Signaling	1.44	0.076	ITGA6,ITGAV,ITGB6,ITGB8,MAPK9,PIK3C2A,PIK3R4,RASD1
PTEN Signaling	1.43	0.071	AKT2,BMPR1B,CASP9,CSNK2A1,MAST2,NFKB1,NTRK3,RASD1,TGFBR3
NAD Salvage Pathway II	1.43	0.143	ACPP,NMNAT2,NT5E
CD27 Signaling in Lymphocytes	1.42	0.096	CASP8,CASP9,MAPK9,NFKB1,NFKBID
Basal Cell Carcinoma Signaling	1.41	0.086	APC2,BMP1,HHIP,SMO,TP53,WNT2B
Glioma Signaling	1.38	0.073	AKT2,CAMK2G,CAMK4,IDH1,PIK3C2A,PIK3R4,RASD1,TP53
Factors Promoting Cardiogenesis in Vertebrates	1.37	0.078	BMP1,BMPR1B,MEF2C,NOX4,SMAD2,SMO,TGFBR3
Polyamine Regulation in Colon Cancer	1.37	0.136	PSME1,PSME2,PSMF1
Cysteine Biosynthesis III (mammalia)	1.37	0.136	AHCYL1,MAT1A,PRMT1

Non-Survivors
Up regulated
Day 1 vs. Control

Ingenuity Canonical Pathways	log(p-value)	Ratio	Molecules
Natural Killer Cell Signaling	3.63	0.12	FCER1G,INPPL1,KLRD1,MAPK3,NCR3,PAK1,PAK6,PRKCE,PRKCH,PRKD3,PTPN6,RALB,RRAS,SYK
Airway Inflammation in Asthma	3.61	0.75	IL13,IL4,TNF
Type II Diabetes Mellitus Signaling	3.32	0.107	CACNA1F,CACNG3,ENPP7,GCK,INSR,MAP3K5,MAPK3,PRKAG3,PRKCE,PRKCH,PRKD3,SLC27A1,TNF,TNFRSF1B,TRAF2
Hepatic Cholestasis	3.1	0.096	ABCB11,ABCG5,ABCG8,CD14,CYP27A1,IL13,IL4,INSR,LTA,PRKACB,PRKCE,PRKCH,PRKD3,SLC10A1,TNF,TNFRSF1B,TRAF2
Fc Epsilon RI Signaling	3.1	0.111	FCER1G,IL13,IL4,INPPL1,LYN,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,SYK,TNF
IL-3 Signaling	2.94	0.127	JAK1,MAPK3,PAK1,PRKCE,PRKCH,PRKD3,PTPN6,RALB,RRAS,STAT5B
Neuregulin Signaling	2.89	0.117	DLG4,EGF,MAPK3,PRKCE,PRKCH,PRKD3,PSEN1,RALB,RPS6KB2,RRAS,STAT5B
Apoptosis Signaling	2.74	0.112	BID,BIRC2,CAPN3,LMNA,MAP3K5,MAPK3,PRKCE,RALB,RRAS,TNF,TNFRSF1B
Opioid Signaling Pathway	2.72	0.082	CACNA1F,CACNG3,CLTCL1,GRIN2A,GRK7,LYN,MAPK3,PLD2,PRKACB,PRKCE,PRKCH,PRKD3,RALB,RGS10,RGS6,RPS6KA4,RPS6KB2,RRAS,RYR2,RYR3
GP6 Signaling Pathway	2.64	0.103	COL11A1,COL18A1,COL4A2,COL9A2,FCER1G,LAMB2,LAMC3,LYN,PRKCE,PRKCH,PRKD3,SYK
Renin-Angiotensin Signaling	2.61	0.103	MAPK3,PAK1,PAK6,PRKACB,PRKCE,PRKCH,PRKD3,PTGER2,PTPN6,RALB,RRAS,TNF
Germ Cell-Sertoli Cell Junction Signaling	2.57	0.09	AFDN,CFL2,CTNNA2,JUP,LAMC3,MAP3K5,MAPK3,PAK1,PAK6,RAB8B,RALB,RHOBTB2,RRAS,TNF,ZYX
Erythropoietin Signaling	2.5	0.118	EPOR,MAPK3,PRKCE,PRKCH,PRKD3,PTPN6,RALB,RRAS,STAT5B
Amyloid Processing	2.46	0.14	BACE2,CAPN3,CSNK2B,MAPK3,PRKACB,PRKCE,PSEN1
Fcy Receptor-mediated Phagocytosis in Macrophages and Monocytes	2.41	0.108	LYN,MAPK3,PAK1,PLD2,PRKCE,PRKCH,PRKD3,RAB11A,RPS6KB2,SYK
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	2.31	0.222	INPP5E,INPPL1,ITPK1,SEC16A
Systemic Lupus Erythematosus In B Cell Signaling Pathway	2.31	0.076	IL13,IL4,INPPL1,IRF5,IRF7,JAK1,LTA,LYN,MAPK3,NFAT5,PRKCE,PRKCH,PRKD3,PTPN6,RALB,RRAS,STAT2,SYK,TNF,TRAF2
LPS-stimulated MAPK Signaling	2.27	0.11	CD14,MAP3K5,MAPK3,PAK1,PRKCE,PRKCH,PRKD3,RALB,RRAS
IL-4 Signaling	2.27	0.11	IL4,INPPL1,JAK1,NFAT5,NR3C1,PTPN6,RALB,RPS6KB2,RRAS
TNFR2 Signaling	2.27	0.172	BIRC2,LTA,TNF,TNFRSF1B,TRAF2
HER-2 Signaling in Breast Cancer	2.21	0.107	CCNE1,CDK6,EGF,MAP3K5,PRKCE,PRKCH,PRKD3,RALB,RRAS
IL-15 Signaling	2.15	0.113	IL4,JAK1,MAPK3,RALB,RRAS,STAT5B,SYK,TNF
Growth Hormone Signaling	2.15	0.113	MAPK3,PRKCE,PRKCH,PRKD3,PTPN6,RPS6KA4,RPS6KB2,STAT5B
Semaphorin Signaling in Neurons	2.14	0.123	CFL2,CRMP1,MAPK3,PAK1,PAK6,RHOBTB2,ROCK2
CCR3 Signaling in Eosinophils	2.07	0.092	CCR3,CFL2,MAPK3,PAK1,PAK6,PRKCE,PRKCH,PRKD3,RALB,ROCK2,RRAS
nNOS Signaling in Neurons	2.02	0.13	CAPN3,DLG4,GRIN2A,PRKCE,PRKCH,PRKD3
Death Receptor Signaling	2.01	0.1	BID,BIRC2,LMNA,MAP3K5,PARP12,TNF,TNFRSF10B,TNFRSF1B,TRAF2
Phagosome Maturation	1.99	0.086	ATP6V1D,CTSA,CTSD,DCTN4,NSF,PRDX5,RILP,SNAP25,VPS11,VPS33B,VPS37C,VTI1B
IL-2 Signaling	1.98	0.115	CSNK2B,JAK1,MAPK3,RALB,RRAS,STAT5B,SYK
Macropinocytosis Signaling	1.97	0.105	CD14,EGF,PAK1,PRKCE,PRKCH,PRKD3,RALB,RRAS
TNFR1 Signaling	1.94	0.125	BID,BIRC2,PAK1,PAK6,TNF,TRAF2
Glioma Signaling	1.93	0.092	CDK6,E2F4,E2F6,EGF,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS
ErbB Signaling	1.92	0.097	EGF,MAPK3,PAK1,PAK6,PRKCE,PRKCH,PRKD3,RALB,RRAS
Tec Kinase Signaling	1.92	0.081	FCER1G,JAK1,LYN,PAK1,PAK6,PRKCE,PRKCH,PRKD3,RHOBTB2,STAT2,STAT5B,TNF,TNFRSF10B
Coagulation System	1.92	0.143	F5,F7,SERPINC1,SERPINF2,VWF
Thrombopoietin Signaling	1.91	0.111	MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,STAT5B
Pyridoxal 5'-phosphate Salvage Pathway	1.87	0.109	CDK6,DMPK,MAK,MAPK3,PAK1,PRKCE,PRKCH
Regulation of Cellular Mechanics by Calpain Protease	1.87	0.109	CAPN3,CCNE1,CDK6,EGF,MAPK3,RALB,RRAS
JAK/Stat Signaling	1.84	0.1	JAK1,MAPK3,PIAS2,PTPN6,RALB,RRAS,STAT2,STAT5B
Prolactin Signaling	1.82	0.099	MAPK3,NR3C1,PRKCE,PRKCH,PRKD3,RALB,RRAS,STAT5B
UVC-Induced MAPK Signaling	1.81	0.118	MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS
ErbB4 Signaling	1.8	0.106	MAPK3,PRKCE,PRKCH,PRKD3,PSEN1,RALB,RRAS
mTOR Signaling	1.79	0.074	EIF3C,EIF4G3,INSR,MAPK3,PLD2,PRKAG3,PRKCE,PRKCH,PRKD3,RALB,RHOBTB2,RPS6KA4,RPS6KB2,RRAS,VEGFB

NF-κB Activation by Viruses	1.79	0.098	ITGA1,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,TRAF2
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	1.78	0.076	ALB,APOM,ARG2,IL4,JAK1,MAP3K5,MAPK3,PRKCE,PRKCH,PRKD3,PTPN6,RHOBTB2,TNF,TNFRSF1B
Phenylalanine Degradation IV (Mammalian, via Side Chain)	1.78	0.214	ALDH2,HPD,IL4I1
Role of JAK1 and JAK3 in γCytokine Signaling	1.77	0.104	IL4,JAK1,MAPK3,RALB,RRAS,STAT5B,SYK
Epithelial Adherens Junction Signaling	1.77	0.08	ACVR2B,AFDN,CLIP1,CTNNA2,EGF,JUP,MYH14,MYL7,RALB,RRAS,TCF4,ZYX
PPAR Signaling	1.71	0.089	AIP,INSR,MAPK3,RALB,RRAS,STAT5B,TNF,TNFRSF1B,TRAF2
Protein Kinase A Signaling	1.7	0.063	ADD1,ADD3,AKAP10,AKAP4,APEX1,FLNB,GRK7,HHAT,MAPK3,MYL7,NFAT5,PRKACB,PRKCE,PRKCH,PRKD3,PTPN22,PTPN23,PTPN6,PTPRK,PYGB,ROCK2,RYR2,RYR3,TCF4
nNOS Signaling in Skeletal Muscle Cells	1.68	0.125	CACNA1F,CACNG3,CAPN3,RYR2,RYR3
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	1.67	0.333	IDO1,KMO
LPS/IL-1 Mediated Inhibition of RXR Function	1.67	0.071	ABCB11,ABCG5,ABCG8,ALDH1A3,ALDH2,CD14,CHST1,IL4I1,PPARGC1B,SLC10A1,SLC27A1,TNF,TNFRSF1B,TRAF2,XPO1
Mechanisms of Viral Exit from Host Cells	1.64	0.122	PRKCE,PRKCH,PRKD3,VPS37C,XPO1
LXR/RXR Activation	1.64	0.083	ABCG5,ABCG8,ALB,APOM,ARG2,CD14,MMP9,SERPINF2,TNF,TNFRSF1B
CNTF Signaling	1.63	0.107	JAK1,MAPK3,RALB,RPS6KA4,RPS6KB2,RRAS
Extrinsic Prothrombin Activation Pathway	1.62	0.188	F5,F7,SERPINC1
G Beta Gamma Signaling	1.62	0.082	CACNA1F,CACNG3,MAPK3,PAK1,PRKACB,PRKCE,PRKCH,PRKD3,RALB,RRAS
NF-κB Signaling	1.61	0.074	CARD10,CSNK2B,EGF,FCER1G,FGFR3,INSR,LTA,PRKACB,RALB,RRAS,TNF,TNFRSF1B,TRAF2
IL-8 Signaling	1.61	0.072	EGF,LASP1,MAPK3,MMP9,MYL7,PLD2,PRKCE,PRKCH,PRKD3,RALB,RHOBTB2,ROCK2,RRAS,VEGFB
Caveolar-mediated Endocytosis Signaling	1.58	0.096	ALB,EGF,FLNB,FLOT2,INSR,ITGA1,ITGA8
Estrogen-Dependent Breast Cancer Signaling	1.58	0.096	HSD17B1,HSD17B11,HSD17B13,MAPK3,RALB,RRAS,STAT5B
Acute Phase Response Signaling	1.58	0.073	ALB,HRG,MAP3K5,MAPK3,NR3C1,RALB,RRAS,SERPINF2,TCF4,TNF,TNFRSF1B,TRAF2,VWF
Ephrin Receptor Signaling	1.58	0.073	CFL2,EFNB3,EGF,EPHA2,GRIN2A,MAPK3,PAK1,PAK6,RALB,ROCK2,RRAS,VEGFB,WIPF1
Virus Entry via Endocytic Pathways	1.57	0.084	AP3S1,CLTCL1,FLNB,ITGA1,PRKCE,PRKCH,PRKD3,RALB,RRAS
Oncostatin M Signaling	1.56	0.116	JAK1,MAPK3,RALB,RRAS,STAT5B
D-myo-inositol (1,4,5)-trisphosphate Degradation	1.55	0.176	INPP5E,INPPL1,SEC16A
Putrescine Degradation III	1.55	0.176	ALDH1A3,ALDH2,IL4I1
Pancreatic Adenocarcinoma Signaling	1.54	0.083	CCNE1,E2F4,E2F6,EGF,JAK1,MAPK3,MMP9,PLD2,VEGFB
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.51	0.071	CD14,COL11A1,COL18A1,COL4A2,COL9A2,EGF,IL4,MMP9,MYH14,MYL7,TNF,TNFRSF1B,VEGFB
CXCR4 Signaling	1.5	0.073	LYN,MAPK3,MYL7,PAK1,PAK6,PRKCE,PRKCH,PRKD3,RALB,RHOBTB2,ROCK2,RRAS
Induction of Apoptosis by HIV1	1.5	0.1	BID,BIRC2,MAP3K5,TNF,TNFRSF1B,TRAF2
α-Adrenergic Signaling	1.49	0.086	MAPK3,PRKACB,PRKCE,PRKCH,PRKD3,PYGB,RALB,RRAS
p70S6K Signaling	1.49	0.078	IL4,JAK1,LYN,MAPK3,PRKCE,PRKCH,PRKD3,RALB,RRAS,SYK
Granulocyte Adhesion and Diapedesis	1.48	0.073	CCL25,CLDN2,CSF3,ITGA1,MMP16,MMP9,SELE,SELL,SELP,THY1,TNF,TNFRSF1B
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	1.48	0.167	CSF3,IL13,TNF
D-myo-inositol (1,3,4)-trisphosphate Biosynthesis	1.48	0.167	INPP5E,INPPL1,SEC16A
FAK Signaling	1.47	0.085	ARHGAP26,CAPN3,EGF,MAPK3,PAK1,PAK6,RALB,RRAS
Nitric Oxide Signaling in the Cardiovascular System	1.47	0.085	ARG2,MAPK3,PRKACB,PRKCE,PRKCH,PRKD3,RYR2,VEGFB
Molecular Mechanisms of Cancer	1.46	0.06	BID,BIRC2,CCNE1,CDK6,CTNNA2,E2F4,E2F6,HHAT,JAK1,MAP3K5,MAPK3,PAK1,PAK6,PRKACB,PRKCE,PRKCH,PRKD3,PTPN6,PTPN22,PTPN23,PTPN6,TPTE2
Tight Junction Signaling	1.45	0.072	AFDN,CLDN2,MARK2,MYH14,MYL7,NSF,PRKACB,SNAP25,STX4,TNF,TNFRSF1B,VTI1B
Integrin Signaling	1.45	0.068	ARHGAP26,BCAR3,CAPN3,ITGA1,ITGA8,MAPK3,MYL7,PAK1,PAK6,RALB,RHOBTB2,RRAS,WIPF1,ZYX
Salvage Pathways of Pyrimidine Ribonucleotides	1.44	0.084	APOBEC3G,CDK6,DMPK,MAK,MAPK3,PAK1,PRKCE,PRKCH
3-phosphoinositide Degradation	1.44	0.074	ACP5,ALPL,EYA4,INPP4B,INPP5E,INPPL1,ITPK1,PTPN22,PTPN23,PTPN6,TPTE2
Iron homeostasis signaling pathway	1.43	0.076	ATP6V1D,CD163,EGF,FBXL5,HSCB,JAK1,MAPK3,SLC11A2,STAT5B,TFR2
Role of JAK2 in Hormone-like Cytokine Signaling	1.43	0.125	EPOR,JAK1,PTPN6,STAT5B
Amyotrophic Lateral Sclerosis Signaling	1.42	0.083	BID,BIRC2,CAPN3,GLUL,GRIN2A,NEFL,PAK1,VEGFB
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.42	0.25	MMP9,TNF
Bladder Cancer Signaling	1.42	0.083	EGF,FGFR3,MAPK3,MMP16,MMP9,RALB,RRAS,VEGFB
PAK Signaling	1.42	0.083	CFL2,MAPK3,MYL7,PAK1,PAK6,RALB,RRAS,TNF
Tryptophan Degradation X (Mammalian, via Tryptamine)	1.42	0.158	ALDH1A3,ALDH2,IL4I1

Apelin Endothelial Signaling Pathway	1.41	0.079	AQP2,MAPK3,PRKAG3,PRKCE,PRKCH,PRKD3,RALB,RPS6KB2,RRAS
Synaptogenesis Signaling Pathway	1.4	0.062	AFDN,CNTNAP1,DLG4,EFNB3,EPHA2,FARP1,GRIN2A,LYN,MAPK3,NSF,PAK1,PRKACB,PRKCE,RALB,RPS6KB2,RRAS,SNAP25,THBS3,VTI1B
Glutamine Biosynthesis I	1.4	1	GLUL
Threonine Degradation II	1.4	1	GCAT
GNRH Signaling	1.4	0.071	CACNA1F,CACNG3,MAP3K5,MAPK3,PAK1,PAK6,PRKACB,PRKCE,PRKCH,PRKD3,RALB,RRAS
Cyclins and Cell Cycle Regulation	1.39	0.088	CCNB3,CCNE1,CDK6,E2F4,E2F6,FBXL5,HDAC6
eNOS Signaling	1.39	0.072	AQP2,AQP3,CHRM4,LPAR5,NOSIP,PRKACB,PRKAG3,PRKCE,PRKCH,PRKD3,VEGFB
Role of Tissue Factor in Cancer	1.37	0.078	CFL2,F7,LYN,MAPK3,PAK1,RALB,RPS6KA4,RRAS,STAT5B

Survivors

Down regulated

Day 2 vs. Control

Ingenuity Canonical Pathways

	-log(p-value)	Ratio	Molecules
Sumoylation Pathway	3.9	0.069	ETS1,HDAC1,KDM1A,MAPK9,NFKB1,TP53,ZNF217
BAG2 Signaling Pathway	2.94	0.095	NFKB1,PSME1,PSMF1,TP53
FAT10 Cancer Signaling Pathway	2.79	0.087	NFKB1,SMAD2,TGFBR3,TP53
Adipogenesis pathway	2.47	0.046	CLOCK,HAT1,HDAC1,KDM1A,SMO,TP53
PCP pathway	2.37	0.067	CELSR1,MAPK9,SMO,WNT2B
MIF Regulation of Innate Immunity	1.96	0.071	MAPK9,NFKB1,TP53
Wnt/ β -catenin Signaling	1.95	0.035	HDAC1,SMO,SOX5,TGFBR3,TP53,WNT2B
Apelin Pancreas Signaling Pathway	1.93	0.07	APLNR,MAPK9,NFKB1
Huntington's Disease Signaling	1.82	0.03	CREB5,HDAC1,MAPK9,PSME1,PSMF1,RPH3A,TP53
Regulation of IL-2 Expression in Activated and Anergic T Lymphocytes	1.79	0.046	CAMK4,MAPK9,NFKB1,SMAD2
FAT10 Signaling Pathway	1.79	0.111	PSME1,PSMF1
Androgen Signaling	1.78	0.037	CACNA1S,CAMK4,GTF2B,NFKB1,SHBG
RAR Activation	1.72	0.031	MAPK9,NFKB1,NRIP2,PRMT1,SMAD2,TNIP1
Phagosome Maturation	1.71	0.036	ATP6VOA4,ATP6V1B1,NOX1,PIKFYVE,VPS16
Adrenomedullin signaling pathway	1.71	0.031	CAMK4,GPR182,KCNN1,MAPK9,NFKB1,TTN
L-DOPA Degradation	1.66	0.5	LRTOMT
Glycine Degradation (Creatine Biosynthesis)	1.66	0.5	GATM
Polyamine Regulation in Colon Cancer	1.62	0.091	PSME1,PSMF1
Integrin Signaling	1.59	0.029	ITGAV,ITGB8,PIKFYVE,TNK2,TSPAN5,TTN
Induction of Apoptosis by HIV1	1.55	0.05	MAPK9,NFKB1,TP53
HOTAIR Regulatory Pathway	1.54	0.032	AGO3,HDAC1,KDM1A,NFKB1,WNT2B
Activation of IRF by Cytosolic Pattern Recognition Receptors	1.53	0.049	ADAR,MAPK9,NFKB1
Wnt/Ca+ pathway	1.53	0.049	CREB5,NFKB1,SMO
IL-17A Signaling in Gastric Cells	1.52	0.08	MAPK9,NFKB1
Pancreatic Adenocarcinoma Signaling	1.5	0.037	MAPK9,NFKB1,SMAD2,TP53
PRPP Biosynthesis I	1.49	0.333	PRPS1
Apelin Liver Signaling Pathway	1.48	0.077	APLNR,MAPK9
NGF Signaling	1.44	0.035	CREB5,MAPK9,NFKB1,TP53
Apelin Endothelial Signaling Pathway	1.43	0.035	APLNR,CAMK4,MAPK9,NFKB1
GNRH Signaling	1.4	0.029	CACNA1S,CAMK4,CREB5,MAPK9,NFKB1

Basal Cell Carcinoma Signaling

1.38 0.043 SMO,TP53,WNT2B

Noradrenaline and Adrenaline Degradation

1.37 0.067 ADH1A,LRTOMT

Survivors

Up regulated

Day 2 v.s. Control

Ingenuity Canonical Pathways

	-log(p-value)	Ratio	Molecules
Natural Killer Cell Signaling	3.66	0.086	FCER1G,INPPL1,MAPK3,NCR3,PAK1,PAK6,PRKCH,PRKD3,RALB,RRAS
Neuregulin Signaling	3.02	0.085	MAPK3,PRKCH,PRKD3,RALB,RPS6KB2,RRAS,STAT5B,TMEFF2
Fc Epsilon RI Signaling	3.01	0.077	FCER1G,IL13,IL4,INPPL1,MAPK3,PRKCH,PRKD3,RALB,RRAS
CCR3 Signaling in Eosinophils	2.94	0.075	CCR3,MAPK3,PAK1,PAK6,PRKCH,PRKD3,RALB,ROCK2,RRAS
IL-3 Signaling	2.81	0.089	MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS,STAT5B
Prolactin Signaling	2.74	0.086	MAPK3,NR3C1,PRKCH,PRKD3,RALB,RRAS,STAT5B
Thrombopoietin Signaling	2.64	0.095	MAPK3,PRKCH,PRKD3,RALB,RRAS,STAT5B
Opioid Signaling Pathway	2.6	0.053	CACNB4,CLTCL1,GRK7,MAPK3,PLD2,PRKACB,PRKCH,PRKD3,RALB,RGS10,RPS6KB2,RRAS,RYR2
Rac Signaling	2.58	0.073	MAPK3,MCF2L,NCKAP1,PAK1,PAK6,PIP5K1B,RALB,RRAS
Airway Inflammation in Asthma	2.57	0.5	IL13,IL4
Germ Cell-Sertoli Cell Junction Signaling	2.49	0.06	AFDN,LAMC3,MAPK3,PAK1,PAK6,RAB8B,RALB,RRAS,TUBA1A,ZYX
Renin-Angiotensin Signaling	2.42	0.068	MAPK3,PAK1,PAK6,PRKACB,PRKCH,PRKD3,RALB,RRAS
α-Adrenergic Signaling	2.4	0.075	MAPK3,PRKACB,PRKCH,PRKD3,PYGB,RALB,RRAS
ErbB Signaling	2.4	0.075	MAPK3,PAK1,PAK6,PRKCH,PRKD3,RALB,RRAS
Protein Kinase A Signaling	2.39	0.044	ADD1,ADD2,AKAP10,AKAP4,FLNB,GRK7,MAPK3,MYL7,PRKACB,PRKCH,PRKD3,PTPN22,PTPN23,PYGB,ROCK2,RYR2,TCF4
Nitric Oxide Signaling in the Cardiovascular System	2.38	0.075	ARG2,MAPK3,PRKACB,PRKCH,PRKD3,RYR2,VEGFB
mTOR Signaling	2.33	0.054	EIF3C,EIF4G3,INSR,MAPK3,PLD2,PRKCH,PRKD3,RALB,RPS6KB2,RRAS,VEGFB
UVC-Induced MAPK Signaling	2.33	0.098	MAPK3,PRKCH,PRKD3,RALB,RRAS
G Beta Gamma Signaling	2.31	0.066	CACNB4,MAPK3,PAK1,PRKACB,PRKCH,PRKD3,RALB,RRAS
Integrin Signaling	2.3	0.054	ARHGAP26,ITGA1,ITGA8,MAPK3,MYL7,PAK1,PAK6,RALB,RRAS,WIPF1,ZYX
Erythropoietin Signaling	2.23	0.079	MAPK3,PRKCH,PRKD3,RALB,RRAS,STAT5B
Agrin Interactions at Neuromuscular Junction	2.23	0.079	ITGA1,MAPK3,PAK1,PAK6,RALB,RRAS
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	2.18	0.333	IDO1,KMO
Renal Cell Carcinoma Signaling	2.18	0.077	FH,MAPK3,PAK1,PAK6,RALB,RRAS
Synaptogenesis Signaling Pathway	2.16	0.046	AFDN,CACNB4,CNTNAP1,EFNB3,FARP1,MAPK3,PAK1,PRKACB,RALB,RPS6KB2,RRAS,SNAP25,VTI1B,YKT6
Tryptophan Degradation X (Mammalian, via Tryptamine)	2.13	0.158	ALDH1A3,DDC,IL4I1
Virus Entry via Endocytic Pathways	2.08	0.065	CLTCL1,FLNB,ITGA1,PRKCH,PRKD3,RALB,RRAS
LPS-stimulated MAPK Signaling	2.07	0.073	MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS
NF-κB Activation by Viruses	2.07	0.073	ITGA1,MAPK3,PRKCH,PRKD3,RALB,RRAS
PEDF Signaling	2.07	0.073	DOCK3,MAPK3,RALB,ROCK2,RRAS,TCF4
IL-4 Signaling	2.07	0.073	IL4,INPPL1,NR3C1,RALB,RPS6KB2,RRAS
Leukocyte Extravasation Signaling	2.04	0.052	AFDN,ARHGAP35,CLDN2,ITGA1,MMP9,PRKCH,PRKD3,ROCK2,THY1,WIPF1
CXCR4 Signaling	2.03	0.055	MAPK3,MYL7,PAK1,PAK6,PRKCH,PRKD3,RALB,ROCK2,RRAS
VEGF Family Ligand-Receptor Interactions	2.02	0.071	MAPK3,PRKCH,PRKD3,RALB,RRAS,VEGFB
IL-8 Signaling	2.01	0.051	MAPK3,MMP9,MYL7,PLD2,PRKCH,PRKD3,RALB,ROCK2,RRAS,VEGFB
IL-2 Signaling	2	0.082	CSNK2B,MAPK3,RALB,RRAS,STAT5B
Ovarian Cancer Signaling	2	0.058	MAPK3,MMP9,PRKACB,RALB,RPS6KB2,RRAS,TCF4,VEGFB
Phagosome Maturation	1.96	0.057	CTSA,CTSD,SNAP25,TUBA1A,VPS11,VPS33B,VTI1B,YKT6
Breast Cancer Regulation by Stathmin1	1.95	0.05	CCNE1,MAPK3,PAK1,PRKACB,PRKCH,PRKD3,RALB,ROCK2,RRAS,TUBA1A
GNRH Signaling	1.94	0.053	CACNB4,MAPK3,PAK1,PAK6,PRKACB,PRKCH,PRKD3,RALB,RRAS
Acute Myeloid Leukemia Signaling	1.93	0.068	MAPK3,RALB,RPS6KB2,RRAS,STAT5B,TCF4
Axonal Guidance Signaling	1.89	0.039	EFNB3,MAPK3,MMP9,MYL7,NTNG1,PAK1,PAK6,PLXNC1,PRKACB,PRKCH,PRKD3,RALB,ROCK2,RRAS,SEMA4B,TUBA1A,VEGFB,WIPF1
Oncostatin M Signaling	1.87	0.093	MAPK3,RALB,RRAS,STAT5B
ErbB4 Signaling	1.86	0.076	MAPK3,PRKCH,PRKD3,RALB,RRAS
TCA Cycle II (Eukaryotic)	1.84	0.125	ACO1,CS,FH
Role of JAK1 and JAK3 in γC Cytokine Signaling	1.84	0.075	IL4,MAPK3,RALB,RRAS,STAT5B

Hepatic Cholestasis	1.82	0.051	ABCB11,ABCG5,IL13,IL4,INSR,PRKACB,PRKCH,PRKD3,SLC10A1
Fcy Receptor-mediated Phagocytosis in Macrophages and Monocytes	1.82	0.065	MAPK3,PAK1,PLD2,PRKCH,PRKD3,RPS6KB2
Ephrin Receptor Signaling	1.82	0.051	EFNB3,MAPK3,PAK1,PAK6,RALB,ROCK2,RRAS,VEGFB,WIPF1
FAK Signaling	1.8	0.064	ARHGAP26,MAPK3,PAK1,PAK6,RALB,RRAS
Epithelial Adherens Junction Signaling	1.79	0.053	ACVR2B,AFDN,MYL7,RALB,RRAS,TCF4,TUBA1A,ZYX
Actin Cytoskeleton Signaling	1.76	0.047	ARHGAP35,MAPK3,MYL7,NCKAP1,PAK1,PAK6,PIP5K1B,RALB,ROCK2,RRAS
PAK Signaling	1.76	0.063	MAPK3,MYL7,PAK1,PAK6,RALB,RRAS
IL-15 Signaling	1.74	0.07	IL4,MAPK3,RALB,RRAS,STAT5B
Growth Hormone Signaling	1.74	0.07	MAPK3,PRKCH,PRKD3,RPS6KB2,STAT5B
PTEN Signaling	1.71	0.056	CSNK2B,INPPL1,INSR,MAPK3,RALB,RPS6KB2,RRAS
Glutamine Biosynthesis I	1.67	1	GLUL
Angiotensin Signaling	1.67	0.068	PAK1,PAK6,RALB,RRAS,STAT5B
PPAR Signaling	1.66	0.059	AIP,INSR,MAPK3,RALB,RRAS,STAT5B
Thyroid Cancer Signaling	1.65	0.08	MAPK3,RALB,RRAS,TCF4
Amyloid Processing	1.65	0.08	BACE2,CSNK2B,MAPK3,PRKACB
Macropinocytosis Signaling	1.62	0.066	PAK1,PRKCH,PRKD3,RALB,RRAS
IGF-1 Signaling	1.6	0.058	CSNK2B,MAPK3,PRKACB,RALB,RPS6KB2,RRAS
Chemokine Signaling	1.6	0.065	CCR3,MAPK3,RALB,ROCK2,RRAS
NAD biosynthesis II (from tryptophan)	1.58	0.167	IDO1,KMO
Granulocyte Adhesion and Diapedesis	1.57	0.049	CCL25,CLDN2,ITGA1,MMP9,SELE,SELL,SELP,THY1
Insulin Receptor Signaling	1.57	0.052	INPPL1,INSR,MAPK3,PRKACB,RALB,RPS6KB2,RRAS
Paxillin Signaling	1.57	0.057	ITGA1,ITGA8,PAK1,PAK6,RALB,RRAS
Autophagy	1.57	0.076	CTSA,CTSD,VPS11,VPS33B
FLT3 Signaling in Hematopoietic Progenitor Cells	1.56	0.063	MAPK3,RALB,RRAS,STAT2,STAT5B
JAK/Stat Signaling	1.54	0.063	MAPK3,RALB,RRAS,STAT2,STAT5B
Neuroprotective Role of THOP1 in Alzheimer's Disease	1.52	0.055	CFD,DPP4,F7,MMP9,PRKACB,ST14
HGF Signaling	1.5	0.055	MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS
CNTF Signaling	1.49	0.071	MAPK3,RALB,RPS6KB2,RRAS
BMP signaling pathway	1.48	0.06	CHRD,MAPK3,PRKACB,RALB,RRAS
Semaphorin Signaling in Neurons	1.47	0.07	MAPK3,PAK1,PAK6,ROCK2
HER-2 Signaling in Breast Cancer	1.46	0.06	CCNE1,PRKCH,PRKD3,RALB,RRAS
Apelin Endothelial Signaling Pathway	1.44	0.053	MAPK3,PRKCH,PRKD3,RALB,RPS6KB2,RRAS
Agranulocyte Adhesion and Diapedesis	1.43	0.046	CCL25,CLDN2,ITGA1,MMP9,MYL7,SELE,SELL,SELP
PDGF Signaling	1.42	0.058	CSNK2B,INPPL1,MAPK3,RALB,RRAS
PPAR α /RXR α Activation	1.41	0.045	ACVR2B,AIP,INSR,MAPK3,PRKACB,RALB,RRAS,STAT5B
Role of Tissue Factor in Cancer	1.4	0.052	F7,MAPK3,PAK1,RALB,RRAS,STAT5B
Cholecystokinin/Gastrin-mediated Signaling	1.39	0.051	MAPK3,PRKCH,PRKD3,RALB,ROCK2,RRAS
Regulation of Actin-based Motility by Rho	1.38	0.057	MYL7,PAK1,PAK6,PIP5K1B,WIPF1
Sertoli Cell-Sertoli Cell Junction Signaling	1.37	0.044	AFDN,CLDN2,MAPK3,PRKACB,RAB8B,RALB,RRAS,TUBA1A
3-phosphoinositide Degradation	1.37	0.047	ALPL,EYA4,INPP4B,INPPL1,PTPN22,PTPN23,THTPA
Putrescine Biosynthesis III	1.37	0.5	AZIN2

Non-Survivors**Down regulated****Day 2 vs. Control**

Ingenuity Canonical Pathways	-log(p-value)	Ratio	Molecules
Sumoylation Pathway	3.28	0.089	DAXX,ETS1,HDAC1,KDM1A,MAPK9,NFKB1,TDG,UBE2I,ZNF217
Rac Signaling	2.41	0.073	CYBB,ELK4,NFKB1,NOX1,NOX4,PIKFYVE,PLD1,RASD1
Integrin Signaling	2.1	0.054	ARF6,ARHGEF7,ITGA6,ITGB6,ITGB8,NEDD9,PIKFYVE,RASD1,TNK2,TSPAN5,TTN
Apelin Adipocyte Signaling Pathway	2.04	0.077	APLNR,CYBB,GNA11,MAPK9,NOX1,NOX4
Glucocorticoid Receptor Signaling	1.98	0.045	A2M,ARID2,CREB1,CSN2,ESR1,GTF2B,HSPA14,KRT76,MAPK9,NFKB1,POLR2H,PTGS2,RASD1,SMAD2,UBE2I
Paxillin Signaling	1.95	0.066	ARF6,ARHGEF7,ITGA6,ITGB6,ITGB8,MAPK9,RASD1
NAD Salvage Pathway II	1.93	0.143	ACPP,NMNAT2,NT5E
PCP pathway	1.92	0.083	CELSR1,MAPK9,RSPO3,SMO,WNT2B
Cardiac Hypertrophy Signaling (Enhanced)	1.85	0.04	CACNA1S,CAMK2G,CAMK4,CYBB,GNA11,HDAC1,IL2RA,MAP3K20,MAPK9,MEF2C,NFKB1,PDE12,PKN1,PTGS2,RASD1,SMO,TGFBR3,TNFSF8,WNT2B
BAG2 Signaling Pathway	1.81	0.095	HSPA14,NFKB1,PSME1,PSME2
Apelin Endothelial Signaling Pathway	1.79	0.061	APLNR,CAMK4,GNA11,MAPK9,MEF2C,NFKB1,RASD1
Stearate Biosynthesis I (Animals)	1.74	0.091	DHRS11,GNPAT,LIPT2,SRD5A3
Glycine Betaine Degradation	1.68	0.2	SARDH,SDS
Signaling by Rho Family GTPases	1.63	0.046	ARHGEF7,CYBB,GNA11,MAP3K20,MAPK9,NFKB1,NOX1,NOX4,PIKFYVE,PKN1,PLD1
Estrogen-Dependent Breast Cancer Signaling	1.58	0.069	CREB1,DHRS11,ESR1,NFKB1,RASD1
Sonic Hedgehog Signaling	1.55	0.103	DYRK1B,HHIP,SMO
Guanosine Nucleotides Degradation III	1.53	0.167	ACPP,NT5E
Urate Biosynthesis/Inosine 5'-phosphate Degradation	1.46	0.154	ACPP,NT5E
Cell Cycle Control of Chromosomal Replication	1.4	0.071	CDK11B,MCM2,MCM9,TOP2A
BMP signaling pathway	1.38	0.06	CAMK4,CREB1,MAPK9,NFKB1,RASD1
GNRH Signaling	1.37	0.047	CACNA1S,CAMK2G,CAMK4,CREB1,GNA11,MAPK9,NFKB1,RASD1
Wnt/ β -catenin Signaling	1.37	0.047	APPL2,HDAC1,KREMEN1,PPP2R1B,SMO,SOX5,TGFBR3,WNT2B
Phagosome Maturation	1.37	0.05	ATP6V1B1,CYBB,NOS1,NOX1,NOX4,PIKFYVE,VPS16

Non-Survivors

Up regulated

Day 2 vs. Control

Ingenuity Canonical Pathways	-log(p-value)	Ratio	Molecules
LXR/RXR Activation	3.92	0.107	ABCG5,ABCG8,ALB,APOA1,APOA2,APOM,ARG2,CD14,LDLR,MMP9,SERPINF2,TNF,TNFRSF1B
Airway Inflammation in Asthma	3.91	0.75	IL13,IL4,TNF
Natural Killer Cell Signaling	3.48	0.103	FCER1G,INPPL1,KLRD1,MAPK3,NCR3,PAK1,PAK6,PRKCH,PRKD3,PTPN6,RALB,RRAS
Neuregulin Signaling	3.11	0.106	ITGB1,MAPK3,NRG3,PRKCH,PRKD3,PTPN6,RALB,RRAS,STAT5B,TMEFF2
Renin-Angiotensin Signaling	2.92	0.094	MAPK3,PAK1,PAK6,PRKACB,PRKCH,PRKD3,PTGER2,PTPN6,RALB,RRAS,TNF
Hepatic Cholestasis	2.79	0.079	ABCB11,ABCG5,ABCG8,CD14,CYP27A1,IL13,IL4,INSR,PRKACB,PRKCH,PRKD3,SLC10A1,TNF,TNFRSF1B
Type II Diabetes Mellitus Signaling	2.78	0.086	CACNA1A,CACNA1F,CACNB4,GCK,INSR,MAP3K5,MAPK3,PRKAG3,PRKCH,PRKD3,TNF,TNFRSF1B
Opioid Signaling Pathway	2.69	0.07	CACNA1A,CACNA1F,CACNB4,CLTCL1,GRK7,MAPK3,MAPK7,PLD2,PRKACB,PRKCH,PRKD3,RALB,RGS10,RGS6,RPS6KA4,RRAS,RYR2
FXR/RXR Activation	2.69	0.088	ABCB11,ABCG5,ABCG8,ALB,APOA1,APOA2,APOM,CYP27A1,SERPINF2,SLC10A1,TNF
Germ Cell-Sertoli Cell Junction Signaling	2.62	0.078	CTNNA2,ITGB1,LAMC3,MAP3K5,MAPK3,PAK1,PAK6,RAB8B,RALB,RRAS,TNF,TUBA1A,ZYX
Agrin Interactions at Neuromuscular Junction	2.57	0.105	ITGA1,ITGB1,MAPK3,NRG3,PAK1,PAK6,RALB,RRAS
GNRH Signaling	2.53	0.077	CACNA1A,CACNA1F,CACNB4,MAP3K5,MAPK3,MAPK7,PAK1,PAK6,PRKACB,PRKCH,PRKD3,RALB,RRAS
PAK Signaling	2.47	0.094	ITGB1,MAPK3,MYL4,MYL7,PAK1,PAK6,RALB,RRAS,TNF
IL-3 Signaling	2.46	0.101	MAPK3,PAK1,PRKCH,PRKD3,PTPN6,RALB,RRAS,STAT5B
Fc Epsilon RI Signaling	2.4	0.086	FCER1G,IL13,IL4,INPPL1,MAPK3,PRKCH,PRKD3,RALB,RRAS,TNF
LPS-stimulated MAPK Signaling	2.36	0.098	CD14,MAP3K5,MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS
PPAR α /RXR α Activation	2.36	0.073	ACVR2B,AIP,APOA1,APOA2,INSR,MAPK3,MED24,PRKACB,PRKAG3,RALB,RRAS,STAT5B,TGS1
Acute Phase Response Signaling	2.36	0.073	ALB,APOA1,APOA2,MAP3K5,MAPK3,NR3C1,RALB,RRAS,SERPINF2,TCF4,TNF,TNFRSF1B,VWF
Coagulation System	2.34	0.143	F11,F5,F7,SERPINF2,VWF
ErbB4 Signaling	2.33	0.106	MAPK3,NRG3,PRKCH,PRKD3,PTPN6,RALB,RRAS
G Beta Gamma Signaling	2.27	0.082	CACNA1A,CACNA1F,CACNB4,MAPK3,PAK1,PRKACB,PRKCH,PRKD3,RALB,RRAS
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	2.22	0.07	ALB,APOA1,APOA2,APOM,ARG2,IL4,MAP3K5,MAPK3,PRKCH,PRKD3,PTPN6,TNF,TNFRSF1B
IL-12 Signaling and Production in Macrophages	2.08	0.077	ALB,APOA1,APOA2,APOM,IL4,MAPK3,MST1R,PRKCH,PRKD3,TNF
Semaphorin Signaling in Neurons	2.05	0.105	CRMP1,ITGB1,MAPK3,PAK1,PAK6,ROCK2
ErbB Signaling	2.04	0.086	MAPK3,NRG3,PAK1,PAK6,PRKCH,PRKD3,RALB,RRAS
Nitric Oxide Signaling in the Cardiovascular System	2.01	0.085	ARG2,CACNA1A,MAPK3,PRKACB,PRKCH,PRKD3,RYR2,VEGFB
Erythropoietin Signaling	2	0.092	MAPK3,PRKCH,PRKD3,PTPN6,RALB,RRAS,STAT5B
Macropinocytosis Signaling	2	0.092	CD14,ITGB1,PAK1,PRKCH,PRKD3,RALB,RRAS
mTOR Signaling	1.9	0.064	EIF3C,EIF4G3,INSR,MAPK3,MAPKAP1,PLD2,PRKAG3,PRKCH,PRKD3,RALB,RPS6KA4,RRAS,VEGFB
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.88	0.066	CD14,COL11A1,COL4A2,COL9A2,IL4,LEPR,MMP9,MYL4,MYL7,TNF,TNFRSF1B,VEGFB
JAK/Stat Signaling	1.88	0.088	MAPK3,PIAS2,PTPN6,RALB,RRAS,STAT2,STAT5B
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	1.86	0.333	IDO1,KMO
Prolactin Signaling	1.85	0.086	MAPK3,NR3C1,PRKCH,PRKD3,RALB,RRAS,STAT5B
Thrombopoietin Signaling	1.84	0.095	MAPK3,PRKCH,PRKD3,RALB,RRAS,STAT5B
Atherosclerosis Signaling	1.83	0.074	ALB,AOX15B,APOA1,APOA2,APOM,MMP9,SELE,SELP,TNF
PPAR Signaling	1.83	0.079	AIP,INSR,MAPK3,RALB,RRAS,STAT5B,TNF,TNFRSF1B
Osteoarthritis Pathway	1.83	0.063	ACVRL1,ALPL,CNMD,CTNNA2,ITGB1,MMP9,NAMPT,PRKAG3,SPHK1,TCF4,TNF,TNFRSF1B,VEGFB
NF- κ B Activation by Viruses	1.82	0.085	ITGA1,ITGB1,MAPK3,PRKCH,PRKD3,RALB,RRAS
D-myo-inositol (1,4,5)-trisphosphate Degradation	1.81	0.176	INPP5E,INPPL1,SEC16A
Granulocyte Adhesion and Diapedesis	1.8	0.067	CLDN2,ITGA1,ITGB1,MMP16,MMP9,SELE,SELL,SELP,THY1,TNF,TNFRSF1B
HER-2 Signaling in Breast Cancer	1.77	0.083	CCNE1,ITGB1,MAP3K5,PRKCH,PRKD3,RALB,RRAS
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	1.74	0.167	INPP5E,INPPL1,SEC16A
D-myo-inositol (1,3,4)-trisphosphate Biosynthesis	1.74	0.167	INPP5E,INPPL1,SEC16A
Superpathway of Inositol Phosphate Compounds	1.73	0.063	ALPL,EYA4,INPP5E,INPPL1,IP6K1,MTMR8,PI4K2B,PTPN22,PTPN23,PTPN6,SEC16A,THTPA

Glucose and Glucose-1-phosphate Degradation	1.73	0.286	GCK,RGN
Leukocyte Extravasation Signaling	1.7	0.062	ARHGAP35,CLDN2,CTNNA2,ITGA1,ITGB1,MMP16,MMP9,PRKCH,PRKD3,ROCK2,THY1,WIPF1
3-phosphoinositide Degradation	1.7	0.067	ALPL,EYA4,INPP4B,INPP5E,INPPL1,MTMR8,PTPN22,PTPN23,PTPN6,THTPA
Virus Entry via Endocytic Pathways	1.69	0.075	CLTCL1,FLNB,ITGA1,ITGB1,PRKCH,PRKD3,RALB,RRAS
Amyloid Processing	1.69	0.1	BACE2,CSNK2B,MAPK3,PRKACB,PSEN1
Tryptophan Degradation X (Mammalian, via Tryptamine)	1.68	0.158	ALDH1A3,DDC,IL4I1
Ceramide Signaling	1.67	0.08	CTSD,MAPK3,RALB,RRAS,SPHK1,TNF,TNFRSF1B
UVC-Induced MAPK Signaling	1.66	0.098	MAPK3,PRKCH,PRKD3,RALB,RRAS
HGF Signaling	1.63	0.073	ITGB1,MAP3K5,MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS
Rac Signaling	1.63	0.073	ITGB1,MAPK3,MCF2L,NCKAP1,PAK1,PAK6,RALB,RRAS
Maturity Onset Diabetes of Young (MODY) Signaling	1.62	0.15	CACNA1A,GCK,INSR
Agranulocyte Adhesion and Diapedesis	1.61	0.063	CLDN2,ITGA1,ITGB1,MMP16,MMP9,MYL4,MYL7,SELE,SELL,SELP,TNF
Axonal Guidance Signaling	1.61	0.049	EFNB3,EPHA2,ITGB1,MAPK3,MMP16,MMP9,MYL4,MYL7,NTNG1,PAK1,PAK6,PAPPA,PLXNC1,PRKACB,PRKCH,PRKD3,RALB,ROCK2,RRAS,SEMA4B,TUBA1A,VEGFB,WIPF1
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.61	0.25	MMP9,TNF
IL-15 Signaling	1.61	0.085	IL4,MAPK3,RALB,RRAS,STAT5B,TNF
Growth Hormone Signaling	1.61	0.085	MAPK3,PRKCH,PRKD3,PTPN6,RPS6KA4,STAT5B
Ephrin Receptor Signaling	1.58	0.062	EFNB3,EPHA2,ITGB1,MAPK3,PAK1,PAK6,RALB,ROCK2,RRAS,VEGFB,WIPF1
Caveolar-mediated Endocytosis Signaling	1.56	0.082	ALB,FLNB,INSR,ITGA1,ITGA8,ITGB1
α -Adrenergic Signaling	1.55	0.075	MAPK3,PRKACB,PRKCH,PRKD3,PYGB,RALB,RRAS
Sertoli Cell-Sertoli Cell Junction Signaling	1.53	0.061	CLDN2,CTNNA2,ITGB1,MAP3K5,MAPK3,PRKACB,RAB8B,RALB,RRAS,TNF,TUBA1A
FAK Signaling	1.53	0.075	ARHGAP26,ITGB1,MAPK3,PAK1,PAK6,RALB,RRAS
Integrin Signaling	1.52	0.059	ARHGAP26,ITGA1,ITGA8,ITGB1,MAPK3,MYL7,PAK1,PAK6,RALB,RRAS,WIPF1,ZYX
Role of Tissue Factor in Cancer	1.51	0.069	F7,ITGB1,MAPK3,PAK1,RALB,RPS6KA4,RRAS,STAT5B
Salvage Pathways of Pyrimidine Ribonucleotides	1.51	0.074	DAPK1,MAPK3,MAPK7,NME7,PAK1,PRKCH,UCK1
Glutamine Biosynthesis I	1.5	1	GLUL
Threonine Degradation II	1.5	1	GCAT
Cholecystokinin/Gastrin-mediated Signaling	1.49	0.068	MAPK3,MAPK7,PRKCH,PRKD3,RALB,ROCK2,RRAS,TNF
Bladder Cancer Signaling	1.49	0.073	DAPK1,MAPK3,MMP16,MMP9,RALB,RRAS,VEGFB
Superpathway of D-myo-inositol (1,4,5)-trisphosphate Metabolism	1.46	0.13	INPP5E,INPPL1,SEC16A
Apoptosis Signaling	1.45	0.071	BID,MAP3K5,MAPK3,RALB,RRAS,TNF,TNFRSF1B
CXCR4 Signaling	1.45	0.061	MAPK3,MYL4,MYL7,PAK1,PAK6,PRKCH,PRKD3,RALB,ROCK2,RRAS
Protein Kinase A Signaling	1.44	0.05	ADD1,AKAP10,AKAP4,FLNB,GRK7,MAPK3,MYL4,MYL7,PRKACB,PRKCH,PRKD3,PTPN22,PTPN23,PTPN6,PTPRK,PYGB,ROCK2,RYR2,TCF4
CCR3 Signaling in Eosinophils	1.44	0.067	MAPK3,PAK1,PAK6,PRKCH,PRKD3,RALB,ROCK2,RRAS
nNOS Signaling in Skeletal Muscle Cells	1.43	0.1	CACNA1A,CACNA1F,CACNB4,RYR2
Actin Cytoskeleton Signaling	1.41	0.056	ARHGAP35,CD14,ITGB1,MAPK3,MYL4,MYL7,NCKAP1,PAK1,PAK6,RALB,ROCK2,RRAS
FLT3 Signaling in Hematopoietic Progenitor Cells	1.41	0.076	MAPK3,RALB,RPS6KA4,RRAS,STAT2,STAT5B

Survivors

Down regulated

Day 3 vs. Control

Ingenuity Canonical Pathways

	-log(p-value)	Ratio	Molecules
Inflammasome pathway	3.8	0.2	AIM2,CASP8,NFKB1,NLRP1
Sumoylation Pathway	3.23	0.069	CDH1,ETS1,HDAC1,KDM1A,MAPK9,NFKB1,ZNF217
Granzyme B Signaling	2.86	0.188	CASP8,NUMA1,PRKDC
Regulation of the Epithelial-Mesenchymal Transition Pathway	2.78	0.047	AKT2,CDH1,ETS1,FRS2,JAK1,NFKB1,PSEN2,SMAD2,SMO
IL-17A Signaling in Airway Cells	2.67	0.078	AKT2,IL17RC,JAK1,MAPK9,NFKB1
FAT10 Cancer Signaling Pathway	2.39	0.087	AKT2,NFKB1,SMAD2,TGFBR3
IL-22 Signaling	2.34	0.125	AKT2,JAK1,MAPK9
IL-17A Signaling in Gastric Cells	2.29	0.12	IL17RC,MAPK9,NFKB1
IL-17 Signaling	2.25	0.063	AKT2,IL17RC,JAK1,MAPK9,NFKB1
RAR Activation	2.22	0.042	AKT2,ARID2,MAPK9,NFKB1,NRIP2,PRMT1,SMAD2,TNIP1
Regulation of IL-2 Expression in Activated and Anergic T Lymphocytes	2.08	0.057	CAMK4,CD3E,MAPK9,NFKB1,SMAD2
Wnt/ β -catenin Signaling	1.96	0.041	AKT2,APPL2,CDH1,HDAC1,SMO,SOX5,TGFBR3
Wnt/Ca ⁺ pathway	1.96	0.066	CREB5,NFKB1,PDE6B,SMO
Th2 Pathway	1.93	0.045	CD3E,CHD4,JAK1,NFKB1,PSEN2,TGFBR3
Assembly of RNA Polymerase III Complex	1.92	0.167	GTF3C3,POLR3D
B Cell Receptor Signaling	1.84	0.039	AKT2,CAMK2G,CAMK4,CREB5,ETS1,MAPK9,NFKB1
DNA Double-Strand Break Repair by Non-Homologous End Joining	1.79	0.143	PRKDC,XRCC1
ILK Signaling	1.78	0.038	AKT2,CDH1,CREB5,ITGB8,MAPK9,MYH10,NFKB1
iCOS-iCOSL Signaling in T Helper Cells	1.75	0.047	AKT2,CAMK2G,CAMK4,CD3E,NFKB1
Type I Diabetes Mellitus Signaling	1.74	0.047	CASP8,CD3E,JAK1,MAPK9,NFKB1
Huntington's Disease Signaling	1.72	0.034	AKT2,CASP8,CREB5,HDAC1,MAPK9,PSME1,PSMF1,RPH3A
Pancreatic Adenocarcinoma Signaling	1.72	0.046	AKT2,JAK1,MAPK9,NFKB1,SMAD2
Adrenomedullin signaling pathway	1.7	0.037	AKT2,CAMK4,KCNH2,KCNN1,MAPK9,NFKB1,TTN
Caveolar-mediated Endocytosis Signaling	1.7	0.055	ITGA6,ITGAV,ITGB8,RAB5B
Role of PKR in Interferon Induction and Antiviral Response	1.69	0.073	CASP8,NFKB1,RNASEL
Role of IL-17F in Allergic Inflammatory Airway Diseases	1.69	0.073	CREB5,IL17RC,NFKB1
BAG2 Signaling Pathway	1.67	0.071	NFKB1,PSME1,PSMF1
Molecular Mechanisms of Cancer	1.66	0.029	AKT2,CAMK2G,CASP8,CDH1,JAK1,MAPK9,NFKB1,PRKDC,PSEN2,SMAD2,SMO
Neuroinflammation Signaling Pathway	1.64	0.031	AKT2,CASP8,CREB5,JAK1,MAPK9,NFKB1,NOX4,PSEN2,TGFBR3
HOTAIR Regulatory Pathway	1.62	0.039	AGO3,AKT2,CDH1,HDAC1,KDM1A,NFKB1
CD28 Signaling in T Helper Cells	1.62	0.044	AKT2,CAMK4,CD3E,MAPK9,NFKB1
iNOS Signaling	1.61	0.068	CAMK4,JAK1,NFKB1
FAT10 Signaling Pathway	1.58	0.111	PSME1,PSMF1
Glycine Degradation (Creatine Biosynthesis)	1.55	0.5	GATM
NF- κ B Activation by Viruses	1.53	0.049	AKT2,ITGA6,ITGAV,NFKB1
PEDF Signaling	1.53	0.049	AKT2,CASP8,NFKB1,TCF12
Th1 and Th2 Activation Pathway	1.49	0.036	CD3E,CHD4,JAK1,NFKB1,PSEN2,TGFBR3
RANK Signaling in Osteoclasts	1.47	0.047	AKT2,CAMK4,MAPK9,NFKB1
CD27 Signaling in Lymphocytes	1.43	0.058	CASP8,MAPK9,NFKB1
IL-12 Signaling and Production in Macrophages	1.42	0.039	AKT2,ALOX15,APOB,MAPK9,NFKB1
Protein Ubiquitination Pathway	1.42	0.03	DNAJC10,DNAJC6,PSME1,SMO,UBE2B,USP32,USP44,USP8
Polyamine Regulation in Colon Cancer	1.42	0.091	PSME1,PSMF1
Factors Promoting Cardiogenesis in Vertebrates	1.41	0.044	NOX4,SMAD2,SMO,TGFBR3
Nur77 Signaling in T Lymphocytes	1.41	0.057	CAMK4,CD3E,HDAC1
NF- κ B Signaling	1.4	0.034	AKT2,CASP8,HDAC1,NFKB1,TGFBR3,TNIP1
Role of IL-17A in Arthritis	1.39	0.056	IL17RC,MAPK9,NFKB1

Survivors

Up regulated

Day 3 vs. Control

Ingenuity Canonical Pathways

	-log(p-value)	Ratio	Molecules
Natural Killer Cell Signaling	3.75	0.086	INPPL1,MAPK3,NCR3,PAK1,PAK6,PRKCH,PRKD3,RALB,RRAS,SYK
CCR3 Signaling in Eosinophils	3.66	0.083	CCR3,ITPR3,MAPK3,PAK1,PAK6,PRKCH,PRKD3,RALB,ROCK2,RRAS
mTOR Signaling	3.43	0.064	EIF3C,EIF4G3,INSR,MAPK3,PLD2,PRKAG3,PRKCH,PRKD3,RALB,RPS6KA4,RPS6KB2,RRAS,VEGFB
Opioid Signaling Pathway	3.17	0.057	CACNA1F,GRK7,ITPR3,MAPK3,PLD2,PRKCH,PRKD3,RALB,RGS10,RGS6,RPS6KA4,RPS6KB2,RRAS,RYR2
Neuregulin Signaling	3.09	0.085	MAPK3,PRKCH,PRKD3,RALB,RPS6KB2,RRAS,STAT5B,TMEFF2
Estrogen-Dependent Breast Cancer Signaling	3.08	0.096	HSD17B1,HSD17B11,HSD17B13,MAPK3,RALB,RRAS,STAT5B
IL-3 Signaling	2.87	0.089	MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS,STAT5B
Integrin Signaling	2.87	0.059	ARHGAP26,ITGA1,ITGA8,MAPK3,MYL7,PAK1,PAK6,PARVA,RALB,RRAS,WIPF1,ZYX
Prolactin Signaling	2.81	0.086	MAPK3,NR3C1,PRKCH,PRKD3,RALB,RRAS,STAT5B
LPS-stimulated MAPK Signaling	2.78	0.085	CD14,MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS
Thrombopoietin Signaling	2.69	0.095	MAPK3,PRKCH,PRKD3,RALB,RRAS,STAT5B
CXCR4 Signaling	2.61	0.061	ITPR3,MAPK3,MYL7,PAK1,PAK6,PRKCH,PRKD3,RALB,ROCK2,RRAS
Granulocyte Adhesion and Diapedesis	2.59	0.061	CCL25,CLDN2,CSF3,ITGA1,MMP9,SELE,SELL,SELP,THY1,TNFRSF1B
Apelin Endothelial Signaling Pathway	2.55	0.07	AQP2,MAPK3,PRKAG3,PRKCH,PRKD3,RALB,RPS6KB2,RRAS
IL-8 Signaling	2.55	0.056	LASP1,MAPK3,MMP9,MYL7,PLD2,PRKCH,PRKD3,RALB,ROCK2,RRAS,VEGFB
Fc Epsilon RI Signaling	2.49	0.068	IL13,INPPL1,MAPK3,PRKCH,PRKD3,RALB,RRAS,SYK
Renin-Angiotensin Signaling	2.49	0.068	ITPR3,MAPK3,PAK1,PAK6,PRKCH,PRKD3,RALB,RRAS
α-Adrenergic Signaling	2.47	0.075	ITPR3,MAPK3,PRKCH,PRKD3,PYGB,RALB,RRAS
Fcγ Receptor-mediated Phagocytosis in Macrophages and Monocytes	2.47	0.075	MAPK3,PAK1,PLD2,PRKCH,PRKD3,RPS6KB2,SYK
ErbB Signaling	2.47	0.075	MAPK3,PAK1,PAK6,PRKCH,PRKD3,RALB,RRAS
Nitric Oxide Signaling in the Cardiovascular System	2.44	0.075	ARG2,ITPR3,MAPK3,PRKCH,PRKD3,RYR2,VEGFB
Growth Hormone Signaling	2.43	0.085	MAPK3,PRKCH,PRKD3,RPS6KA4,RPS6KB2,STAT5B
UVC-Induced MAPK Signaling	2.37	0.098	MAPK3,PRKCH,PRKD3,RALB,RRAS
Hepatic Cholestasis	2.35	0.056	ABCB11,ABCG5,CD14,CYP27A1,IL13,INSR,PRKCH,PRKD3,SLC10A1,TNFRSF1B
Ephrin Receptor Signaling	2.35	0.056	EFNB3,EPHA2,MAPK3,PAK1,PAK6,RALB,ROCK2,RRAS,VEGFB,WIPF1
Axonal Guidance Signaling	2.32	0.041	EFNB3,EPHA2,MAPK3,MMP9,MYL7,NTNG1,PAK1,PAK6,PAPPA,PLXNC1,PRKCH,PRKD3,RALB,ROCK2,RRAS,SEMA4B,TUBA1A,VEGFB,WIPF1
D-myo-inositol (1,4,5)-trisphosphate Degradation	2.3	0.176	INPP5E,INPPL1,SEC16A
Erythropoietin Signaling	2.28	0.079	MAPK3,PRKCH,PRKD3,RALB,RRAS,STAT5B
Agrin Interactions at Neuromuscular Junction	2.28	0.079	ITGA1,MAPK3,PAK1,PAK6,RALB,RRAS
Macropinocytosis Signaling	2.28	0.079	CD14,PAK1,PRKCH,PRKD3,RALB,RRAS
PPAR Signaling	2.27	0.069	AIP,INSR,MAPK3,RALB,RRAS,STAT5B,TNFRSF1B
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	2.23	0.167	INPP5E,INPPL1,SEC16A
D-myo-inositol (1,3,4)-trisphosphate Biosynthesis	2.23	0.167	INPP5E,INPPL1,SEC16A
CNTF Signaling	2.2	0.089	MAPK3,RALB,RPS6KA4,RPS6KB2,RRAS
Semaphorin Signaling in Neurons	2.17	0.088	CRMP1,MAPK3,PAK1,PAK6,ROCK2
Tryptophan Degradation X (Mammalian, via Tryptamine)	2.16	0.158	ALDH1A3,DDC,IL4I1
Paxillin Signaling	2.15	0.066	ITGA1,ITGA8,PAK1,PAK6,PARVA,RALB,RRAS
Protein Kinase A Signaling	2.14	0.042	ADD1,AKAP10,FLNB,GRK7,ITPR3,MAPK3,MYL7,PRKCH,PRKD3,PTPN22,PTPN23,PTPRS,PYGB,ROCK2,RYR2,YWHAB
NF-κB Activation by Viruses	2.12	0.073	ITGA1,MAPK3,PRKCH,PRKD3,RALB,RRAS
Leukocyte Extravasation Signaling	2.11	0.052	ARHGAP35,CLDN2,CTNNA2,ITGA1,MMP9,PRKCH,PRKD3,ROCK2,THY1,WIPF1
VEGF Family Ligand-Receptor Interactions	2.07	0.071	MAPK3,PRKCH,PRKD3,RALB,RRAS,VEGFB
Germ Cell-Sertoli Cell Junction Signaling	2.07	0.054	CTNNA2,LAMC3,MAPK3,PAK1,PAK6,RALB,RRAS,TUBA1A,ZYX
Rac Signaling	2.07	0.064	MAPK3,MCF2L,NCKAP1,PAK1,PAK6,RALB,RRAS
Estrogen Biosynthesis	2.06	0.103	CYP1A1,HSD17B1,HSD17B11,HSD17B13
IL-2 Signaling	2.05	0.082	MAPK3,RALB,RRAS,STAT5B,SYK
Type II Diabetes Mellitus Signaling	2.02	0.057	CACNA1F,GCK,INSR,MAPK3,PRKAG3,PRKCH,PRKD3,TNFRSF1B

Phagosome Maturation	2.02	0.057	CTSA,CTSD,DCTN4,PRDX5,SNAP25,TUBA1A,VPS33B,VTI1B
Breast Cancer Regulation by Stathmin1	2.02	0.05	CCNE1,ITPR3,MAPK3,PAK1,PRKCH,PRKD3,RALB,ROCK2,RRAS,TUBA1A
GNRH Signaling	2.01	0.053	CACNA1F,ITPR3,MAPK3,PAK1,PAK6,PRKCH,PRKD3,RALB,RRAS
Role of Tissue Factor in Cancer	1.95	0.06	F7,MAPK3,PAK1,RALB,RPS6KA4,RRAS,STAT5B
Cholecystokinin/Gastrin-mediated Signaling	1.93	0.06	ITPR3,MAPK3,PRKCH,PRKD3,RALB,ROCK2,RRAS
Superpathway of D-myo-inositol (1,4,5)-trisphosphate Metabolism	1.92	0.13	INPP5E,INPPL1,SEC16A
Oncostatin M Signaling	1.91	0.093	MAPK3,RALB,RRAS,STAT5B
ErbB4 Signaling	1.91	0.076	MAPK3,PRKCH,PRKD3,RALB,RRAS
PPAR α /RXR α Activation	1.89	0.051	ACVR2B,AIP,INSR,MAPK3,MED24,PRKAG3,RALB,RRAS,STAT5B
Role of JAK1 and JAK3 in γ c Cytokine Signaling	1.88	0.075	MAPK3,RALB,RRAS,STAT5B,SYK
FAK Signaling	1.85	0.064	ARHGAP26,MAPK3,PAK1,PAK6,RALB,RRAS
Synaptic Long Term Depression	1.84	0.05	CACNA1F,CRHR1,ITPR3,MAPK3,PRKCH,PRKD3,RALB,RRAS,RYR2
G Beta Gamma Signaling	1.84	0.057	CACNA1F,MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS
Actin Cytoskeleton Signaling	1.83	0.047	ARHGAP35,CD14,MAPK3,MYL7,NCKAP1,PAK1,PAK6,RALB,ROCK2,RRAS
eNOS Signaling	1.82	0.053	AQP2,AQP7,ITPR3,NOSIP,PRKAG3,PRKCH,PRKD3,VEGFB
PAK Signaling	1.8	0.063	MAPK3,MYL7,PAK1,PAK6,RALB,RRAS
IL-15 Signaling	1.78	0.07	MAPK3,RALB,RRAS,STAT5B,SYK
14-3-3-mediated Signaling	1.77	0.056	MAPK3,PRKCH,PRKD3,RALB,RRAS,TUBA1A,YWHAB
ERK5 Signaling	1.75	0.069	RALB,RPS6KA4,RPS6KB2,RRAS,YWHAB
p70S6K Signaling	1.74	0.055	MAPK3,PRKCH,PRKD3,RALB,RRAS,SYK,YWHAB
Caveolar-mediated Endocytosis Signaling	1.73	0.069	FLNB,FLOT2,INSR,ITGA1,ITGA8
Angiopoietin Signaling	1.71	0.068	PAK1,PAK6,RALB,RRAS,STAT5B
Glutamine Biosynthesis I	1.68	1	GLUL
GDNF Family Ligand-Receptor Interactions	1.66	0.066	DOK6,ITPR3,MAPK3,RALB,RRAS
Chemokine Signaling	1.64	0.065	CCR3,MAPK3,RALB,ROCK2,RRAS
Renal Cell Carcinoma Signaling	1.62	0.064	MAPK3,PAK1,PAK6,RALB,RRAS
FLT3 Signaling in Hematopoietic Progenitor Cells	1.6	0.063	MAPK3,RALB,RPS6KA4,RRAS,STAT5B
Virus Entry via Endocytic Pathways	1.6	0.056	FLNB,ITGA1,PRKCH,PRKD3,RALB,RRAS
Estrogen Receptor Signaling	1.59	0.051	MAPK3,MED24,NR3C1,RALB,RBFOX2,RRAS,TAF5L
HGF Signaling	1.55	0.055	MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS
PEDF Signaling	1.54	0.061	DOCK3,MAPK3,RALB,ROCK2,RRAS
IL-4 Signaling	1.54	0.061	INPPL1,NR3C1,RALB,RPS6KB2,RRAS
HER-2 Signaling in Breast Cancer	1.5	0.06	CCNE1,PRKCH,PRKD3,RALB,RRAS
NGF Signaling	1.5	0.053	MAPK3,RALB,ROCK2,RPS6KA4,RPS6KB2,RRAS
Agranulocyte Adhesion and Diapedesis	1.49	0.046	CCL25,CLDN2,ITGA1,MMP9,MYL7,SELE,SELL,SELP
LPS/IL-1 Mediated Inhibition of RXR Function	1.47	0.043	ABCB11,ABCG5,ALDH1A3,CD14,CHST1,IL4I1,PPARGC1B,SLC10A1,TNFRSF1B
MIF-mediated Glucocorticoid Regulation	1.47	0.088	CD14,MAPK3,NR3C1
fMLP Signaling in Neutrophils	1.46	0.052	ITPR3,MAPK3,PRKCH,PRKD3,RALB,RRAS
GP6 Signaling Pathway	1.45	0.052	COL11A1,COL9A2,LAMC3,PRKCH,PRKD3,SYK
Coagulation System	1.44	0.086	F5,F7,VWF
Endometrial Cancer Signaling	1.43	0.067	CTNNA2,MAPK3,RALB,RRAS
Ceramide Signaling	1.42	0.057	CTSD,MAPK3,RALB,RRAS,TNFRSF1B
Acute Myeloid Leukemia Signaling	1.42	0.057	MAPK3,RALB,RPS6KB2,RRAS,STAT5B
3-phosphoinositide Degradation	1.42	0.047	ALPL,EYA4,INPP5E,INPPL1,PTPN22,PTPN23,TPTE2
Epithelial Adherens Junction Signaling	1.41	0.047	ACVR2B,CTNNA2,MYL7,RALB,RRAS,TUBA1A,ZYX
Putrescine Biosynthesis III	1.38	0.5	AZIN2
Systemic Lupus Erythematosus Signaling	1.38	0.041	C8G,MAPK3,PPIH,PRPF19,PRPF8,RALB,RRAS,SNRPC,SNRPN

Non-Survivors

Down regulated

Day 3 vs. Control

Ingenuity Canonical Pathways

	-log(p-value)	Ratio	Molecules
Inflammasome pathway	3.06	0.2	AIM2,CASP8,NFKB1,NLRP1
Sumoylation Pathway	2.74	0.079	DAXX,ETS1,HDAC1,KDM1A,MAPK9,NFKB1,SP1,ZNF217
Huntington's Disease Signaling	2.65	0.056	AKT2,CASP8,CASP9,CREB5,HDAC1,HSPA14,MAPK9,PENK,POLR2H,PSME1,PSME2,RPH3A,SP1
BAG2 Signaling Pathway	2.65	0.119	HSPA14,NFKB1,PSME1,PSME2,SP1
ILK Signaling	2.55	0.06	AKT2,CREB5,FERMT2,ITGB6,ITGB8,MAPK9,MYH10,NFKB1,PPP2CB,PTGS2,TESK1
Tetrapyrrole Biosynthesis II	2.33	0.4	ALAD,UROS
Granzyme B Signaling	2.31	0.188	CASP8,CASP9,NUMA1
Aldosterone Signaling in Epithelial Cells	2.13	0.058	DNAJC10,DNAJC6,DNAJC9,HSPA14,HSPH1,NR3C2,PIKFYVE,SLC12A1,SLC12A2
Cell Cycle Control of Chromosomal Replication	2.11	0.089	CDK11B,CDK16,MCM2,MCM9,TOP2A
tRNA Charging	2.02	0.105	DARS,IARS2,MARS2,VAR5
Pancreatic Adenocarcinoma Signaling	2	0.065	AKT2,CASP9,MAPK9,NFKB1,PLD1,PTGS2,SMAD2
Induction of Apoptosis by HIV1	1.98	0.083	CASP8,CASP9,DAXX,MAPK9,NFKB1
nNOS Signaling in Skeletal Muscle Cells	1.94	0.1	CACNA1D,CACNA1S,CAMK4,NOS1
Cardiac β -adrenergic Signaling	1.91	0.058	AKAP11,AKAP12,AKAP3,CACNA1D,CACNA1S,PDE12,PDE6B,PPP2CB
Apelin Endothelial Signaling Pathway	1.87	0.061	AKT2,CAMK4,CCL2,MAPK9,MEF2C,NFKB1,SP1
Heme Biosynthesis II	1.8	0.222	ALAD,UROS
Glucocorticoid Receptor Signaling	1.77	0.042	AKT2,ARID2,CCL13,CCL2,CREBZF,GTF2B,GTF2H2,HSPA14,MAPK9,NFKB1,NR3C2,POLR2H,PTGS2,SMAD2
FAT10 Cancer Signaling Pathway	1.73	0.087	AKT2,NFKB1,SMAD2,TGFBR3
Cardiac Hypertrophy Signaling (Enhanced)	1.71	0.038	AKT2,CACNA1D,CACNA1S,CAMK2G,CAMK4,HAND1,HDAC1,IL2RA,MAP3K20,MAPK9,MAPKAPK3,MEF2C,NFKB1,PDE12,PDE6B,PKN1,PTGS2,TGFBR3
ATM Signaling	1.71	0.063	ATM,CREB5,MAPK9,PPP2CB,TLK2,TOPBP1
Small Cell Lung Cancer Signaling	1.69	0.07	AKT2,CASP9,NFKB1,NOS1,PTGS2
CD27 Signaling in Lymphocytes	1.56	0.077	CASP8,CASP9,MAPK9,NFKB1
cAMP-mediated signaling	1.56	0.045	AKAP11,AKAP12,AKAP3,CAMK2G,CAMK4,CREB5,DRD2,PDE12,PDE6B,RAPGEF4
Telomerase Signaling	1.55	0.058	AKT2,ETS1,HDAC1,IL2RA,PPP2CB,SP1
Chemokine Signaling	1.55	0.065	CAMK2G,CAMK4,CCL13,CCL2,NOX1
Androgen Signaling	1.51	0.052	CACNA1D,CACNA1S,CAMK4,GTF2B,GTF2H2,NFKB1,POLR2H
Role of IL-17A in Arthritis	1.5	0.074	CCL2,MAPK9,NFKB1,PTGS2
IL-17 Signaling	1.49	0.063	AKT2,CCL2,MAPK9,NFKB1,PTGS2
Calcium Signaling	1.49	0.046	ATP2C1,CACNA1D,CACNA1S,CAMK2G,CAMK4,CREB5,HDAC1,MEF2C,MYH10
DNA Double-Strand Break Repair by Homologous Recombination	1.43	0.143	ATM,GEN1
Corticotropin Releasing Hormone Signaling	1.43	0.05	CACNA1D,CACNA1S,CAMK4,CREB5,MEF2C,NOS1,PTGS2
TWEAK Signaling	1.41	0.088	CASP8,CASP9,NFKB1
Cancer Drug Resistance By Drug Efflux	1.41	0.069	ABCG2,AKT2,NFKB1,PTGS2
Osteoarthritis Pathway	1.39	0.044	CASP8,CASP9,CREB5,MEF2C,NFKB1,PTGS2,SLC39A8,SMAD2,SP1
Superpathway of Citrulline Metabolism	1.37	0.133	CPS1,NOS1

Non-Survivors
Up regulated
Day 3 vs. Control

Ingenuity Canonical Pathways	-log(p-value)	Ratio	Molecules
Airway Inflammation in Asthma	3.96	0.75	IL13,IL4,TNF
Natural Killer Cell Signaling	3.63	0.103	FCER1G,INPPL1,KLRD1,MAPK3,NCR3,PAK1,PAK6,PRKCH,PRKD3,RALB,RRAS,SYK
Neuregulin Signaling	3.24	0.106	MAPK3,NRG3,PRKCH,PRKD3,PSEN1,RALB,RPS6KB2,RRAS,STAT5B,TMEFF2
Fc Epsilon RI Signaling	3.05	0.094	FCER1G,IL13,IL4,INPPL1,MAPK3,PRKCH,PRKD3,RALB,RRAS,SYK,TNF
Opioid Signaling Pathway	2.87	0.07	CACNA1F,CACNB4,CLTCL1,GRK7,MAPK3,MAPK7,PLD2,PRKACB,PRKCH,PRKD3,RALB,RGS10,RGS6,RPS6KB2,RRAS,RYR2,SLC12A5
Renin-Angiotensin Signaling	2.52	0.086	MAPK3,PAK1,PAK6,PRKACB,PRKCH,PRKD3,PTGER2,RALB,RRAS,TNF
Hepatic Cholestasis	2.49	0.073	ABCB11,ABCG5,CD14,CYP27A1,IL13,IL4,INSR,PRKACB,PRKCH,PRKD3,SLC10A1,TJP2,TNF
LPS-stimulated MAPK Signaling	2.46	0.098	CD14,MAP3K5,MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS
ErbB4 Signaling	2.42	0.106	MAPK3,NRG3,PRKCH,PRKD3,PSEN1,RALB,RRAS
IL-15 Signaling	2.24	0.099	IL4,MAPK3,RALB,RRAS,STAT5B,SYK,TNF
GNRH Signaling	2.23	0.071	CACNA1F,CACNB4,MAP3K5,MAPK3,MAPK7,PAK1,PAK6,PRKACB,PRKCH,PRKD3,RALB,RRAS
ErbB Signaling	2.13	0.086	MAPK3,NRG3,PAK1,PAK6,PRKCH,PRKD3,RALB,RRAS
Agrin Interactions at Neuromuscular Junction	2.08	0.092	ITGA1,MAPK3,NRG3,PAK1,PAK6,RALB,RRAS
Protein Citrullination	2.06	0.4	PADI2,PADI6
PAK Signaling	2.05	0.083	MAPK3,MYL7,PAK1,PAK1IP1,PAK6,RALB,RRAS,TNF
IL-3 Signaling	1.99	0.089	MAPK3,PAK1,PRKCH,PRKD3,RALB,RRAS,STAT5B
IL-2 Signaling	1.98	0.098	CSNK2B,MAPK3,RALB,RRAS,STAT5B,SYK
Type II Diabetes Mellitus Signaling	1.97	0.071	CACNA1F,CACNB4,GCK,INSR,MAP3K5,MAPK3,PRKAG3,PRKCH,PRKD3,TNF
Prolactin Signaling	1.94	0.086	MAPK3,NR3C1,PRKCH,PRKD3,RALB,RRAS,STAT5B
Thrombopoietin Signaling	1.92	0.095	MAPK3,PRKCH,PRKD3,RALB,RRAS,STAT5B
G Beta Gamma Signaling	1.91	0.074	CACNA1F,CACNB4,MAPK3,PAK1,PRKACB,PRKCH,PRKD3,RALB,RRAS
Protein Kinase A Signaling	1.86	0.052	ADD1,ADD2,ADD3,AKAP10,AKAP4,APEX1,FLNB,GRK7,HHAT,MAPK3,MYL7,PRKACB,PRKCH,PRKD3,PTPN22,PTPN23,PYGB,ROCK2,RYR2,TCF4
D-myo-inositol (1,4,5)-trisphosphate Degradation	1.86	0.176	INPP5E,INPPL1,SEC16A
RAR Activation	1.85	0.063	AKR1B1,ALDH1A3,ARID1A,CSNK2B,CYP26A1,MAP3K5,PRKACB,PRKCH,PRKD3,PSMC5,STAT5B,TRIM24
Gαs Signaling	1.81	0.076	ADD1,ADD2,ADD3,CHRM5,MAPK3,PRKACB,PTGER2,RYR2
Role of JAK1 and JAK3 in γc Cytokine Signaling	1.79	0.09	IL4,MAPK3,RALB,RRAS,STAT5B,SYK
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	1.79	0.167	INPP5E,INPPL1,SEC16A
D-myo-inositol (1,3,4)-trisphosphate Biosynthesis	1.79	0.167	INPP5E,INPPL1,SEC16A
Amyloid Processing	1.75	0.1	BACE2,CSNK2B,MAPK3,PRKACB,PSEN1
Tryptophan Degradation X (Mammalian, via Tryptamine)	1.72	0.158	ALDH1A3,DDC,IL4I1
UVC-Induced MAPK Signaling	1.72	0.098	MAPK3,PRKCH,PRKD3,RALB,RRAS
HIF1α Signaling	1.7	0.072	APEX1,LDHB,MAPK3,MAPK7,MMP9,RALB,RRAS,VEGFB
PPARα/RXRα Activation	1.69	0.062	ACVR2B,AIP,INSR,MAPK3,MED24,PRKACB,PRKAG3,RALB,RRAS,STAT5B,TGS1
Coagulation System	1.68	0.114	F11,F5,F7,VWF
mTOR Signaling	1.66	0.059	EIF3C,EIF4G3,INSR,MAPK3,PLD2,PRKAG3,PRKCH,PRKD3,RALB,RPS6KB2,RRAS,VEGFB
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.64	0.25	MMP9,TNF
Apelin Endothelial Signaling Pathway	1.63	0.07	AQP2,MAPK3,PRKAG3,PRKCH,PRKD3,RALB,RPS6KB2,RRAS
α-Adrenergic Signaling	1.63	0.075	MAPK3,PRKACB,PRKCH,PRKD3,PYGB,RALB,RRAS
Fcγ Receptor-mediated Phagocytosis in Macrophages and Monocytes	1.63	0.075	MAPK3,PAK1,PLD2,PRKCH,PRKD3,RPS6KB2,SYK
Caveolar-mediated Endocytosis Signaling	1.63	0.082	ALB,FLNB,FLOT2,INSR,ITGA1,ITGA8
Estrogen-Dependent Breast Cancer Signaling	1.63	0.082	HSD17B1,HSD17B13,MAPK3,RALB,RRAS,STAT5B
Nitric Oxide Signaling in the Cardiovascular System	1.61	0.075	ARG2,MAPK3,PRKACB,PRKCH,PRKD3,RYR2,VEGFB
Ovarian Cancer Signaling	1.6	0.065	BRCA2,MAPK3,MMP9,PRKACB,RALB,RPS6KB2,RRAS,TCF4,VEGFB
GP6 Signaling Pathway	1.6	0.069	COL11A1,COL4A2,COL9A2,FCER1G,LAMC3,PRKCH,PRKD3,SYK
Synaptogenesis Signaling Pathway	1.58	0.052	CACNB4,CDH17,CNTNAP1,EFNB3,EPHA2,FARP1,GRM3,MAPK3,PAK1,PRKACB,RALB,RPS6KB2,RRAS,SNAP25,VTI1B,YKT6
Cholecystokinin/Gastrin-mediated Signaling	1.58	0.068	MAPK3,MAPK7,PRKCH,PRKD3,RALB,ROCK2,RRAS,TNF
Inhibition of Matrix Metalloproteases	1.56	0.105	HSPG2,MMP9,RECK,TIMP2

Erythropoietin Signaling	1.55	0.079	MAPK3,PRKCH,PRKD3,RALB,RRAS,STAT5B
Macropinocytosis Signaling	1.55	0.079	CD14,PAK1,PRKCH,PRKD3,RALB,RRAS
Semaphorin Signaling in Neurons	1.53	0.088	CRMP1,MAPK3,PAK1,PAK6,ROCK2
Apoptosis Signaling	1.52	0.071	BID,LMNA,MAP3K5,MAPK3,RALB,RRAS,TNF
CCR3 Signaling in Eosinophils	1.52	0.067	MAPK3,PAK1,PAK6,PRKCH,PRKD3,RALB,ROCK2,RRAS
Glutamine Biosynthesis I	1.52	1	GLUL
Threonine Degradation II	1.52	1	GCAT
Germ Cell-Sertoli Cell Junction Signaling	1.51	0.06	CTNNA2,LAMC3,MAP3K5,MAPK3,PAK1,PAK6,RALB,RRAS,TNF,ZYX
LXR/RXR Activation	1.5	0.066	ABCG5,ALB,APOM,ARG2,CD14,LDLR,MMP9,TNF
Superpathway of D-myo-inositol (1,4,5)-trisphosphate Metabolism	1.5	0.13	INPP5E,INPPL1,SEC16A
Leukocyte Extravasation Signaling	1.46	0.057	ARHGAP35,CLDN2,CTNNA2,ITGA1,MMP9,PRKCH,PRKD3,ROCK2,THY1,TIMP2,WIPF1
PPAR Signaling	1.46	0.069	AIP,INSR,MAPK3,RALB,RRAS,STAT5B,TNF
JAK/Stat Signaling	1.46	0.075	MAPK3,PIAS2,RALB,RRAS,STAT2,STAT5B
IL-8 Signaling	1.44	0.056	LASP1,MAPK3,MMP9,MYL7,PLD2,PRKCH,PRKD3,RALB,ROCK2,RRAS,VEGFB
NF- κ B Activation by Viruses	1.41	0.073	ITGA1,MAPK3,PRKCH,PRKD3,RALB,RRAS
PEDF Signaling	1.41	0.073	DOCK3,MAPK3,RALB,ROCK2,RRAS,TCF4
IL-4 Signaling	1.41	0.073	IL4,INPPL1,NR3C1,RALB,RPS6KB2,RRAS
Oncostatin M Signaling	1.39	0.093	MAPK3,RALB,RRAS,STAT5B
PXR/RXR Activation	1.37	0.079	ABCB11,INSR,NR3C1,PRKACB,TNF
HER-2 Signaling in Breast Cancer	1.37	0.071	CCNE1,MAP3K5,PRKCH,PRKD3,RALB,RRAS
VEGF Family Ligand-Receptor Interactions	1.37	0.071	MAPK3,PRKCH,PRKD3,RALB,RRAS,VEGFB
eNOS Signaling	1.37	0.059	AQP2,AQP7,CHRM5,NOSIP,PRKACB,PRKAG3,PRKCH,PRKD3,VEGFB

Supplementary Table 5

A. Pathways showing an increased trend in a time dependent manner in the survivor/non-survivor cohort.

Up_D1-D3_survivors				
Canonical Pathways	SD1 vs. Baseline	SD2 vs. Baseline	SD3 vs. Baseline	
Ephrin Receptor Signaling	1.2544	1.819	2.352	
Paxillin Signaling	1.0654	1.568	2.155	
Myc Mediated Apoptosis Signaling	0.3844	0.784	1.323	
fMLP Signaling in Neutrophils	0.6379	0.989	1.465	
CCR3 Signaling in Eosinophils	1.9576	2.936	3.656	
Axonal Guidance Signaling	1.3069	1.889	2.317	
IL-8 Signaling	1.6282	2.007	2.548	
NF-κB Activation by Viruses	2.0458	2.071	2.123	
CXCR4 Signaling	1.8212	2.035	2.606	
Agranulocyte Adhesion and Diapedesis	1.2829	1.432	1.487	
p70S6K Signaling	1.0507	1.233	1.735	
GDNF Family Ligand-Receptor Interactions	0.2883	0.649	1.663	
HGF Signaling	1.3578	1.5	1.546	
ErbB Signaling	2.2168	2.405	2.465	
PPARα/RXRα Activation	1.2544	1.407	1.885	
Nitric Oxide Signaling in the Cardiovascular System	2.1867	2.379	2.439	
Role of Tissue Factor in Cancer	1.2462	1.404	1.95	
Integrin Signaling	2.1479	2.302	2.867	
CNTF Signaling	1.3053	1.491	2.201	
Leukocyte Extravasation Signaling	1.6606	2.037	2.11	
Systemic Lupus Erythematosus Signaling	0.5848	0.712	1.376	
Renin-Angiotensin Signaling	2.031	2.418	2.485	
UVC-Induced MAPK Signaling	2.0254	2.328	2.375	
Endometrial Cancer Signaling	0.777	0.858	1.431	
Natural Killer Cell Signaling	3.0006	3.657	3.746	
mTOR Signaling	2.1858	2.333	3.428	
IL-2 Signaling	1.6659	2.001	2.045	
IL-15 Signaling	1.3826	1.736	1.778	
NGF Signaling	0.9549	1.013	1.497	
GNRH Signaling	1.3723	1.939	2.006	
Thrombopoietin Signaling	2.1481	2.636	2.691	
Melanocyte Development and Pigmentation Signaling	0.918	1.282	1.32	
Breast Cancer Regulation by Stathmin1	1.2614	1.95	2.022	
Agrin Interactions at Neuromuscular Junction	1.723	2.229	2.282	

VEGF Family Ligand-Receptor Interactions	1.5114	2.022	2.073
IL-3 Signaling	2.141	2.808	2.871
Prolactin Signaling	2.077	2.745	2.808
Synaptic Long Term Potentiation	0.7797	1.26	1.303
Phagosome Maturation	1.19	1.961	2.023
Superpathway of Inositol Phosphate Compounds	0.4245	1.26	1.312
3-phosphoinositide Degradation	0.5442	1.372	1.421
Chemokine Signaling	0.8488	1.599	1.641
ErbB2-ErbB3 Signaling	0.7081	1.31	1.344
Angiopoietin Signaling	0.9012	1.666	1.708
α -Adrenergic Signaling	1.3081	2.405	2.465
Role of JAK1 and JAK3 in γ c Cytokine Signaling	1.0381	1.835	1.879
Oncostatin M Signaling	1.1743	1.871	1.908
Putrescine Biosynthesis III	1.153	1.371	1.382
Glutamine Biosynthesis I	1.4462	1.667	1.678
Tryptophan Degradation X (Mammalian, via Tryptamine)	0.8334	2.13	2.16
Putrescine Degradation III	0.3354	1.294	1.314
Estrogen-Dependent Breast Cancer Signaling	1.3331	1.14	3.075
Protein Kinase A Signaling	0.6695	2.388	2.137
Estrogen Receptor Signaling	0.6568	0.467	1.591
Growth Hormone Signaling	1.873	1.736	2.428
MIF-mediated Glucocorticoid Regulation	0.9177	0.781	1.47
Apelin Endothelial Signaling Pathway	1.6724	1.435	2.555
Granulocyte Adhesion and Diapedesis	1.8022	1.574	2.586
ERK5 Signaling	0.9381	0.694	1.754
Synaptic Long Term Depression	1.2128	1.014	1.841
Superpathway of D-myo-inositol (1,4,5)-trisphosphate Metabolism	1.3233	1.061	1.925
Caveolar-mediated Endocytosis Signaling	1.3331	1.14	1.731
D-myo-inositol (1,3,4)-trisphosphate Biosynthesis	1.6029	1.249	2.228
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	1.6029	1.249	2.228
LPS/IL-1 Mediated Inhibition of RXR Function	0.8726	0.525	1.474
D-myo-inositol (1,4,5)-trisphosphate Degradation	1.6707	1.294	2.301
Cholecystokinin/Gastrin-mediated Signaling	1.6075	1.389	1.931
IL-4 Signaling	0.7687	2.071	1.537
PEDF Signaling	0.7687	2.071	1.537
Renal Cell Carcinoma Signaling	0.8321	2.175	1.62
Rac Signaling	1.3578	2.583	2.07
eNOS Signaling	1.329	0.956	1.823
Opioid Signaling Pathway	2.8837	2.598	3.168
IGF-1 Signaling	0.7715	1.604	1.168

Autophagy	0.5304	1.568	1.001
Acute Myeloid Leukemia Signaling	1.0198	1.928	1.424
G Beta Gamma Signaling	1.5053	2.309	1.838
PDGF Signaling	0.7106	1.42	0.971
LPS-stimulated MAPK Signaling	2.5829	2.071	2.777
Ovarian Cancer Signaling	0.9118	1.996	1.15
NAD biosynthesis II (from tryptophan)	0.4506	1.578	0.649
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	0.7068	2.184	0.923
Thyroid Cancer Signaling	0.9862	1.651	1.059
Epithelial Adherens Junction Signaling	1.3614	1.794	1.408
Macropinocytosis Signaling	2.2417	1.621	2.282
Ceramide Signaling	1.417	0.915	1.424
Fc Epsilon RI Signaling	2.4962	3.014	2.485
Synaptogenesis Signaling Pathway	1.2939	2.157	1.222
Factors Promoting Cardiogenesis in Vertebrates	0.9846	1.349	0.918
Regulation of Actin-based Motility by Rho	1.0198	1.384	0.944
BMP signaling pathway	1.114	1.477	1.014
Insulin Receptor Signaling	1.2701	1.57	1.186
Semaphorin Signaling in Neurons	2.3891	1.467	2.168
JAK/Stat Signaling	1.1751	1.536	1.058
PPAR Signaling	2.478	1.659	2.268
Differential Regulation of Cytokine Production in Intestinal Epithelial Cells by IL-17A and IL-17F	1.3233	0.405	1.08
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	1.6029	0.489	1.269
PTEN Signaling	1.4285	1.714	1.303
Extrinsic Prothrombin Activation Pathway	1.7435	0.532	1.363
Type II Diabetes Mellitus Signaling	2.8026	1.085	2.023
14-3-3-mediated Signaling	2.2514	1.26	1.768
Virus Entry via Endocytic Pathways	1.8352	2.076	1.598
Coagulation System	2.1122	0.761	1.437
FLT3 Signaling in Hematopoietic Progenitor Cells	1.6398	1.557	1.598
GP6 Signaling Pathway	2.0561	0.977	1.449
Fcγ Receptor-mediated Phagocytosis in Macrophages and Monocytes	3.3149	1.818	2.465
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.8503	0.451	1.049
PXR/RXR Activation	1.127	1.331	0.836
IL-6 Signaling	1.4473	0.549	0.91
Neuroprotective Role of THOP1 in Alzheimer's Disease	1.3774	1.516	1.1
LXR/RXR Activation	2.3839	0.315	0.954
Airway Inflammation in Asthma	2.1358	2.57	1.09
Systemic Lupus Erythematosus In B Cell Signaling Pathway	2.1383	0.922	1.27

Neuregulin Signaling	3.2749	3.02	3.092
ErbB4 Signaling	2.0394	1.861	1.905
Sperm Motility	1.6995	0.519	0.806
FXR/RXR Activation	1.4473	0.296	0.573
IL-15 Production	1.5865	0.33	0.628
Hepatic Cholestasis	4.1316	1.819	2.352
Apoptosis Signaling	3.1205	0.794	1.257
Induction of Apoptosis by HIV1	2.2644	0	0.444
Death Receptor Signaling	1.8155	0	0.247
PAK Signaling	2.1279	1.756	1.805
Regulation of Cellular Mechanics by Calpain Protease	1.574	1.31	1.344
FAK Signaling	2.1867	1.797	1.847
Glioma Signaling	1.3774	1.064	1.1
Actin Cytoskeleton Signaling	2.3643	1.761	1.83
Bladder Cancer Signaling	1.6623	1.25	1.288
Erythropoietin Signaling	2.8139	2.229	2.282
HER-2 Signaling in Breast Cancer	1.9852	1.458	1.498
Atherosclerosis Signaling	1.5252	0.92	0.954
HMGB1 Signaling	1.5874	0.908	0.946
Acute Phase Response Signaling	1.9245	0.73	0.765
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	1.4616	0.435	0.459
nNOS Signaling in Neurons	1.6256	0.584	0.6
TNFR1 Signaling	2.8241	1.075	1.1
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.5081	0.797	0.807
Glucose and Glucose-1-phosphate Degradation	1.6228	0.85	0.86
Crosstalk between Dendritic Cells and Natural Killer Cells	1.3944	0.241	0.252
Lymphotoxin β Receptor Signaling	1.3923	0	0
Molecular Mechanisms of Cancer	1.6771	0.895	0.732
Tec Kinase Signaling	1.535	1.236	0.609
Sertoli Cell-Sertoli Cell Junction Signaling	2.2446	1.372	0.742
Germ Cell-Sertoli Cell Junction Signaling	3.0255	2.489	2.07
NF- κ B Signaling	1.9627	1.063	0.296
Tight Junction Signaling	1.4192	1.157	0.855
Amyloid Processing	2.7184	1.651	0.549
Estrogen Biosynthesis	0.7888	0	2.056
TNFR2 Signaling	2.4725	0	0.338
TCA Cycle II (Eukaryotic)	0	1.844	0.399
Dolichyl-diphosphooligosaccharide Biosynthesis	1.3226	0	0.719

Down_D1-D3_survivors			
	SD1 vs. Baseline	SD2 vs. Baseline	SD3 vs. Baseline
Canonical Pathways			
Wnt/Ca+ pathway	1.09	1.53	1.96
iNOS Signaling	0.48	1.08	1.61
IL-17A Signaling in Gastric Cells	0.84	1.52	2.29
Role of JAK family kinases in IL-6-type Cytokine Signaling	0.31	0.62	1.31
Role of JAK1, JAK2 and TYK2 in Interferon Signaling	0.32	0.63	1.35
Regulation of IL-2 Expression in Activated and Anergic T Lymphocytes	1.06	1.79	2.08
OX40 Signaling Pathway	0.74	0.91	1.37
Factors Promoting Cardiogenesis in Vertebrates	1.03	1.12	1.41
IL-12 Signaling and Production in Macrophages	0.57	0.76	1.42
Role of IL-17F in Allergic Inflammatory Airway Diseases	1.02	1.13	1.69
Wnt/ β -catenin Signaling	1.78	1.95	1.96
Inflammasome pathway	1	0.7	3.8
Protein Ubiquitination Pathway	0.37	0.25	1.42
NF- κ B Activation by Viruses	0.75	0.64	1.53
IL-17A Signaling in Airway Cells	1.03	0.81	2.67
IL-22 Signaling	0.87	0.63	2.34
Regulation of the Epithelial-Mesenchymal Transition Pathway	1.48	1.22	2.78
Caveolar-mediated Endocytosis Signaling	0.88	0.72	1.7
CD28 Signaling in T Helper Cells	1.05	0.88	1.62
Glycine Degradation (Creatine Biosynthesis)	1.28	1.66	1.55
Heme Biosynthesis from Uroporphyrinogen-III I	0.99	1.36	1.26
Catecholamine Biosynthesis	0.99	1.36	1.26
4-1BB Signaling in T Lymphocytes	0.68	1.32	1.12
Activation of IRF by Cytosolic Pattern Recognition Receptors	0.65	1.53	1.25
IL-17 Signaling	1.2	0.66	2.25
Sumoylation Pathway	2.24	3.9	3.23
Th1 and Th2 Activation Pathway	0.79	0.26	1.49
Molecular Mechanisms of Cancer	1.26	0.88	1.66
Assembly of RNA Polymerase III Complex	1.4	0.91	1.92
Protein Kinase A Signaling	1.27	1.21	1.32
Th2 Pathway	1.17	0.37	1.93
Type I Diabetes Mellitus Signaling	1.17	0.48	1.74
FAT10 Cancer Signaling Pathway	2.12	2.79	2.39
Granzyme B Signaling	2.08	0.79	2.86
Role of IL-17A in Arthritis	1.25	0.93	1.39
Nur77 Signaling in T Lymphocytes	1.27	0.94	1.41
ILK Signaling	1.56	0.83	1.78
HOTAIR Regulatory Pathway	1.6	1.54	1.62
NF- κ B Signaling	1.32	0.89	1.4
Role of PKR in Interferon Induction and Antiviral Response	1.63	1.13	1.69

iCOS-iCOSL Signaling in T Helper Cells	1.62	0.49	1.76
RAR Activation	2.26	1.72	2.22
GNRH Signaling	1.06	1.4	1.02
PEDF Signaling	1.64	0.64	1.53
RANK Signaling in Osteoclasts	1.55	1.16	1.47
Androgen Signaling	0.81	1.78	0.52
GM-CSF Signaling	1.4	0.27	1.11
PCP pathway	1.11	2.37	0.68
Noradrenaline and Adrenaline Degradation	0.72	1.37	0.46
Phagosome Maturation	1.46	1.71	1.31
Neuroinflammation Signaling Pathway	2.28	0.67	1.64
Glucocorticoid Receptor Signaling	2.06	0.3	1.31
Angiopoietin Signaling	1.32	0.71	1.06
FGF Signaling	1.6	0.22	0.93
Cancer Drug Resistance By Drug Efflux	1.71	0.88	1.31
CD27 Signaling in Lymphocytes	1.9	0.95	1.43
B Cell Receptor Signaling	2.46	1.31	1.84
Docosahexaenoic Acid (DHA) Signaling	1.74	0.46	1
Basal Cell Carcinoma Signaling	0.93	1.38	0.2
Apelin Pancreas Signaling Pathway	1.56	1.93	0.91
Paxillin Signaling	1.62	0.95	1.19
Telomerase Signaling	1.66	0.97	1.22
MIF Regulation of Innate Immunity	1.59	1.96	0.92
Myc Mediated Apoptosis Signaling	2.11	0.8	1.19
Adipogenesis pathway	2.04	2.47	0.93
Inhibition of Angiogenesis by TSP1	1.27	1.32	1.12
Dendritic Cell Maturation	1.36	0.91	1
Pancreatic Adenocarcinoma Signaling	2.61	1.5	1.72
Estrogen-Dependent Breast Cancer Signaling	3.13	0.72	1.07
Hereditary Breast Cancer Signaling	1.5	0.35	0.51
GP6 Signaling Pathway	2.4	0.87	1.08
Osteoarthritis Pathway	1.62	1.11	1.12
Apelin Liver Signaling Pathway	1.5	1.48	0.51
Huntington's Disease Signaling	3.69	1.82	1.72
Adrenomedullin signaling pathway	1.83	1.71	1.7
NAD Salvage Pathway II	1.75	0.68	0.59
BAG2 Signaling Pathway	3.08	2.94	1.67
Role of p14/p19ARF in Tumor Suppression	1.42	0.58	0.48
Sonic Hedgehog Signaling	1.38	0.56	0.47
Integrin Signaling	1.64	1.59	1.14
Small Cell Lung Cancer Signaling	1.93	0.74	0.57
HER-2 Signaling in Breast Cancer	1.6	0.63	0.48
Heme Biosynthesis II	1.64	1.02	0.92

Glycine Betaine Degradation	1.55	0.98	0.88
Prostate Cancer Signaling	2	1.13	0.88
Circadian Rhythm Signaling	1.95	1.29	1.1
ATM Signaling	1.83	1.05	0.81
Apelin Endothelial Signaling Pathway	2.45	1.43	1.1
Polyamine Regulation in Colon Cancer	1.7	1.62	1.42
Induction of Apoptosis by HIV1	1.66	1.55	1.27
PFKFB4 Signaling Pathway	1.47	1.04	0.86
Ovarian Cancer Signaling	1.49	0.71	0.23
Apelin Adipocyte Signaling Pathway	1.74	1.26	0.52
NGF Signaling	1.96	1.44	1.11
FAT10 Signaling Pathway	1.94	1.79	1.58
PRPP Biosynthesis I	1.11	1.49	0
NAD Biosynthesis III	0.99	1.36	0
L-DOPA Degradation	1.28	1.66	0
Guanosine Nucleotides Degradation III	1.4	0	0.8
Gluconeogenesis I	1.55	0.62	0
Urate Biosynthesis/Inosine 5'-phosphate Degradation	1.34	0	0.77
Tumoricidal Function of Hepatic Natural Killer Cells	1.59	0	0.54
Thio-molybdenum Cofactor Biosynthesis	1.57	0	0
DNA Double-Strand Break Repair by Non-Homologous End Joining	0	0	1.79

Up_D1-D3_non_survivors			
	SD1 vs. Baseline	SD2 vs. Baseline	SD3 vs. Baseline
Canonical Pathways			
ErbB Signaling	1.93	2.04	2.13
LPS-stimulated MAPK Signaling	2.28	2.36	2.46
Neuroprotective Role of THOP1 in Alzheimer's Disease	1.16	1.24	1.31
HIF1α Signaling	0.81	1.21	1.7
α-Adrenergic Signaling	1.49	1.55	1.63
Cholecystokinin/Gastrin-mediated Signaling	1.35	1.49	1.58
Neuregulin Signaling	2.89	3.11	3.24
Prolactin Signaling	1.81	1.85	1.93
Inhibition of Matrix Metalloproteases	0.72	0.93	1.56
Ovarian Cancer Signaling	1	1.14	1.6
RAR Activation	0.63	0.82	1.85
PEDF Signaling	0.96	1.34	1.41
PXR/RXR Activation	0.97	1.31	1.37
ErbB4 Signaling	1.8	2.33	2.42
Superpathway of D-myo-inositol (1,4,5)-trisphosphate Metabolism	1.21	1.46	1.5
Tryptophan Degradation X (Mammalian, via Tryptamine)	1.42	1.68	1.72
D-myo-inositol (1,3,4)-trisphosphate Biosynthesis	1.48	1.74	1.79
D-myo-inositol (1,4,5)-trisphosphate Degradation	1.55	1.81	1.86
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.42	1.61	1.64
Airway Inflammation in Asthma	3.61	3.91	3.96
Threonine Degradation II	1.4	1.5	1.52
Glutamine Biosynthesis I	1.4	1.5	1.52
G α 12/13 Signaling	0.58	1.27	1.34
ErbB2-ErbB3 Signaling	0.6	1.29	1.35
VEGF Family Ligand-Receptor Interactions	1.3	1.3	1.37
Opioid Signaling Pathway	2.72	2.69	2.87
GNRH Signaling	1.4	2.53	2.23
Agrin Interactions at Neuromuscular Junction	1.08	2.57	2.08
Caveolar-mediated Endocytosis Signaling	1.58	1.56	1.63
PAK Signaling	1.42	2.47	2.05
G α s Signaling	1.21	0.61	1.81
Apelin Endothelial Signaling Pathway	1.41	1.16	1.63
G Beta Gamma Signaling	1.62	2.27	1.91
PPAR α /RXR α Activation	1.27	2.36	1.69
Protein Kinase A Signaling	1.7	1.44	1.86
Leukocyte Extravasation Signaling	1.34	1.7	1.46
HGF Signaling	1.14	1.63	1.29
Rac Signaling	1.14	1.63	1.29
Synaptogenesis Signaling Pathway	1.4	0.96	1.58
Nitric Oxide Signaling in the Cardiovascular System	1.47	2.01	1.61

BER pathway	1.09	0.49	1.3
Sertoli Cell-Sertoli Cell Junction Signaling	1.23	1.53	1.3
Maturity Onset Diabetes of Young (MODY) Signaling	0.72	1.62	0.91
Thrombopoietin Signaling	1.9	1.84	1.92
IL-15 Signaling	2.15	1.61	2.24
IL-12 Signaling and Production in Macrophages	0.83	2.08	0.99
Glucose and Glucose-1-phosphate Degradation	0.61	1.72	0.71
Estrogen-Dependent Breast Cancer Signaling	1.58	1.09	1.63
Role of JAK1 and JAK3 in γ c Cytokine Signaling	1.77	1.22	1.79
Agranulocyte Adhesion and Diapedesis	1.02	1.61	1.05
FLT3 Signaling in Hematopoietic Progenitor Cells	1.02	1.41	1.03
IL-2 Signaling	1.98	1.36	1.98
Natural Killer Cell Signaling	3.63	3.48	3.63
Axonal Guidance Signaling	0.76	1.61	0.74
LXR/RXR Activation	1.64	3.92	1.5
Fc Epsilon RI Signaling	3.1	2.4	3.05
FXR/RXR Activation	1.2	2.69	1.06
Osteoarthritis Pathway	1.14	1.83	0.99
eNOS Signaling	1.39	1.28	1.37
Atherosclerosis Signaling	1.28	1.83	1.12
Renin-Angiotensin Signaling	2.61	2.92	2.52
Superpathway of Inositol Phosphate Compounds	1.09	1.73	0.89
Pancreatic Adenocarcinoma Signaling	1.54	0.89	1.33
Coagulation System	1.92	2.34	1.68
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.51	1.88	1.28
Ceramide Signaling	1.21	1.67	0.89
Acute Phase Response Signaling	1.58	2.36	1.02
Granulocyte Adhesion and Diapedesis	1.48	1.8	1.18
14-3-3-mediated Signaling	1.19	1.33	1.04
mTOR Signaling	1.79	1.9	1.66
Molecular Mechanisms of Cancer	1.46	0.8	1.1
Aryl Hydrocarbon Receptor Signaling	1.32	0.57	0.9
p70S6K Signaling	1.49	0.66	1.02
UVC-Induced MAPK Signaling	1.81	1.66	1.72
3-phosphoinositide Degradation	1.44	1.7	1.07
Fc γ Receptor-mediated Phagocytosis in Macrophages and Monocytes	2.41	1.13	1.63
Virus Entry via Endocytic Pathways	1.57	1.69	1.35
IL-8 Signaling	1.61	1.34	1.44
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	1.78	2.22	0.95
Integrin Signaling	1.45	1.52	1.31
PPAR Signaling	1.71	1.83	1.46
GP6 Signaling Pathway	2.64	1.12	1.59
Thyroid Cancer Signaling	1.32	1.14	1.19

Glioma Signaling	1.93	0.58	0.94
Oncostatin M Signaling	1.56	1.34	1.39
Tight Junction Signaling	1.45	1.08	1.16
Role of Tissue Factor in Cancer	1.37	1.51	0.85
FAK Signaling	1.47	1.53	1.17
Systemic Lupus Erythematosus In B Cell Signaling Pathway	2.31	0.66	0.95
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	1.67	1.86	0.77
Actin Cytoskeleton Signaling	1.33	1.41	0.93
CCR3 Signaling in Eosinophils	2.07	1.44	1.52
Pyridoxal 5'-phosphate Salvage Pathway	1.87	1.29	1.35
NF-κB Activation by Viruses	1.78	1.82	1.41
Bladder Cancer Signaling	1.42	1.49	0.77
Salvage Pathways of Pyrimidine Ribonucleotides	1.44	1.51	0.79
Phagosome Maturation	1.99	1.12	1.19
Amyloid Processing	2.46	1.69	1.75
JAK/Stat Signaling	1.84	1.88	1.46
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	2.31	1.74	1.79
CNTF Signaling	1.63	1	1.04
IL-4 Signaling	2.28	1.34	1.41
TNFR1 Signaling	1.93	1.19	1.24
Apoptosis Signaling	2.74	1.45	1.52
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	1.48	0.96	0.99
Putrescine Degradation III	1.55	1	1.03
Macropinocytosis Signaling	1.97	1.99	1.55
Extrinsic Prothrombin Activation Pathway	1.62	1.05	1.08
Mechanisms of Viral Exit from Host Cells	1.64	0.86	0.89
Germ Cell-Sertoli Cell Junction Signaling	2.57	2.62	1.51
Cell Cycle: G1/S Checkpoint Regulation	1.32	0.46	0.49
IL-15 Production	1.33	0.29	0.31
nNOS Signaling in Neurons	2.02	0.37	0.39
Phenylalanine Degradation IV (Mammalian, via Side Chain)	1.78	0.44	0.45
Ephrin Receptor Signaling	1.58	1.58	1.34
Semaphorin Signaling in Neurons	2.14	2.05	1.53
Netrin Signaling	1.35	1.26	0.87
CXCR4 Signaling	1.5	1.45	1.2
Death Receptor Signaling	2.01	0.81	0.53
TNFR2 Signaling	2.27	0.63	0.23
Tec Kinase Signaling	1.92	1.17	0.94
Cyclins and Cell Cycle Regulation	1.39	0.61	0.36
LPS/IL-1 Mediated Inhibition of RXR Function	1.67	1.15	0.96
Role of JAK2 in Hormone-like Cytokine Signaling	1.43	0.57	0.2
Iron homeostasis signaling pathway	1.43	0.63	0.25

nNOS Signaling in Skeletal Muscle Cells	1.68	1.43	0.92
Induction of Apoptosis by HIV1	1.5	0.92	0.56
Type II Diabetes Mellitus Signaling	3.32	2.78	1.97
NF-κB Signaling	1.61	0.97	0.54
Regulation of Cellular Mechanics by Calpain Protease	1.87	1.29	0.89
Growth Hormone Signaling	2.15	1.61	1.19
Epithelial Adherens Junction Signaling	1.77	1.31	0.76
Erythropoietin Signaling	2.5	1.99	1.55
Amyotrophic Lateral Sclerosis Signaling	1.42	1.08	0.77
HER-2 Signaling in Breast Cancer	2.21	1.77	1.37
Hepatic Cholestasis	3.1	2.79	2.49
IL-3 Signaling	2.94	2.46	1.99
Protein Citrullination	0.73	0	2.06

Down_D1-D3_non_survivors

	SD1 vs. Baseline	SD2 vs. Baseline	SD3 vs. Baseline
Canonical Pathways			
Cell Cycle Control of Chromosomal Replication	0.86	1.4	2.11
nNOS Signaling in Skeletal Muscle Cells	0.77	1.2	1.94
Chemokine Signaling	0.85	1	1.56
Inflammasome pathway	0.8	1.12	3.06
cAMP-mediated signaling	0.74	0.84	1.56
Fatty Acid α -oxidation	0.96	1.29	1.32
Superpathway of Citrulline Metabolism	1.01	1.34	1.37
Glycine Degradation (Creatine Biosynthesis)	1.15	1.34	1.36
L-DOPA Degradation	1.15	1.34	1.36
ILK Signaling	1.16	1.19	2.55
Opioid Signaling Pathway	1	0.96	1.34
Osteoarthritis Pathway	0.91	0.7	1.39
tRNA Charging	0.81	0.23	2.02
Cardiac Hypertrophy Signaling (Enhanced)	1.45	1.85	1.71
Cardiac β -adrenergic Signaling	1.21	0.67	1.91
Signaling by Rho Family GTPases	0.45	1.63	1.06
Stearate Biosynthesis I (Animals)	0.68	1.74	1.14
DNA Double-Strand Break Repair by Homologous Recombination	1.06	0.56	1.43
Aldosterone Signaling in Epithelial Cells	1.65	0.84	2.13
Role of NFAT in Cardiac Hypertrophy	1.11	0.67	1.34
Sumoylation Pathway	2.48	3.28	2.74
Granzyme B Signaling	1.75	0.51	2.31
Tetrapyrrole Biosynthesis II	1.93	0.96	2.33
FAT10 Cancer Signaling Pathway	1.63	1.05	1.73
CD27 Signaling in Lymphocytes	1.43	0.47	1.56
GNRH Signaling	1.07	1.37	1.08
Rac Signaling	1	2.41	1.01
TWEAK Signaling	1.49	0.26	1.41
Induction of Apoptosis by HIV1	2.27	0.8	1.98
Androgen Signaling	1.63	1.04	1.51
Pancreatic Adenocarcinoma Signaling	2.27	0.99	1.99
PCP pathway	0.78	1.92	0.42
ATM Signaling	2.13	0.42	1.7
Systemic Lupus Erythematosus In T Cell Signaling Pathway	1.63	0.42	1.29
NAD Salvage Pathway II	1.43	1.93	1.11
BAG2 Signaling Pathway	3.18	1.81	2.65
Heme Biosynthesis II	2.49	0.72	1.8
Neuroinflammation Signaling Pathway	1.49	0.88	1.23
Phagosome Maturation	1.19	1.37	1.04
OX40 Signaling Pathway	1.34	0.44	0.91

Assembly of RNA Polymerase II Complex	1.49	0.5	1.01
Huntington's Disease Signaling	3.97	1.35	2.65
Role of PI3K/AKT Signaling in the Pathogenesis of Influenza	1.67	0	0.82
Lymphotoxin β Receptor Signaling	1.95	0	0.95
p53 Signaling	1.62	0	0.76
Amyotrophic Lateral Sclerosis Signaling	1.67	0	0.79
Nitric Oxide Signaling in the Cardiovascular System	1.71	0	0.81
Protein Kinase A Signaling	1.45	0.76	1.07
Corticotropin Releasing Hormone Signaling	1.52	1.35	1.43
RANK Signaling in Osteoclasts	1.47	0.5	0.91
Adenosine Nucleotides Degradation II	1.01	1.34	0.55
Nucleotide Excision Repair Pathway	1.45	0.25	0.74
IL-17A Signaling in Fibroblasts	1.45	0.25	0.74
Inhibition of Angiogenesis by TSP1	1.58	0.28	0.8
Urate Biosynthesis/Inosine 5'-phosphate Degradation	1.12	1.46	0.6
Integrin Signaling	1.48	2.1	0.52
Myc Mediated Apoptosis Signaling	2.67	0.36	1.25
Guanosine Nucleotides Degradation III	1.18	1.53	0.63
Sonic Hedgehog Signaling	1.08	1.55	0.32
Telomerase Signaling	2.39	1.04	1.55
G α 12/13 Signaling	1.36	0.46	0.79
iCOS-iCOSL Signaling in T Helper Cells	1.86	0.65	1.06
Small Cell Lung Cancer Signaling	3.69	0.65	1.69
Paxillin Signaling	1.44	1.95	0.38
IL-17 Signaling	2.66	0.95	1.49
Role of PKR in Interferon Induction and Antiviral Response	2.5	0.62	1.21
HER-2 Signaling in Breast Cancer	1.99	0.52	0.94
NF- κ B Signaling	1.61	0	0.46
Docosahexaenoic Acid (DHA) Signaling	1.96	0.23	0.69
GP6 Signaling Pathway	3.58	0.56	1.36
Role of IL-17A in Arthritis	3.21	0.9	1.5
Adipogenesis pathway	1.7	0.44	0.77
Apelin Adipocyte Signaling Pathway	1.67	2.04	0.61
eNOS Signaling	2.49	0	0.61
Angiopoietin Signaling	1.78	0.29	0.65
IL-17A Signaling in Airway Cells	2.11	0.36	0.77
HMGB1 Signaling	1.96	0.53	0.87
Hereditary Breast Cancer Signaling	1.99	0.41	0.73
Endometrial Cancer Signaling	2.27	0	0.42
Non-Small Cell Lung Cancer Signaling	1.81	0	0.32
Prostate Cancer Signaling	2.89	0.48	0.87
CREB Signaling in Neurons	1.48	1	1.07
Cancer Drug Resistance By Drug Efflux	1.77	1.36	1.41

PEDF Signaling	3.17	0.25	0.57
Polyamine Regulation in Colon Cancer	1.37	1.05	1.07
FAT10 Signaling Pathway	1.6	1.2	1.23
Role of MAPK Signaling in the Pathogenesis of Influenza	1.73	1.01	1.06
MIF Regulation of Innate Immunity	1.78	1.15	1.18
GM-CSF Signaling	1.91	1.11	1.16
B Cell Receptor Signaling	2.68	1.25	1.33
NGF Signaling	1.3	0.58	0.62
Glioma Signaling	1.38	0.62	0.65
Molecular Mechanisms of Cancer	2.52	0.76	0.84
Apelin Endothelial Signaling Pathway	3.66	1.79	1.87
CD40 Signaling	1.58	0.74	0.77
PTEN Signaling	1.43	0.48	0.52
PKC θ Signaling in T Lymphocytes	1.36	0.34	0.37
NAD Phosphorylation and Dephosphorylation	1.32	0.68	0.7
IL-2 Signaling	1.67	0.39	0.41
Gluconeogenesis I	2.77	0.95	0.98
Relaxin Signaling	2.64	0.36	0.39
HIF1 α Signaling	2.19	0.33	0.35
Melanoma Signaling	1.49	0	0
Glucocorticoid Receptor Signaling	4.57	1.98	1.78
Role of NANOG in Mammalian Embryonic Stem Cell Pluripotency	2.03	0.3	0
F- κ B Activation by Viruses	2.05	0.54	0.26
Antiproliferative Role of Somatostatin Receptor 2	1.78	0.29	0
BMP signaling pathway	1.54	1.38	0.56
IL-6 Signaling	1.45	0.49	0.28
Endothelin-1 Signaling	1.87	0.91	0.67
Colorectal Cancer Metastasis Signaling	1.8	0.69	0.34
Factors Promoting Cardiogenesis in Vertebrates	1.37	1.25	0.86
Antioxidant Action of Vitamin C	1.53	0.68	0.41
Adrenomedullin signaling pathway	3.26	1.12	0.38
Ovarian Cancer Signaling	1.58	0.41	0
Estrogen-Dependent Breast Cancer Signaling	2.94	1.58	1.11
RAR Activation	1.7	1.13	0.88
fMLP Signaling in Neutrophils	1.65	1.31	0.6
Role of Tissue Factor in Cancer	1.63	0.56	0
Wnt/ β -catenin Signaling	1.71	1.37	0.76
Glycine Betaine Degradation	2.34	1.68	0.7
Regulation of IL-2 Expression in Activated and Anergic T Lymphocytes	1.87	1.29	0.88
Apelin Pancreas Signaling Pathway	1.74	1.12	0.61
Regulation of the Epithelial-Mesenchymal Transition Pathway	1.7	1.13	0.6
IL-8 Signaling	1.32	1.09	0.85
LPS-stimulated MAPK Signaling	1.56	0.92	0.26

Alanine Degradation III	1.15	0	1.36
UDP-D-xylose and UDP-D-glucuronate Biosynthesis	1.15	0	1.36
Alanine Biosynthesis II	1.15	0	1.36
GADD45 Signaling	1.54	0	0.46
Superpathway of Methionine Degradation	2.86	0.72	0
Cysteine Biosynthesis III (mammalia)	1.37	0.4	0
2-oxobutanoate Degradation I	1.93	0.96	0
Basal Cell Carcinoma Signaling	1.41	0.66	0
Methylmalonyl Pathway	2.14	1.05	0
Methionine Degradation I (to Homocysteine)	1.48	0.43	0
DNA damage-induced 14-3-3 σ Signaling	1.54	0	1.19
Role of p14/p19ARF in Tumor Suppression	1.78	0	0

B. Pathways showing a decreased trend in a time dependent manner in the survivor/non-survivor cohort.

Up_D1-D3_survivors			
Canonical Pathways	SD1 vs. Baseline	SD2 vs. Baseline	SD3 vs. Baseline
Amyloid Processing	2.72	1.651	0.549
Tight Junction Signaling	1.42	1.157	0.855
NF-κB Signaling	1.96	1.063	0.296
Germ Cell-Sertoli Cell Junction Signaling	3.03	2.489	2.07
Sertoli Cell-Sertoli Cell Junction Signaling	2.24	1.372	0.742
Tec Kinase Signaling	1.53	1.236	0.609
Molecular Mechanisms of Cancer	1.68	0.895	0.732
Lymphotoxin β Receptor Signaling	1.39	0	0
Crosstalk between Dendritic Cells and Natural Killer Cells	1.39	0.241	0.252
Glucose and Glucose-1-phosphate Degradation	1.62	0.85	0.86
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.51	0.797	0.807
TNFR1 Signaling	2.82	1.075	1.1
nNOS Signaling in Neurons	1.63	0.584	0.6
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	1.46	0.435	0.459
Acute Phase Response Signaling	1.92	0.73	0.765
HMGB1 Signaling	1.59	0.908	0.946
Atherosclerosis Signaling	1.53	0.92	0.954
HER-2 Signaling in Breast Cancer	1.99	1.458	1.498
Erythropoietin Signaling	2.81	2.229	2.282
Bladder Cancer Signaling	1.66	1.25	1.288
Actin Cytoskeleton Signaling	2.36	1.761	1.83
Glioma Signaling	1.38	1.064	1.1
FAK Signaling	2.19	1.797	1.847
Regulation of Cellular Mechanics by Calpain Protease	1.57	1.31	1.344
PAK Signaling	2.13	1.756	1.805
Death Receptor Signaling	1.82	0	0.247
Induction of Apoptosis by HIV1	2.26	0	0.444
Apoptosis Signaling	3.12	0.794	1.257
Hepatic Cholestasis	4.13	1.819	2.352
IL-15 Production	1.59	0.33	0.628
FXR/RXR Activation	1.45	0.296	0.573
Sperm Motility	1.7	0.519	0.806
ErbB4 Signaling	2.04	1.861	1.905
Neuregulin Signaling	3.27	3.02	3.092

Systemic Lupus Erythematosus In B Cell Signaling Pathway	2.14	0.922	1.27
Airway Inflammation in Asthma	2.14	2.57	1.09
LXR/RXR Activation	2.38	0.315	0.954
Neuroprotective Role of THOP1 in Alzheimer's Disease	1.38	1.516	1.1
IL-6 Signaling	1.45	0.549	0.91
PXR/RXR Activation	1.13	1.331	0.836
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.85	0.451	1.049
Fcy Receptor-mediated Phagocytosis in Macrophages and Monocytes	3.31	1.818	2.465
GP6 Signaling Pathway	2.06	0.977	1.449
FLT3 Signaling in Hematopoietic Progenitor Cells	1.64	1.557	1.598
Coagulation System	2.11	0.761	1.437
Virus Entry via Endocytic Pathways	1.84	2.076	1.598
14-3-3-mediated Signaling	2.25	1.26	1.768
Type II Diabetes Mellitus Signaling	2.8	1.085	2.023
Extrinsic Prothrombin Activation Pathway	1.74	0.532	1.363
PTEN Signaling	1.43	1.714	1.303
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	1.6	0.489	1.269
Differential Regulation of Cytokine Production in Intestinal Epithelial Cells by IL-17A and IL-17F	1.32	0.405	1.08
PPAR Signaling	2.48	1.659	2.268
JAK/Stat Signaling	1.18	1.536	1.058
Semaphorin Signaling in Neurons	2.39	1.467	2.168
Insulin Receptor Signaling	1.27	1.57	1.186
BMP signaling pathway	1.11	1.477	1.014
Regulation of Actin-based Motility by Rho Factors Promoting Cardiogenesis in Vertebrates	1.02	1.384	0.944
	0.98	1.349	0.918
Synaptogenesis Signaling Pathway	1.29	2.157	1.222
Fc Epsilon RI Signaling	2.5	3.014	2.485
Ceramide Signaling	1.42	0.915	1.424
Macropinocytosis Signaling	2.24	1.621	2.282
Epithelial Adherens Junction Signaling	1.36	1.794	1.408
Thyroid Cancer Signaling	0.99	1.651	1.059
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	0.71	2.184	0.923
NAD biosynthesis II (from tryptophan)	0.45	1.578	0.649
Ovarian Cancer Signaling	0.91	1.996	1.15

LPS-stimulated MAPK Signaling	2.58	2.071	2.777
PDGF Signaling	0.71	1.42	0.971
G Beta Gamma Signaling	1.51	2.309	1.838
Acute Myeloid Leukemia Signaling	1.02	1.928	1.424
Autophagy	0.53	1.568	1.001
IGF-1 Signaling	0.77	1.604	1.168
Opioid Signaling Pathway	2.88	2.598	3.168
eNOS Signaling	1.33	0.956	1.823
Rac Signaling	1.36	2.583	2.07
Renal Cell Carcinoma Signaling	0.83	2.175	1.62
IL-4 Signaling	0.77	2.071	1.537
PEDF Signaling	0.77	2.071	1.537
Cholecystokinin/Gastrin-mediated Signaling	1.61	1.389	1.931
D-myo-inositol (1,4,5)-trisphosphate Degradation	1.67	1.294	2.301
LPS/IL-1 Mediated Inhibition of RXR Function	0.87	0.525	1.474
D-myo-inositol (1,3,4)-trisphosphate Biosynthesis	1.6	1.249	2.228
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	1.6	1.249	2.228
Caveolar-mediated Endocytosis Signaling	1.33	1.14	1.731
Superpathway of D-myo-inositol (1,4,5)-trisphosphate Metabolism	1.32	1.061	1.925
Synaptic Long Term Depression	1.21	1.014	1.841
ERK5 Signaling	0.94	0.694	1.754
Granulocyte Adhesion and Diapedesis	1.8	1.574	2.586
Apelin Endothelial Signaling Pathway	1.67	1.435	2.555
MIF-mediated Glucocorticoid Regulation	0.92	0.781	1.47
Growth Hormone Signaling	1.87	1.736	2.428
Estrogen Receptor Signaling	0.66	0.467	1.591
Protein Kinase A Signaling	0.67	2.388	2.137
Estrogen-Dependent Breast Cancer Signaling	1.33	1.14	3.075
Putrescine Degradation III	0.34	1.294	1.314
Tryptophan Degradation X (Mammalian, via Tryptamine)	0.83	2.13	2.16
Glutamine Biosynthesis I	1.45	1.667	1.678
Putrescine Biosynthesis III	1.15	1.371	1.382
Oncostatin M Signaling	1.17	1.871	1.908
Role of JAK1 and JAK3 in γ c Cytokine Signaling	1.04	1.835	1.879
α -Adrenergic Signaling	1.31	2.405	2.465
Angiopoietin Signaling	0.9	1.666	1.708
ErbB2-ErbB3 Signaling	0.71	1.31	1.344

Chemokine Signaling	0.85	1.599	1.641
3-phosphoinositide Degradation Superpathway of Inositol Phosphate Compounds	0.54	1.372	1.421
Phagosome Maturation	1.19	1.26	1.312
Synaptic Long Term Potentiation	0.78	1.961	2.023
Prolactin Signaling	2.08	1.26	1.303
IL-3 Signaling	2.14	2.745	2.808
VEGF Family Ligand-Receptor Interactions	1.51	2.808	2.871
Agrin Interactions at Neuromuscular Junction	1.72	2.022	2.073
Breast Cancer Regulation by Stathmin1	1.26	2.229	2.282
Melanocyte Development and Pigmentation Signaling	0.92	1.95	2.022
Thrombopoietin Signaling	2.15	1.282	1.32
GNRH Signaling	1.37	2.636	2.691
NGF Signaling	0.95	1.939	2.006
IL-15 Signaling	1.38	1.013	1.497
IL-2 Signaling	1.67	1.736	1.778
mTOR Signaling	2.19	2.001	2.045
Natural Killer Cell Signaling	3	2.333	3.428
Endometrial Cancer Signaling	0.78	3.657	3.746
UVC-Induced MAPK Signaling	2.03	0.858	1.431
Renin-Angiotensin Signaling	2.03	2.328	2.375
Systemic Lupus Erythematosus Signaling	0.58	2.418	2.485
Leukocyte Extravasation Signaling	1.66	0.712	1.376
CNTF Signaling	1.31	2.037	2.11
Integrin Signaling	2.15	1.491	2.201
Role of Tissue Factor in Cancer	1.25	2.302	2.867
Nitric Oxide Signaling in the Cardiovascular System	2.19	1.404	1.95
PPAR α /RXR α Activation	1.25	2.379	2.439
ErbB Signaling	2.22	1.407	1.885
HGF Signaling	1.36	2.405	2.465
GDNF Family Ligand-Receptor Interactions	0.29	1.5	1.546
p70S6K Signaling	1.05	0.649	1.663
Agranulocyte Adhesion and Diapedesis	1.28	1.233	1.735
CXCR4 Signaling	1.82	1.432	1.487
NF- κ B Activation by Viruses	2.05	2.035	2.606
IL-8 Signaling	1.63	2.071	2.123
Axonal Guidance Signaling	1.31	2.007	2.548
CCR3 Signaling in Eosinophils	1.96	1.889	2.317
fMLP Signaling in Neutrophils	0.64	2.936	3.656
Myc Mediated Apoptosis Signaling	0.38	0.989	1.465
		0.784	1.323

Paxillin Signaling	1.07	1.568	2.155
Ephrin Receptor Signaling	1.25	1.819	2.352
TNFR2 Signaling	2.47	0	0.338
TCA Cycle II (Eukaryotic)	0	1.844	0.399
Dolichyl-diphosphooligosaccharide Biosynthesis	1.32	0	0.719
Estrogen Biosynthesis	0.79	0	2.056

Down_D1-D3_survivors

	SD1 vs. Baseline	SD2 vs. Baseline	SD3 vs. Baseline
Canonical Pathways			
FAT10 Signaling Pathway	1.94	1.79	1.58
NGF Signaling	1.96	1.44	1.11
Apelin Adipocyte Signaling Pathway	1.74	1.26	0.52
Ovarian Cancer Signaling	1.49	0.71	0.23
PFKFB4 Signaling Pathway	1.47	1.04	0.86
Induction of Apoptosis by HIV1	1.66	1.55	1.27
Polyamine Regulation in Colon Cancer	1.7	1.62	1.42
Apelin Endothelial Signaling Pathway	2.45	1.43	1.1
ATM Signaling	1.83	1.05	0.81
Circadian Rhythm Signaling	1.95	1.29	1.1
Prostate Cancer Signaling	2	1.13	0.88
Glycine Betaine Degradation	1.55	0.98	0.88
Heme Biosynthesis II	1.64	1.02	0.92
HER-2 Signaling in Breast Cancer	1.6	0.63	0.48
Small Cell Lung Cancer Signaling	1.93	0.74	0.57
Integrin Signaling	1.64	1.59	1.14
Sonic Hedgehog Signaling	1.38	0.56	0.47
Role of p14/p19ARF in Tumor Suppression	1.42	0.58	0.48
BAG2 Signaling Pathway	3.08	2.94	1.67
NAD Salvage Pathway II	1.75	0.68	0.59
Adrenomedullin signaling pathway	1.83	1.71	1.7
Huntington's Disease Signaling	3.69	1.82	1.72
Apelin Liver Signaling Pathway	1.5	1.48	0.51
Osteoarthritis Pathway	1.62	1.11	1.12
GP6 Signaling Pathway	2.4	0.87	1.08
Hereditary Breast Cancer Signaling	1.5	0.35	0.51
Estrogen-Dependent Breast Cancer Signaling	3.13	0.72	1.07
Pancreatic Adenocarcinoma Signaling	2.61	1.5	1.72
Dendritic Cell Maturation	1.36	0.91	1
Inhibition of Angiogenesis by TSP1	1.27	1.32	1.12
Adipogenesis pathway	2.04	2.47	0.93
Myc Mediated Apoptosis Signaling	2.11	0.8	1.19
MIF Regulation of Innate Immunity	1.59	1.96	0.92
Telomerase Signaling	1.66	0.97	1.22
Paxillin Signaling	1.62	0.95	1.19
Apelin Pancreas Signaling Pathway	1.56	1.93	0.91
Basal Cell Carcinoma Signaling	0.93	1.38	0.2
Docosahexaenoic Acid (DHA) Signaling	1.74	0.46	1
B Cell Receptor Signaling	2.46	1.31	1.84
CD27 Signaling in Lymphocytes	1.9	0.95	1.43

Cancer Drug Resistance By Drug Efflux	1.71	0.88	1.31
FGF Signaling	1.6	0.22	0.93
Angiopoietin Signaling	1.32	0.71	1.06
Glucocorticoid Receptor Signaling	2.06	0.3	1.31
Neuroinflammation Signaling Pathway	2.28	0.67	1.64
Phagosome Maturation	1.46	1.71	1.31
Noradrenaline and Adrenaline Degradation	0.72	1.37	0.46
PCP pathway	1.11	2.37	0.68
GM-CSF Signaling	1.4	0.27	1.11
Androgen Signaling	0.81	1.78	0.52
RANK Signaling in Osteoclasts	1.55	1.16	1.47
PEDF Signaling	1.64	0.64	1.53
GNRH Signaling	1.06	1.4	1.02
RAR Activation	2.26	1.72	2.22
iCOS-iCOSL Signaling in T Helper Cells	1.62	0.49	1.76
Role of PKR in Interferon Induction and Antiviral Response	1.63	1.13	1.69
NF-κB Signaling	1.32	0.89	1.4
HOTAIR Regulatory Pathway	1.6	1.54	1.62
ILK Signaling	1.56	0.83	1.78
Nur77 Signaling in T Lymphocytes	1.27	0.94	1.41
Role of IL-17A in Arthritis	1.25	0.93	1.39
Granzyme B Signaling	2.08	0.79	2.86
FAT10 Cancer Signaling Pathway	2.12	2.79	2.39
Type I Diabetes Mellitus Signaling	1.17	0.48	1.74
Th2 Pathway	1.17	0.37	1.93
Protein Kinase A Signaling	1.27	1.21	1.32
Assembly of RNA Polymerase III Complex	1.4	0.91	1.92
Molecular Mechanisms of Cancer	1.26	0.88	1.66
Th1 and Th2 Activation Pathway	0.79	0.26	1.49
Sumoylation Pathway	2.24	3.9	3.23
IL-17 Signaling	1.2	0.66	2.25
Activation of IRF by Cytosolic Pattern Recognition Receptors	0.65	1.53	1.25
4-1BB Signaling in T Lymphocytes	0.68	1.32	1.12
Heme Biosynthesis from Uroporphyrinogen-III I	0.99	1.36	1.26
Catecholamine Biosynthesis	0.99	1.36	1.26
Glycine Degradation (Creatine Biosynthesis)	1.28	1.66	1.55
CD28 Signaling in T Helper Cells	1.05	0.88	1.62
Caveolar-mediated Endocytosis Signaling	0.88	0.72	1.7
Regulation of the Epithelial-Mesenchymal Transition Pathway	1.48	1.22	2.78
IL-22 Signaling	0.87	0.63	2.34
IL-17A Signaling in Airway Cells	1.03	0.81	2.67
NF-κB Activation by Viruses	0.75	0.64	1.53
Protein Ubiquitination Pathway	0.37	0.25	1.42

Inflammasome pathway	1	0.7	3.8
Wnt/ β -catenin Signaling	1.78	1.95	1.96
Role of IL-17F in Allergic Inflammatory Airway Diseases	1.02	1.13	1.69
IL-12 Signaling and Production in Macrophages	0.57	0.76	1.42
Factors Promoting Cardiogenesis in Vertebrates	1.03	1.12	1.41
OX40 Signaling Pathway	0.74	0.91	1.37
Regulation of IL-2 Expression in Activated and Anergic T Lymphocytes	1.06	1.79	2.08
Role of JAK1, JAK2 and TYK2 in Interferon Signaling	0.32	0.63	1.35
Role of JAK family kinases in IL-6-type Cytokine Signaling	0.31	0.62	1.31
IL-17A Signaling in Gastric Cells	0.84	1.52	2.29
iNOS Signaling	0.48	1.08	1.61
Wnt/Ca ⁺ pathway	1.09	1.53	1.96
Guanosine Nucleotides Degradation III	1.4	0	0.8
Gluconeogenesis I	1.55	0.62	0
Urate Biosynthesis/Inosine 5'-phosphate Degradation	1.34	0	0.77
Tumoricidal Function of Hepatic Natural Killer Cells	1.59	0	0.54
PRPP Biosynthesis I	1.11	1.49	0
NAD Biosynthesis III	0.99	1.36	0
L-DOPA Degradation	1.28	1.66	0
Thio-molybdenum Cofactor Biosynthesis	1.57	0	0
DNA Double-Strand Break Repair by Non-Homologous End Joining	0	0	1.79

Up_D1-D3_non_survivors			
	SD1 vs. Baseline	SD2 vs. Baseline	SD3 vs. Baseline
Canonical Pathways			
IL-3 Signaling	2.94	2.46	1.99
Hepatic Cholestasis	3.1	2.79	2.49
HER-2 Signaling in Breast Cancer	2.21	1.77	1.37
Amyotrophic Lateral Sclerosis Signaling	1.42	1.08	0.77
Erythropoietin Signaling	2.5	1.99	1.55
Epithelial Adherens Junction Signaling	1.77	1.31	0.76
Growth Hormone Signaling	2.15	1.61	1.19
Regulation of Cellular Mechanics by Calpain Protease	1.87	1.29	0.89
NF-κB Signaling	1.61	0.97	0.54
Type II Diabetes Mellitus Signaling	3.32	2.78	1.97
Induction of Apoptosis by HIV1	1.5	0.92	0.56
nNOS Signaling in Skeletal Muscle Cells	1.68	1.43	0.92
Iron homeostasis signaling pathway	1.43	0.63	0.25
Role of JAK2 in Hormone-like Cytokine Signaling	1.43	0.57	0.2
LPS/IL-1 Mediated Inhibition of RXR Function	1.67	1.15	0.96
Cyclins and Cell Cycle Regulation	1.39	0.61	0.36
Tec Kinase Signaling	1.92	1.17	0.94
TNFR2 Signaling	2.27	0.63	0.23
Death Receptor Signaling	2.01	0.81	0.53
CXCR4 Signaling	1.5	1.45	1.2
Netrin Signaling	1.35	1.26	0.87
Semaphorin Signaling in Neurons	2.14	2.05	1.53
Ephrin Receptor Signaling	1.58	1.58	1.34
Phenylalanine Degradation IV (Mammalian, via Side Chain)	1.78	0.44	0.45
nNOS Signaling in Neurons	2.02	0.37	0.39
IL-15 Production	1.33	0.29	0.31
Cell Cycle: G1/S Checkpoint Regulation	1.32	0.46	0.49
Germ Cell-Sertoli Cell Junction Signaling	2.57	2.62	1.51
Mechanisms of Viral Exit from Host Cells	1.64	0.86	0.89
Extrinsic Prothrombin Activation Pathway	1.62	1.05	1.08
Macropinocytosis Signaling	1.97	1.99	1.55
Putrescine Degradation III	1.55	1	1.03
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	1.48	0.96	0.99
Apoptosis Signaling	2.74	1.45	1.52
TNFR1 Signaling	1.93	1.19	1.24
IL-4 Signaling	2.28	1.34	1.41
CNTF Signaling	1.63	1	1.04
1D-myo-inositol Hexakisphosphate Biosynthesis II (Mammalian)	2.31	1.74	1.79
JAK/Stat Signaling	1.84	1.88	1.46

Amyloid Processing	2.46	1.69	1.75
Phagosome Maturation	1.99	1.12	1.19
Salvage Pathways of Pyrimidine Ribonucleotides	1.44	1.51	0.79
Bladder Cancer Signaling	1.42	1.49	0.77
NF-κB Activation by Viruses	1.78	1.82	1.41
Pyridoxal 5'-phosphate Salvage Pathway	1.87	1.29	1.35
CCR3 Signaling in Eosinophils	2.07	1.44	1.52
Actin Cytoskeleton Signaling	1.33	1.41	0.93
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	1.67	1.86	0.77
Systemic Lupus Erythematosus In B Cell Signaling Pathway	2.31	0.66	0.95
FAK Signaling	1.47	1.53	1.17
Role of Tissue Factor in Cancer	1.37	1.51	0.85
Tight Junction Signaling	1.45	1.08	1.16
Oncostatin M Signaling	1.56	1.34	1.39
Glioma Signaling	1.93	0.58	0.94
Thyroid Cancer Signaling	1.32	1.14	1.19
GP6 Signaling Pathway	2.64	1.12	1.59
PPAR Signaling	1.71	1.83	1.46
Integrin Signaling	1.45	1.52	1.31
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	1.78	2.22	0.95
IL-8 Signaling	1.61	1.34	1.44
Virus Entry via Endocytic Pathways	1.57	1.69	1.35
Fcy Receptor-mediated Phagocytosis in Macrophages and Monocytes	2.41	1.13	1.63
3-phosphoinositide Degradation	1.44	1.7	1.07
UVC-Induced MAPK Signaling	1.81	1.66	1.72
p70S6K Signaling	1.49	0.66	1.02
Aryl Hydrocarbon Receptor Signaling	1.32	0.57	0.9
Molecular Mechanisms of Cancer	1.46	0.8	1.1
mTOR Signaling	1.79	1.9	1.66
14-3-3-mediated Signaling	1.19	1.33	1.04
Granulocyte Adhesion and Diapedesis	1.48	1.8	1.18
Acute Phase Response Signaling	1.58	2.36	1.02
Ceramide Signaling	1.21	1.67	0.89
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.51	1.88	1.28
Coagulation System	1.92	2.34	1.68
Pancreatic Adenocarcinoma Signaling	1.54	0.89	1.33
Superpathway of Inositol Phosphate Compounds	1.09	1.73	0.89
Renin-Angiotensin Signaling	2.61	2.92	2.52
Atherosclerosis Signaling	1.28	1.83	1.12
eNOS Signaling	1.39	1.28	1.37
Osteoarthritis Pathway	1.14	1.83	0.99
FXR/RXR Activation	1.2	2.69	1.06
Fc Epsilon RI Signaling	3.1	2.4	3.05

LXR/RXR Activation	1.64	3.92	1.5
Axonal Guidance Signaling	0.76	1.61	0.74
Natural Killer Cell Signaling	3.63	3.48	3.63
IL-2 Signaling	1.98	1.36	1.98
FLT3 Signaling in Hematopoietic Progenitor Cells	1.02	1.41	1.03
Agranulocyte Adhesion and Diapedesis	1.02	1.61	1.05
Role of JAK1 and JAK3 in γ c Cytokine Signaling	1.77	1.22	1.79
Estrogen-Dependent Breast Cancer Signaling	1.58	1.09	1.63
Glucose and Glucose-1-phosphate Degradation	0.61	1.72	0.71
IL-12 Signaling and Production in Macrophages	0.83	2.08	0.99
IL-15 Signaling	2.15	1.61	2.24
Thrombopoietin Signaling	1.9	1.84	1.92
Maturity Onset Diabetes of Young (MODY) Signaling	0.72	1.62	0.91
Sertoli Cell-Sertoli Cell Junction Signaling	1.23	1.53	1.3
BER pathway	1.09	0.49	1.3
Nitric Oxide Signaling in the Cardiovascular System	1.47	2.01	1.61
Synaptogenesis Signaling Pathway	1.4	0.96	1.58
HGF Signaling	1.14	1.63	1.29
Rac Signaling	1.14	1.63	1.29
Leukocyte Extravasation Signaling	1.34	1.7	1.46
Protein Kinase A Signaling	1.7	1.44	1.86
PPAR α /RXR α Activation	1.27	2.36	1.69
G Beta Gamma Signaling	1.62	2.27	1.91
Apelin Endothelial Signaling Pathway	1.41	1.16	1.63
G α s Signaling	1.21	0.61	1.81
PAK Signaling	1.42	2.47	2.05
Caveolar-mediated Endocytosis Signaling	1.58	1.56	1.63
Agrin Interactions at Neuromuscular Junction	1.08	2.57	2.08
GNRH Signaling	1.4	2.53	2.23
Opioid Signaling Pathway	2.72	2.69	2.87
VEGF Family Ligand-Receptor Interactions	1.3	1.3	1.37
ErbB2-ErbB3 Signaling	0.6	1.29	1.35
G α 12/13 Signaling	0.58	1.27	1.34
Threonine Degradation II	1.4	1.5	1.52
Glutamine Biosynthesis I	1.4	1.5	1.52
Airway Inflammation in Asthma	3.61	3.91	3.96
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.42	1.61	1.64
D-myo-inositol (1,4,5)-trisphosphate Degradation	1.55	1.81	1.86
D-myo-inositol (1,3,4)-trisphosphate Biosynthesis	1.48	1.74	1.79
Tryptophan Degradation X (Mammalian, via Tryptamine)	1.42	1.68	1.72
Superpathway of D-myo-inositol (1,4,5)-trisphosphate Metabolism	1.21	1.46	1.5
ErbB4 Signaling	1.8	2.33	2.42
PXR/RXR Activation	0.97	1.31	1.37

PEDF Signaling	0.96	1.34	1.41
RAR Activation	0.63	0.82	1.85
Ovarian Cancer Signaling	1	1.14	1.6
Inhibition of Matrix Metalloproteases	0.72	0.93	1.56
Prolactin Signaling	1.81	1.85	1.93
Neuregulin Signaling	2.89	3.11	3.24
Cholecystokinin/Gastrin-mediated Signaling	1.35	1.49	1.58
α -Adrenergic Signaling	1.49	1.55	1.63
HIF1 α Signaling	0.81	1.21	1.7
Neuroprotective Role of THOP1 in Alzheimer's Disease	1.16	1.24	1.31
LPS-stimulated MAPK Signaling	2.28	2.36	2.46
ErbB Signaling	1.93	2.04	2.13
Protein Citrullination	0.73	0	2.06

Down_D1-D3_non_survivors			
	SD1 vs. Baseline	SD2 vs. Baseline	SD3 vs. Baseline
Canonical Pathways			
LPS-stimulated MAPK Signaling	1.56	0.92	0.26
IL-8 Signaling	1.32	1.09	0.85
Regulation of the Epithelial-Mesenchymal Transition Pathway	1.7	1.13	0.6
Apelin Pancreas Signaling Pathway	1.74	1.12	0.61
Regulation of IL-2 Expression in Activated and Anergic T Lymphocytes	1.87	1.29	0.88
Glycine Betaine Degradation	2.34	1.68	0.7
Wnt/ β -catenin Signaling	1.71	1.37	0.76
Role of Tissue Factor in Cancer	1.63	0.56	0
fMLP Signaling in Neutrophils	1.65	1.31	0.6
RAR Activation	1.7	1.13	0.88
Estrogen-Dependent Breast Cancer Signaling	2.94	1.58	1.11
Ovarian Cancer Signaling	1.58	0.41	0
Adrenomedullin signaling pathway	3.26	1.12	0.38
Antioxidant Action of Vitamin C	1.53	0.68	0.41
Factors Promoting Cardiogenesis in Vertebrates	1.37	1.25	0.86
Colorectal Cancer Metastasis Signaling	1.8	0.69	0.34
Endothelin-1 Signaling	1.87	0.91	0.67
IL-6 Signaling	1.45	0.49	0.28
BMP signaling pathway	1.54	1.38	0.56
Antiproliferative Role of Somatostatin Receptor 2	1.78	0.29	0
NF- κ B Activation by Viruses	2.05	0.54	0.26
Role of NANOG in Mammalian Embryonic Stem Cell Pluripotency	2.03	0.3	0
Glucocorticoid Receptor Signaling	4.57	1.98	1.78
Melanoma Signaling	1.49	0	0
HIF1 α Signaling	2.19	0.33	0.35
Relaxin Signaling	2.64	0.36	0.39
Gluconeogenesis I	2.77	0.95	0.98
IL-2 Signaling	1.67	0.39	0.41
NAD Phosphorylation and Dephosphorylation	1.32	0.68	0.7
PKC θ Signaling in T Lymphocytes	1.36	0.34	0.37
PTEN Signaling	1.43	0.48	0.52
CD40 Signaling	1.58	0.74	0.77
Apelin Endothelial Signaling Pathway	3.66	1.79	1.87
Molecular Mechanisms of Cancer	2.52	0.76	0.84
Glioma Signaling	1.38	0.62	0.65
NGF Signaling	1.3	0.58	0.62
B Cell Receptor Signaling	2.68	1.25	1.33
GM-CSF Signaling	1.91	1.11	1.16
MIF Regulation of Innate Immunity	1.78	1.15	1.18
Role of MAPK Signaling in the Pathogenesis of Influenza	1.73	1.01	1.06

FAT10 Signaling Pathway	1.6	1.2	1.23
Polyamine Regulation in Colon Cancer	1.37	1.05	1.07
PEDF Signaling	3.17	0.25	0.57
Cancer Drug Resistance By Drug Efflux	1.77	1.36	1.41
CREB Signaling in Neurons	1.48	1	1.07
Prostate Cancer Signaling	2.89	0.48	0.87
Non-Small Cell Lung Cancer Signaling	1.81	0	0.32
Endometrial Cancer Signaling	2.27	0	0.42
Hereditary Breast Cancer Signaling	1.99	0.41	0.73
HMGB1 Signaling	1.96	0.53	0.87
IL-17A Signaling in Airway Cells	2.11	0.36	0.77
Angiopoietin Signaling	1.78	0.29	0.65
eNOS Signaling	2.49	0	0.61
Apelin Adipocyte Signaling Pathway	1.67	2.04	0.61
Adipogenesis pathway	1.7	0.44	0.77
Role of IL-17A in Arthritis	3.21	0.9	1.5
GP6 Signaling Pathway	3.58	0.56	1.36
Docosahexaenoic Acid (DHA) Signaling	1.96	0.23	0.69
NF-κB Signaling	1.61	0	0.46
HER-2 Signaling in Breast Cancer	1.99	0.52	0.94
Role of PKR in Interferon Induction and Antiviral Response	2.5	0.62	1.21
IL-17 Signaling	2.66	0.95	1.49
Paxillin Signaling	1.44	1.95	0.38
Small Cell Lung Cancer Signaling	3.69	0.65	1.69
iCOS-iCOSL Signaling in T Helper Cells	1.86	0.65	1.06
Gα12/13 Signaling	1.36	0.46	0.79
Telomerase Signaling	2.39	1.04	1.55
Sonic Hedgehog Signaling	1.08	1.55	0.32
Guanosine Nucleotides Degradation III	1.18	1.53	0.63
Myc Mediated Apoptosis Signaling	2.67	0.36	1.25
Integrin Signaling	1.48	2.1	0.52
Urate Biosynthesis/Inosine 5'-phosphate Degradation	1.12	1.46	0.6
Inhibition of Angiogenesis by TSP1	1.58	0.28	0.8
Nucleotide Excision Repair Pathway	1.45	0.25	0.74
IL-17A Signaling in Fibroblasts	1.45	0.25	0.74
Adenosine Nucleotides Degradation II	1.01	1.34	0.55
RANK Signaling in Osteoclasts	1.47	0.5	0.91
Corticotropin Releasing Hormone Signaling	1.52	1.35	1.43
Protein Kinase A Signaling	1.45	0.76	1.07
Nitric Oxide Signaling in the Cardiovascular System	1.71	0	0.81
Amyotrophic Lateral Sclerosis Signaling	1.67	0	0.79
p53 Signaling	1.62	0	0.76
Lymphotoxin β Receptor Signaling	1.95	0	0.95

Role of PI3K/AKT Signaling in the Pathogenesis of Influenza	1.67	0	0.82
Huntington's Disease Signaling	3.97	1.35	2.65
Assembly of RNA Polymerase II Complex	1.49	0.5	1.01
OX40 Signaling Pathway	1.34	0.44	0.91
Phagosome Maturation	1.19	1.37	1.04
Neuroinflammation Signaling Pathway	1.49	0.88	1.23
Heme Biosynthesis II	2.49	0.72	1.8
BAG2 Signaling Pathway	3.18	1.81	2.65
NAD Salvage Pathway II	1.43	1.93	1.11
Systemic Lupus Erythematosus In T Cell Signaling Pathway	1.63	0.42	1.29
ATM Signaling	2.13	0.42	1.7
PCP pathway	0.78	1.92	0.42
Pancreatic Adenocarcinoma Signaling	2.27	0.99	1.99
Androgen Signaling	1.63	1.04	1.51
Induction of Apoptosis by HIV1	2.27	0.8	1.98
TWEAK Signaling	1.49	0.26	1.41
Rac Signaling	1	2.41	1.01
GNRH Signaling	1.07	1.37	1.08
CD27 Signaling in Lymphocytes	1.43	0.47	1.56
FAT10 Cancer Signaling Pathway	1.63	1.05	1.73
Tetrapyrrole Biosynthesis II	1.93	0.96	2.33
Granzyme B Signaling	1.75	0.51	2.31
Sumoylation Pathway	2.48	3.28	2.74
Role of NFAT in Cardiac Hypertrophy	1.11	0.67	1.34
Aldosterone Signaling in Epithelial Cells	1.65	0.84	2.13
DNA Double-Strand Break Repair by Homologous Recombination	1.06	0.56	1.43
Stearate Biosynthesis I (Animals)	0.68	1.74	1.14
Signaling by Rho Family GTPases	0.45	1.63	1.06
Cardiac β -adrenergic Signaling	1.21	0.67	1.91
Cardiac Hypertrophy Signaling (Enhanced)	1.45	1.85	1.71
tRNA Charging	0.81	0.23	2.02
Osteoarthritis Pathway	0.91	0.7	1.39
Opioid Signaling Pathway	1	0.96	1.34
ILK Signaling	1.16	1.19	2.55
Glycine Degradation (Creatine Biosynthesis)	1.15	1.34	1.36
L-DOPA Degradation	1.15	1.34	1.36
Superpathway of Citrulline Metabolism	1.01	1.34	1.37
Fatty Acid α -oxidation	0.96	1.29	1.32
cAMP-mediated signaling	0.74	0.84	1.56
Inflammasome pathway	0.8	1.12	3.06
Chemokine Signaling	0.85	1	1.56
Calcium Signaling	0.38	0.77	1.49
nNOS Signaling in Skeletal Muscle Cells	0.77	1.2	1.94

Cell Cycle Control of Chromosomal Replication	0.86	1.4	2.11
GADD45 Signaling	1.54	0	0.46
Superpathway of Methionine Degradation	2.86	0.72	0
Cysteine Biosynthesis III (mammalia)	1.37	0.4	0
2-oxobutanoate Degradation I	1.93	0.96	0
Basal Cell Carcinoma Signaling	1.41	0.66	0
Methylmalonyl Pathway	2.14	1.05	0
Methionine Degradation I (to Homocysteine)	1.48	0.43	0
DNA damage-induced 14-3-3 σ Signaling	1.54	0	1.19
Alanine Degradation III	1.15	0	1.36
UDP-D-xylose and UDP-D-glucuronate Biosynthesis	1.15	0	1.36
Alanine Biosynthesis II	1.15	0	1.36
Role of p14/p19ARF in Tumor Suppression	1.78	0	0