

Table S7 - BL-Down super-group DEGs

Ensembl ID	Symbol	GeneName	FPKM ^a				MII:8-Cell		8-Cell:Morula		Morula:Blast		Sub-Group
			MI	8Cell	Morula	Exp. Blast	L2FC ^b	FDR ^c	L2FC	FDR	L2FC	FDR	
ENSMMUG00000020432	OSCP1	Organic Solute Carrier Partner 1	2.53	2.61	3.12	0.25	0.49	7.14E-01	-0.16	9.17E-01	-4.45	8.18E-05	BL-Down-1
ENSMMUG00000010328	MEAF6	MYST/Esa1 Associated Factor 6	19.31	10.74	15.61	8.46	-0.98	1.30E-01	0.75	2.62E-01	-1.64	2.95E-02	BL-Down-1
ENSMMUG00000011645	DMAP1	DNA Methyltransferase 1 Associated Protein 1	8.59	21.11	12.35	5.55	0.14	9.34E-01	-0.99	4.31E-01	-2.85	3.50E-02	BL-Down-1
ENSMMUG00000007182	LRRC42	Leucine Rich Repeat Containing 42	38.98	21.02	12.24	4.58	-0.89	2.03E-01	-0.62	4.04E-01	-1.86	1.82E-02	BL-Down-1
ENSMMUG00000013679	ACOT11	Acyl-CoA Thioesterase 11	0.15	1.87	1.02	0.06	0.57	7.59E-01	0.16	9.41E-01	-4.15	1.59E-02	BL-Down-1
ENSMMUG00000006754	TTC4	Tetratricopeptide Repeat Domain 4	8.52	9.59	13.25	2.32	-0.28	8.22E-01	1.51	1.02E-01	-3.35	7.63E-04	BL-Down-1
ENSMMUG00000008003	LRRC8C	Leucine Rich Repeat Containing 8 VRAC Subunit C	0.71	0.35	1.31	0.05	-0.58	7.89E-01	2.24	1.84E-01	-6.04	8.63E-04	BL-Down-1
ENSMMUG00000005815	ATXN7L2	Ataxin 7 Like 2	0.76	5.22	1.57	0.25	1.25	4.36E-01	-2.26	1.15E-01	-3.94	1.99E-02	BL-Down-1
ENSMMUG00000013681	PLEKHO1	Pleckstrin Homology Domain Containing O1	2.85	4.43	2.99	0.30	0.81	5.65E-01	-1.29	3.22E-01	-4.57	4.78E-04	BL-Down-1
ENSMMUG00000019514	UAP1	UDP-N-acetylglucosamine Pyrophosphorylase 1	19.65	27.03	31.34	12.55	0.45	5.17E-01	0.19	8.09E-01	-1.69	1.43E-02	BL-Down-1
ENSMMUG00000012227	WDR26	WD Repeat Domain 26	88.99	48.89	39.58	16.54	-0.95	1.08E-01	-0.48	4.62E-01	-1.51	2.95E-02	BL-Down-1
ENSMMUG00000016925	LAMB3	Laminin Subunit Beta 3	0.91	1.55	0.53	0.04	-0.56	8.03E-01	-2.06	2.60E-01	-4.29	4.35E-02	BL-Down-1
ENSMMUG0000001024	ELK4	ELK4, ETS Transcription Factor	45.18	75.04	41.46	17.58	0.71	2.28E-01	-0.63	2.88E-01	-1.39	3.87E-02	BL-Down-1
ENSMMUG00000012615	PCNX2	Pecanex Homolog 2	0.69	2.38	0.51	0.13	1.22	3.54E-01	-1.59	2.03E-01	-3.38	1.97E-02	BL-Down-1
ENSMMUG00000023311	ZNF669	Zinc Finger Protein 669	9.54	18.97	18.17	5.64	1.09	9.46E-02	0.04	9.66E-01	-1.75	2.16E-02	BL-Down-1
ENSMMUG00000038349	ARL6	ADP Ribosylation Factor Like GTPase 6	6.62	2.51	1.51	0.42	-1.91	5.14E-02	-0.70	5.45E-01	-2.44	4.83E-02	BL-Down-1
ENSMMUG00000020641	ZBTB20	Zinc Finger And BTB Domain Containing 20	0.92	0.71	2.27	0.08	0.37	8.96E-01	0.57	8.27E-01	-5.52	2.13E-02	BL-Down-1
ENSMMUG00000008810	ARL8B	ADP Ribosylation Factor Like GTPase 8B	31.08	61.46	81.10	24.62	0.75	2.46E-01	0.72	2.64E-01	-1.68	1.76E-02	BL-Down-1
ENSMMUG000000021899	SEC62	SEC62 Homolog, Preprotein Translocation Factor	33.96	33.28	45.07	14.38	-0.17	8.27E-01	0.60	3.43E-01	-1.46	4.17E-02	BL-Down-1
ENSMMUG00000016029	SLC4A4	Solute Carrier Family 4 Member 4	1.57	3.05	1.52	0.11	-0.51	7.69E-01	0.57	7.37E-01	-5.21	2.02E-04	BL-Down-1
ENSMMUG00000045445	#N/A	NANA	0.78	3.58	5.55	0.02	-1.62	4.30E-01	-0.28	9.17E-01	-7.35	2.27E-04	BL-Down-1
ENSMMUG00000021347	LARP1B	La Ribonucleoprotein Domain Family Member 1B	8.50	18.38	23.00	9.72	1.07	5.33E-02	0.53	3.86E-01	-1.48	2.52E-02	BL-Down-1
ENSMMUG00000003634	DDX60L	DEXD/H-box 60 Like	2.18	2.37	2.97	0.10	-0.61	6.38E-01	-1.66	1.26E-01	-3.77	1.89E-03	BL-Down-1
ENSMMUG00000004258	FAM3B	Family With Sequence Similarity 3 Member B	1.42	4.83	1.17	0.21	0.42	8.50E-01	-0.24	9.19E-01	-4.25	3.77E-02	BL-Down-1
ENSMMUG00000037624	ISPD	Isoprenoid Synthase Domain Containing	35.64	70.82	41.04	7.75	1.00	2.04E-01	-0.84	2.97E-01	-2.55	1.90E-03	BL-Down-1
ENSMMUG00000003572	NAMPT	Nicotinamide Phosphoribosyltransferase	9.70	11.33	10.07	3.12	0.02	9.85E-01	-0.20	8.38E-01	-1.82	3.87E-02	BL-Down-1
ENSMMUG00000040186	PRSS2	Protease, Serine, 2 (trypsin 2)	1.21	0.48	0.90	0.00	-4.63	1.22E-01	-2.03	5.78E-01	-18.96	7.81E-11	BL-Down-1
ENSMMUG00000013084	HTR5A	5-hydroxytryptamine Receptor 5A	6.65	3.03	1.40	0.08	-2.20	1.96E-01	0.30	9.00E-01	-4.89	2.01E-02	BL-Down-1
ENSMMUG00000005023	CCDC112	Coiled-coil Domain Containing 112	2.65	3.31	2.09	0.74	0.41	6.39E-01	-0.17	8.64E-01	-2.69	4.55E-04	BL-Down-1
ENSMMUG00000003280	HBEGF	Heparin Binding EGF Like Growth Factor	2.91	1.03	1.21	0.09	-2.40	5.40E-02	0.29	8.72E-01	-3.32	4.60E-02	BL-Down-1
ENSMMUG00000000419	ARHGAP26	Rho GTPase Activating Protein 26	30.33	23.68	12.18	2.28	-1.04	3.03E-01	-0.28	8.24E-01	-2.30	4.21E-02	BL-Down-1
ENSMMUG00000007075	#N/A	NANA	3.49	8.25	3.97	0.33	-0.21	9.45E-01	-1.56	5.19E-01	-6.18	1.30E-02	BL-Down-1
ENSMMUG00000014691	ID4	Inhibitor Of DNA Binding 4, HLH Protein	2.60	5.18	5.28	0.29	1.09	4.72E-01	0.44	8.03E-01	-3.42	3.78E-02	BL-Down-1
ENSMMUG00000012870	HDGFL1	HDGF Like 1	4.78	6.18	6.57	0.26	-0.92	6.36E-01	-2.10	2.14E-01	-5.17	5.88E-03	BL-Down-1
ENSMMUG00000039988	HIST1H2AA	Histone Cluster 1, H2aa	7.82	11.53	13.48	1.52	-2.20	2.08E-01	0.22	9.31E-01	-5.02	1.51E-02	BL-Down-1
ENSMMUG00000008993	KCNK5	Potassium Two Pore Domain Channel Subfamily K Member 5	3.34	2.61	3.68	0.67	-1.23	2.02E-01	1.58	8.31E-02	-3.53	2.87E-04	BL-Down-1
ENSMMUG00000011567	ZNF318	Zinc Finger Protein 318	8.95	12.78	13.28	7.69	0.11	8.97E-01	0.11	8.88E-01	-1.41	4.16E-02	BL-Down-1

ENSMMUG00000012781	MLIP	Muscular LMNA Interacting Protein	1.11	1.28	0.39	0.02	-1.95	2.59E-01	-0.14	9.54E-01	-4.34	3.33E-02	BL-Down-1
ENSMMUG00000009856	GRIK2	Glutamate Ionotropic Receptor Kainate Type Subunit 2	1.05	0.84	0.49	0.05	-0.59	7.29E-01	-1.68	2.39E-01	-4.05	1.57E-02	BL-Down-1
ENSMMUG00000018346	CCDC170	Coiled-coil Domain Containing 170	14.79	6.91	1.48	0.07	-1.12	4.20E-01	-2.32	6.11E-02	-3.39	3.79E-02	BL-Down-1
ENSMMUG00000023554	GABRA5	Gamma-aminobutyric Acid Type A Receptor Alpha5 Subunit	25.42	10.46	6.37	3.16	-1.04	2.11E-01	-0.81	3.46E-01	-2.86	8.12E-04	BL-Down-1
ENSMMUG00000037623	LOC100424874	Golgin Subfamily A Member 6-like Protein 22	2.10	4.50	3.77	0.19	0.95	5.94E-01	-0.14	9.50E-01	-4.68	6.32E-03	BL-Down-1
ENSMMUG00000046799	#N/A	NANA	9.21	9.04	6.02	0.14	1.11	3.89E-01	-1.81	1.28E-01	-5.30	2.76E-05	BL-Down-1
ENSMMUG00000020935	SLC12A6	Solute Carrier Family 12 Member 6	27.39	17.46	14.04	4.36	-0.76	2.53E-01	0.03	9.71E-01	-1.90	6.89E-03	BL-Down-1
ENSMMUG00000014542	CHAC1	ChaC Glutathione Specific Gamma-glutamylcyclotransferase 1	2.54	1.25	7.34	0.42	-1.69	3.55E-01	2.74	1.03E-01	-8.83	4.07E-07	BL-Down-1
ENSMMUG00000012681	NUSAP1	Nucleolar And Spindle Associated Protein 1	40.84	65.36	49.35	24.03	0.67	1.17E-01	-0.32	5.01E-01	-1.48	9.56E-04	BL-Down-1
ENSMMUG00000011510	SLC30A4	Solute Carrier Family 30 Member 4	8.05	7.22	6.27	0.97	-1.08	4.15E-01	-0.89	5.16E-01	-2.89	4.72E-02	BL-Down-1
ENSMMUG00000017374	GNB5	G Protein Subunit Beta 5	1.02	1.10	0.83	0.05	-0.33	8.49E-01	-0.59	7.10E-01	-3.58	1.80E-02	BL-Down-1
ENSMMUG00000014005	SNX1	Sorting Nexin 1	11.08	11.77	4.90	1.84	0.43	6.47E-01	-0.90	2.63E-01	-2.05	2.28E-02	BL-Down-1
ENSMMUG00000022056	DENND4A	DENN Domain Containing 4A	20.64	10.15	5.18	2.55	-1.07	5.81E-02	-0.72	2.29E-01	-1.49	2.96E-02	BL-Down-1
ENSMMUG00000001008	SYNE2	Spectrin Repeat Containing Nuclear Envelope Protein 2	11.72	8.15	6.26	1.95	-0.58	3.84E-01	-0.11	8.94E-01	-1.48	4.30E-02	BL-Down-1
ENSMMUG00000012894	NHS	NHS Actin Remodeling Regulator	1.41	0.99	0.45	0.02	-1.70	2.51E-01	0.70	6.91E-01	-6.88	4.89E-06	BL-Down-1
ENSMMUG00000018824	ACOT9	Acyl-CoA Thioesterase 9	10.00	7.86	8.52	0.55	-0.35	7.77E-01	0.26	8.41E-01	-3.74	2.21E-04	BL-Down-1
ENSMMUG00000043952	#N/A	NANA	23.38	31.20	30.71	14.14	0.40	4.94E-01	0.13	8.56E-01	-1.26	4.37E-02	BL-Down-1
ENSMMUG00000021581	TAF7L	TATA-box Binding Protein Associated Factor 7 Like	0.55	2.50	1.13	0.13	0.81	6.70E-01	-0.09	9.68E-01	-4.39	2.45E-02	BL-Down-1
ENSMMUG00000009037	CUL4B	Cullin 4B	24.58	27.80	35.24	21.01	-0.17	7.99E-01	0.71	1.70E-01	-1.32	2.60E-02	BL-Down-1
ENSMMUG00000016648	#N/A	NANA	1.14	0.80	2.52	0.35	0.15	9.39E-01	0.97	5.23E-01	-4.76	9.89E-04	BL-Down-1
ENSMMUG00000009476	#N/A	NANA	7.05	4.47	7.00	1.83	-1.05	2.44E-01	1.35	1.13E-01	-2.23	2.92E-02	BL-Down-1
ENSMMUG00000010137	MCPH1	Microcephalin 1	35.91	36.50	22.08	5.70	-0.06	9.45E-01	-0.62	3.22E-01	-2.13	5.21E-04	BL-Down-1
ENSMMUG00000000639	NEFM	Neurofilament Medium	9.02	28.27	24.25	0.43	1.60	8.71E-02	-1.04	2.94E-01	-4.43	1.90E-06	BL-Down-1
ENSMMUG00000008028	DOCK5	Dedicator Of Cytokinesis 5	3.90	4.71	2.33	0.35	0.17	8.97E-01	-1.29	1.62E-01	-2.46	2.21E-02	BL-Down-1
ENSMMUG00000013193	MMP16	Matrix Metalloproteinase 16	1.07	2.34	0.31	0.03	-3.69	1.29E-01	-1.66	5.63E-01	-6.81	2.00E-02	BL-Down-1
ENSMMUG00000023778	FBXO32	F-box Protein 32	2.18	4.94	3.06	0.32	1.94	1.68E-01	-0.30	8.75E-01	-4.17	9.16E-03	BL-Down-1
ENSMMUG00000000375	PLEKHG6	Pleckstrin Homology And RhoGEF Domain Containing G6	1.72	0.75	0.95	0.08	-3.01	7.22E-02	0.57	8.01E-01	-4.25	4.02E-02	BL-Down-1
ENSMMUG00000022469	YBX3	Y-box Binding Protein 3	21.77	46.01	50.07	23.34	0.89	9.69E-02	0.45	4.48E-01	-1.54	1.19E-02	BL-Down-1
ENSMMUG00000018013	H2AFJ	H2A Histone Family, Member J	3.84	16.02	15.06	8.21	2.86	1.05E-01	1.53	4.11E-01	-4.18	3.98E-02	BL-Down-1
ENSMMUG00000020431	EPS8	Epidermal Growth Factor Receptor Pathway Substrate 8	2.30	1.21	0.59	0.04	-0.92	5.28E-01	-1.05	4.64E-01	-4.61	1.15E-03	BL-Down-1
ENSMMUG00000018385	RASSF8	Ras Association Domain Family Member 8	33.85	42.96	46.11	20.95	0.35	5.86E-01	0.03	9.72E-01	-1.34	3.87E-02	BL-Down-1
ENSMMUG00000015813	OVCH1	Ovochymase 1	18.46	11.94	2.70	0.20	-1.71	9.86E-02	-1.44	1.75E-01	-3.56	2.06E-03	BL-Down-1
ENSMMUG00000023575	KIAA1551	KIAA1551 Ortholog	97.54	#####	142.83	60.63	0.38	5.27E-01	0.29	6.39E-01	-1.35	2.72E-02	BL-Down-1
ENSMMUG00000004895	FAM186A	Family With Sequence Similarity 186 Member A	0.39	0.98	1.67	0.02	1.06	6.04E-01	-1.66	3.79E-01	-4.69	2.56E-02	BL-Down-1
ENSMMUG00000008172	LARP4	La Ribonucleoprotein Domain Family Member 4	19.45	38.41	30.06	13.54	0.81	5.58E-02	-0.28	5.78E-01	-1.04	4.54E-02	BL-Down-1
ENSMMUG00000018901	FGD6	FYVE, RhoGEF And PH Domain Containing 6	20.32	33.45	17.90	8.89	0.70	2.16E-01	-0.78	1.56E-01	-1.36	3.76E-02	BL-Down-1
ENSMMUG00000009213	ZNF664	Zinc Finger Protein 664	25.38	19.24	24.79	7.10	-0.51	5.64E-01	0.71	3.95E-01	-1.98	2.69E-02	BL-Down-1
ENSMMUG00000003925	LOC100423924	Coiled-coil Domain-containing Protein 7	9.56	53.62	26.37	2.96	1.79	5.79E-02	-1.42	1.40E-01	-2.85	8.52E-03	BL-Down-1
ENSMMUG00000001619	NOC3L	NOC3 Like DNA Replication Regulator	24.08	46.81	34.81	23.23	0.94	5.96E-02	-0.16	8.07E-01	-1.36	2.03E-02	BL-Down-1
ENSMMUG00000022617	PDZD7	PDZ Domain Containing 7	4.84	5.92	0.47	0.03	-1.93	1.56E-01	-2.12	1.23E-01	-5.07	1.32E-03	BL-Down-1

ENSMMUG00000013033	TACC2	Transforming Acidic Coiled-coil Containing Protein 2	3.59	7.45	8.88	4.94	0.48	4.60E-01	0.75	2.08E-01	-1.43	3.73E-02	BL-Down-1
ENSMMUG00000013526	LOC697943	Oocyte-secreted Protein 2	6.45	3.22	1.83	0.11	-0.67	6.47E-01	-0.96	4.79E-01	-3.82	6.02E-03	BL-Down-1
ENSMMUG00000021646	NAT10	N-acetyltransferase 10	25.48	28.70	17.88	7.77	0.22	7.40E-01	-0.66	2.21E-01	-1.57	6.58E-03	BL-Down-1
ENSMMUG00000023490	CCDC34	Coiled-coil Domain Containing 34	62.77	#####	189.67	48.66	0.55	4.72E-01	1.25	5.66E-02	-2.26	2.07E-03	BL-Down-1
ENSMMUG00000018178	MYO7A	Myosin VIIA	1.76	0.85	0.52	0.03	-2.49	9.79E-02	-0.87	6.28E-01	-4.56	8.52E-03	BL-Down-1
ENSMMUG00000016737	CNTN5	Contactin 5	6.35	5.63	2.53	0.16	-1.61	1.96E-01	-0.35	8.30E-01	-4.42	7.99E-04	BL-Down-1
ENSMMUG00000004157	NPAT	Nuclear Protein, Ataxia-telangiectasia Locus	30.00	18.62	20.28	8.87	-0.71	5.18E-02	0.36	3.69E-01	-1.51	7.35E-05	BL-Down-1
ENSMMUG00000021159	LOC718034	Tubulin Alpha-3 Chain	15.40	26.35	23.52	1.39	0.45	6.79E-01	0.50	6.37E-01	-3.93	9.25E-06	BL-Down-1
ENSMMUG00000005397	SMPD4	Sphingomyelin Phosphodiesterase 4	14.54	16.10	11.88	6.41	0.39	4.00E-01	-0.48	2.72E-01	-1.16	1.58E-02	BL-Down-1
ENSMMUG00000006215	STK39	Serine/threonine Kinase 39	17.81	15.74	7.69	1.39	-0.70	4.75E-01	-0.35	7.54E-01	-3.75	3.68E-05	BL-Down-1
ENSMMUG00000015842	TRIP12	Thyroid Hormone Receptor Interactor 12	#####	#####	106.63	28.12	-0.14	8.11E-01	0.28	5.70E-01	-2.39	2.11E-09	BL-Down-1
ENSMMUG00000012163	GARNL3	GTPase Activating Rap/RanGAP Domain Like 3	5.05	1.64	0.66	0.07	-1.25	2.98E-01	-2.07	5.98E-02	-3.42	9.79E-03	BL-Down-1
ENSMMUG00000003671	LHX2	LIM Homeobox 2	3.90	1.84	12.21	0.14	0.04	9.86E-01	2.67	5.33E-02	-7.46	4.80E-07	BL-Down-1
ENSMMUG00000011453	LHX6	LIM Homeobox 6	0.38	1.18	1.92	0.03	3.11	1.05E-01	-2.46	2.20E-01	-5.58	1.80E-02	BL-Down-1
ENSMMUG000000044793	#N/A	NANA	#####	#####	290.62	62.35	0.37	5.85E-01	-0.44	4.93E-01	-1.89	2.35E-03	BL-Down-1
ENSMMUG00000013550	LOC707552	Myeloid-associated Differentiation Marker-like	0.18	0.78	3.23	0.08	1.08	6.62E-01	2.57	2.21E-01	-6.25	7.44E-03	BL-Down-1
ENSMMUG00000030867	GPATCH11	G-patch Domain Containing 11	55.42	53.96	51.30	7.04	0.82	3.29E-01	-1.04	1.88E-01	-2.19	1.40E-02	BL-Down-1
ENSMMUG00000003523	RMND5A	Required For Meiotic Nuclear Division 5 Homolog A	41.24	23.41	43.00	15.38	-0.73	1.56E-01	0.60	2.52E-01	-1.31	2.68E-02	BL-Down-1
ENSMMUG00000012863	GPAT2	Glycerol-3-phosphate Acyltransferase 2, Mitochondrial	3.89	1.45	2.23	0.13	-1.41	3.54E-01	-0.31	8.69E-01	-5.09	8.96E-04	BL-Down-1
ENSMMUG00000018423	#N/A	NANA	1.99	6.33	3.07	0.75	1.49	3.10E-01	-2.07	1.39E-01	-4.06	1.96E-02	BL-Down-1
ENSMMUG00000002234	FBLN7	Fibulin 7	8.71	4.10	1.45	0.03	-1.78	2.54E-01	-2.88	5.16E-02	-4.49	2.29E-02	BL-Down-1
ENSMMUG00000001292	SACS	Sacsin Molecular Chaperone	6.59	8.90	5.70	1.36	-0.15	8.49E-01	-0.26	7.22E-01	-2.26	1.27E-04	BL-Down-1
ENSMMUG00000013473	SETDB2	SET Domain Bifurcated 2	7.04	6.06	5.21	1.60	-0.12	9.04E-01	-0.14	8.75E-01	-1.65	4.37E-02	BL-Down-1
ENSMMUG00000030683	#N/A	NANA	2.41	3.34	6.40	1.46	-1.50	3.13E-01	1.81	2.05E-01	-5.03	7.27E-04	BL-Down-1
ENSMMUG000000043739	OPRL1	Opioid Related Nociceptin Receptor 1	1.39	0.59	0.02	0.00	-2.96	2.17E-01	-3.37	1.75E-01	-18.54	1.01E-15	BL-Down-1
ENSMMUG00000000072	CSTF1	Cleavage Stimulation Factor Subunit 1	70.47	53.51	25.10	12.63	-0.62	2.89E-01	-0.49	4.11E-01	-1.89	1.19E-03	BL-Down-1
ENSMMUG000000004403	ID1	Inhibitor Of DNA Binding 1, HLH Protein	0.69	4.50	24.40	0.66	2.61	6.07E-02	0.89	5.92E-01	-3.75	3.11E-02	BL-Down-1
ENSMMUG000000043181	#N/A	NANA	0.47	6.93	4.74	0.29	3.26	1.23E-01	0.05	9.86E-01	-7.00	2.62E-03	BL-Down-1
ENSMMUG000000048204	#N/A	NANA	2.80	2.03	1.61	0.05	0.41	8.36E-01	-1.72	2.67E-01	-4.91	4.19E-03	BL-Down-1
ENSMMUG000000020329	ALOX12B	Arachidonate 12-lipoxygenase, 12R Type	0.08	1.44	1.02	0.04	0.24	9.31E-01	1.68	4.09E-01	-5.76	7.61E-03	BL-Down-1
ENSMMUG000000037644	CPD	Carboxypeptidase D	6.80	7.51	8.06	2.24	0.03	9.76E-01	0.56	4.32E-01	-2.53	1.69E-04	BL-Down-1
ENSMMUG00000021350	CDK12	Cyclin Dependent Kinase 12	76.11	#####	69.68	34.92	0.55	2.61E-01	-0.57	2.43E-01	-1.23	2.40E-02	BL-Down-1
ENSMMUG000000042281	#N/A	NANA	2.04	2.33	0.10	0.00	-7.56	5.67E-02	-3.06	5.12E-01	-13.48	3.13E-03	BL-Down-1
ENSMMUG000000001944	C20H16orf72	Chromosome 20 Open Reading Frame, Human C16orf72	#####	#####	287.90	78.80	-0.34	6.34E-01	0.23	7.60E-01	-1.55	2.43E-02	BL-Down-1
ENSMMUG000000005699	SCNN1G	Sodium Channel Epithelial 1 Gamma Subunit	5.35	1.47	1.19	0.04	-2.23	6.64E-02	-0.67	6.56E-01	-4.83	4.24E-04	BL-Down-1
ENSMMUG000000005625	FBRS	Fibrosin	16.93	17.03	6.42	1.76	0.07	9.53E-01	-1.58	5.84E-02	-2.15	3.83E-02	BL-Down-1
ENSMMUG000000043657	#N/A	NANA	5.35	5.66	2.40	0.49	-1.88	2.60E-01	-0.37	8.66E-01	-4.65	1.55E-02	BL-Down-1
ENSMMUG000000016633	TERF2	Telomeric Repeat Binding Factor 2	21.84	17.39	13.46	6.25	-0.68	3.91E-01	-0.11	9.17E-01	-1.82	3.29E-02	BL-Down-1
ENSMMUG000000029083	CTRB2	Chymotrypsinogen B2	4.48	8.46	0.05	0.03	-0.90	6.17E-01	-3.10	6.91E-02	-4.74	1.95E-02	BL-Down-1
ENSMMUG00000002629	#N/A	NANA	4.42	8.48	0.05	0.11	-2.12	2.48E-01	-1.04	6.65E-01	-4.65	4.38E-02	BL-Down-1
ENSMMUG000000013823	CDT1	Chromatin Licensing And DNA Replication Factor 1	8.64	19.92	20.85	10.21	0.99	4.35E-01	0.95	4.51E-01	-3.17	1.49E-02	BL-Down-1
ENSMMUG000000004498	PIAS2	Protein Inhibitor Of Activated STAT 2	14.45	13.17	11.98	3.83	-0.14	8.77E-01	-0.41	5.82E-01	-1.75	1.72E-02	BL-Down-1
ENSMMUG000000023218	ONECUT2	One Cut Homeobox 2	0.84	0.98	2.57	1.17	0.36	8.64E-01	1.23	4.68E-01	-4.25	1.70E-02	BL-Down-1
ENSMMUG000000003937	#N/A	NANA	1.64	7.13	0.24	0.00	-4.76	1.44E-01	2.18	5.76E-01	-17.95	1.93E-08	BL-Down-1

ENSMMUG00000022207	PLPPR2	Phospholipid Phosphatase Related 2	5.39	6.97	1.08	0.21	-2.10	1.03E-01	-1.28	3.73E-01	-3.69	2.15E-02	BL-Down-1
ENSMMUG00000015533	LOC693611	Zinc Finger Protein 493-like	28.95	49.35	38.24	19.69	0.86	5.26E-02	0.13	8.25E-01	-1.31	1.11E-02	BL-Down-1
ENSMMUG00000021111	SIGLEC10	Sialic Acid Binding Ig Like Lectin 10	2.67	1.09	2.65	0.03	0.24	9.41E-01	-1.75	4.87E-01	-6.33	2.14E-02	BL-Down-1
ENSMMUG00000046537	LOC106994856	Zinc Finger Protein 813-like	6.74	17.84	11.57	3.41	0.91	1.30E-01	-0.37	5.91E-01	-1.56	2.60E-02	BL-Down-1
ENSMMUG00000028716	TMEM150B	Transmembrane Protein 150B	2.77	0.37	0.08	0.00	-4.78	8.26E-02	-5.28	6.47E-02	-16.45	5.86E-09	BL-Down-1
ENSMMUG00000000929	#N/A	NANA	12.89	19.13	6.52	0.51	0.13	9.21E-01	-1.51	9.45E-02	-3.24	8.94E-04	BL-Down-1
ENSMMUG00000000362	ZNF582	Zinc Finger Protein 582	1.29	6.49	3.19	0.26	2.23	5.80E-02	-2.00	9.13E-02	-3.45	1.37E-02	BL-Down-1
ENSMMUG00000038842	#N/A	NANA	4.13	4.27	7.75	0.34	-2.03	2.79E-01	-0.92	6.73E-01	-5.12	1.39E-02	BL-Down-1
ENSMMUG00000044297	#N/A	NANA	0.38	0.63	1.02	0.04	-0.58	7.72E-01	-0.38	8.67E-01	-5.24	6.07E-03	BL-Down-1
ENSMMUG00000046551	#N/A	NANA	0.31	1.08	0.56	0.36	-0.36	9.02E-01	1.77	4.28E-01	-6.20	9.79E-03	BL-Down-1
ENSMMUG00000011264			1.17	15.27	14.98	0.72	3.76	6.52E-03	-0.43	8.26E-01	-4.03	2.06E-02	BL-Down-2
ENSMMUG00000032121	ZYG11A	Zyg-11 Family Member A, Cell Cycle Regulator	0.65	15.72	18.50	4.66	4.70	3.83E-16	0.28	7.46E-01	-2.00	1.04E-02	BL-Down-2
ENSMMUG00000013680	FAM151A	Family With Sequence Similarity 151 Member A	0.00	5.54	4.08	0.13	#####	3.29E-09	-0.30	9.05E-01	-5.79	6.28E-03	BL-Down-2
ENSMMUG00000031542	IGSF8	Immunoglobulin Superfamily Member 8	0.03	2.16	4.20	0.33	#####	2.69E-08	1.76	4.71E-01	-5.50	3.40E-02	BL-Down-2
ENSMMUG00000046792			0.01	1.12	1.69	0.04	6.86	4.28E-05	1.81	3.62E-01	-6.82	9.86E-04	BL-Down-2
ENSMMUG00000002861	TMEM45A	Transmembrane Protein 45A	0.34	6.81	7.65	0.47	4.04	1.01E-03	0.67	6.84E-01	-4.56	1.88E-03	BL-Down-2
ENSMMUG00000014231	BTLA	B And T Lymphocyte Associated	0.08	2.31	13.95	0.54	5.39	1.97E-06	2.04	1.04E-01	-4.34	1.72E-03	BL-Down-2
ENSMMUG00000016395	ARGFX	Arginine-fifty Homeobox	0.16	82.11	144.27	31.98	8.71	2.52E-23	1.35	1.95E-01	-2.81	1.76E-02	BL-Down-2
ENSMMUG00000031684	FAM198A	Family With Sequence Similarity 198 Member A	0.57	10.89	9.83	1.18	3.37	4.33E-04	0.75	5.37E-01	-4.30	7.35E-05	BL-Down-2
ENSMMUG00000020342	KAT2B	Lysine Acetyltransferase 2B	1.08	18.42	23.93	1.76	4.10	3.16E-07	0.93	3.49E-01	-4.20	4.89E-06	BL-Down-2
ENSMMUG00000015473	CFAP97	Cilia And Flagella Associated Protein 97	9.21	36.14	35.38	6.13	1.40	1.21E-02	0.10	9.06E-01	-2.19	4.23E-04	BL-Down-2
ENSMMUG00000045620			20.60	55.37	49.80	24.97	1.37	2.88E-04	-0.05	9.31E-01	-1.01	4.80E-02	BL-Down-2
ENSMMUG00000011958			12.76	#####	294.43	70.40	4.52	3.01E-16	-0.18	8.43E-01	-1.95	8.87E-03	BL-Down-2
ENSMMUG00000002277	UBN2	Ubinuclein 2	15.68	33.08	22.49	13.29	1.00	3.05E-03	-0.66	6.18E-02	-0.91	3.90E-02	BL-Down-2
ENSMMUG00000038794	BRX1	BRX1, Biogenesis Of Ribosomes	9.56	22.51	16.91	7.26	1.25	6.27E-03	-0.40	4.60E-01	-1.18	4.67E-02	BL-Down-2
ENSMMUG00000018972	POLR3G	RNA Polymerase III Subunit G	4.18	15.43	19.25	10.15	1.71	4.46E-03	0.74	2.79E-01	-1.72	2.28E-02	BL-Down-2
ENSMMUG00000014782	STC2	Stanniocalcin 2	0.66	5.79	3.37	1.39	4.35	9.15E-05	-1.45	2.67E-01	-3.38	2.00E-02	BL-Down-2
ENSMMUG00000015975			1.52	38.05	44.98	9.29	4.48	1.37E-12	0.02	9.85E-01	-2.18	9.92E-03	BL-Down-2
ENSMMUG00000014072	IER3	Immediate Early Response 3	0.80	#####	85.97	4.42	7.29	7.15E-14	-0.09	9.57E-01	-3.44	7.71E-03	BL-Down-2
ENSMMUG00000029466			0.07	1.95	1.72	0.14	#####	1.05E-06	-2.67	2.50E-01	-6.03	2.72E-02	BL-Down-2
ENSMMUG00000020693	RSL24D1	Ribosomal L24 Domain Containing 1	13.99	54.68	64.59	31.46	1.71	1.11E-05	0.46	3.31E-01	-1.23	1.57E-02	BL-Down-2
ENSMMUG00000014886	PAQR5	Progesterin And AdipoQ Receptor Family Member 5	0.01	0.91	0.54	0.09	4.69	6.97E-03	0.35	8.84E-01	-5.37	8.29E-03	BL-Down-2
ENSMMUG00000004341	MAX	MYC Associated Factor X	#####	#####	567.18	99.45	2.38	9.55E-09	-0.31	5.88E-01	-2.20	4.40E-06	BL-Down-2
ENSMMUG00000010620	WDR45	WD Repeat Domain 45	2.81	34.32	32.33	6.05	3.31	6.00E-05	-0.15	9.06E-01	-2.35	3.26E-02	BL-Down-2
ENSMMUG00000021739			30.64	#####	87.44	5.43	2.54	3.55E-03	-1.71	6.12E-02	-2.74	1.08E-02	BL-Down-2
ENSMMUG00000022303	SLC7A2	Solute Carrier Family 7 Member 2	0.83	29.99	57.70	12.67	5.21	1.12E-08	1.52	1.54E-01	-2.58	4.43E-02	BL-Down-2
ENSMMUG00000042006	CA13	Carbonic Anhydrase 13	0.06	5.96	4.53	0.16	6.05	1.84E-06	0.38	8.41E-01	-5.46	2.51E-04	BL-Down-2
ENSMMUG0000003665	PLBD1	Phospholipase B Domain Containing 1	0.04	2.84	17.04	0.92	4.22	8.41E-03	3.06	5.92E-02	-4.69	1.59E-02	BL-Down-2
ENSMMUG00000016628	HELB	DNA Helicase B	1.90	12.03	17.24	3.03	2.53	5.37E-04	0.59	5.23E-01	-2.66	2.38E-03	BL-Down-2
ENSMMUG00000042077			0.08	26.49	49.87	5.67	8.79	3.25E-19	1.11	2.47E-01	-2.82	9.92E-03	BL-Down-2
ENSMMUG00000012317	DPF2	Double PHD Fingers 2	33.03	#####	195.10	39.26	2.85	2.78E-08	-0.48	4.75E-01	-1.68	1.38E-02	BL-Down-2
ENSMMUG00000002183	OSBPL6	Oxysterol Binding Protein Like 6	1.51	5.63	7.71	1.32	1.88	7.85E-03	0.86	2.80E-01	-3.16	3.78E-05	BL-Down-2
ENSMMUG00000003314	AQP3	Aquaporin 3 (Gill Blood Group)	10.74	#####	90.25	15.72	4.23	2.34E-08	-0.92	3.26E-01	-2.80	3.78E-03	BL-Down-2
ENSMMUG00000040135	PDCL3	Phosducin Like 3	20.47	#####	543.56	#####	4.56	2.17E-16	0.18	8.41E-01	-1.96	8.43E-03	BL-Down-2
ENSMMUG00000010657	LOC700564	Melanoma Antigen Preferentially Expressed In Tumors	1.23	32.17	10.58	2.10	4.75	3.98E-07	-1.42	2.00E-01	-2.95	1.82E-02	BL-Down-2
ENSMMUG00000012118	EFCAB5	EF-hand Calcium Binding Domain 5	0.04	2.35	1.87	0.20	4.94	1.03E-04	1.37	3.77E-01	-3.75	3.10E-02	BL-Down-2

ENSMMUG00000047705			0.04	1.16	0.74	0.57	8.81	1.02E-05	-0.93	7.39E-01	-5.58	4.54E-02	BL-Down-2
ENSMMUG00000019632	RSL1D1	Ribosomal L1 Domain Containing 1	71.54	#####	245.91	88.87	1.76	2.29E-10	0.03	9.48E-01	-1.36	3.77E-05	BL-Down-2
ENSMMUG00000013877	OTOA	Otoancorin	1.03	4.90	3.74	0.07	2.94	2.68E-02	-2.36	8.51E-02	-3.60	3.77E-02	BL-Down-2
ENSMMUG00000018102	C20H16orf70	Chromosome 20 Open Reading Frame, Human C16orf70	5.56	17.76	16.21	5.07	1.73	1.21E-02	-0.02	9.85E-01	-2.17	8.28E-03	BL-Down-2
ENSMMUG00000021792	ATP9B	ATPase Phospholipid Transporting 9B (putative)	5.42	18.21	7.63	2.92	1.56	2.37E-02	-0.95	1.98E-01	-1.89	2.59E-02	BL-Down-2
ENSMMUG00000028843	SLC5A5	Solute Carrier Family 5 Member 5	0.12	2.53	0.41	0.02	5.40	2.07E-03	-1.51	4.63E-01	-5.91	6.14E-03	BL-Down-2
ENSMMUG00000009292	ZIK1	Zinc Finger Protein Interacting With K Protein 1	3.00	10.26	5.87	1.46	1.76	2.48E-03	-0.86	1.85E-01	-1.70	2.20E-02	BL-Down-2
ENSMMUG00000015673	ZIM3	Zinc Finger Imprinted 3	0.27	#####	100.41	7.11	9.34	1.64E-34	-1.18	2.08E-01	-3.55	1.82E-04	BL-Down-2
ENSMMUG00000012157	USP29	Ubiquitin Specific Peptidase 29	0.20	13.43	4.97	0.71	5.35	2.05E-10	-1.16	2.60E-01	-2.47	3.78E-02	BL-Down-2
ENSMMUG00000039741	LOC720395	Class I Histocompatibility Antigen, Gogo-B*0101 Alpha Chain-like	0.13	3.95	11.63	0.61	5.50	4.75E-05	0.95	5.87E-01	-4.88	4.26E-03	BL-Down-2
ENSMMUG00000007377	LOC106995802	Zinc Finger Protein 679-like	5.71	#####	227.89	13.52	5.84	5.96E-17	-0.67	4.73E-01	-3.77	5.72E-06	BL-Down-2
ENSMMUG00000041735			4.05	20.57	23.71	10.10	2.73	4.87E-05	0.03	9.78E-01	-2.03	2.20E-02	BL-Down-2
ENSMMUG00000043586	ID3	Inhibitor Of DNA Binding 3, HLH Protein	0.22	2.24	3.47	1.50	3.08	8.09E-03	2.88	1.29E-02	-3.90	5.08E-03	BL-Down-3
ENSMMUG00000032031	LOC713714	60S Ribosomal Protein L12 Pseudogene	90.60	#####	463.94	#####	0.97	7.35E-03	1.66	9.99E-07	-1.20	5.44E-03	BL-Down-3
ENSMMUG00000001349	CHL1	Cell Adhesion Molecule L1 Like	0.00	0.75	0.80	0.49	9.48	1.54E-07	5.87	5.78E-04	-5.55	6.19E-03	BL-Down-3
ENSMMUG000000031898			65.75	#####	591.82	#####	2.22	7.77E-13	1.06	1.51E-03	-0.89	4.58E-02	BL-Down-3
ENSMMUG00000044501	LOC702620	60S Ribosomal Protein L12 Pseudogene	81.15	#####	430.61	#####	0.94	5.46E-03	1.76	2.26E-08	-1.17	3.30E-03	BL-Down-3
ENSMMUG00000048214	LOC715037	60S Ribosomal Protein L12 Pseudogene	78.80	#####	398.09	#####	0.99	4.38E-03	1.59	1.36E-06	-1.20	3.29E-03	BL-Down-3
ENSMMUG00000039222			82.51	#####	402.21	#####	0.95	8.19E-03	1.64	1.03E-06	-1.17	6.18E-03	BL-Down-3
ENSMMUG00000042009			0.05	1.11	46.14	20.75	2.96	3.50E-03	7.82	6.09E-19	-2.75	2.52E-02	BL-Down-3
ENSMMUG00000029534			#####	#####	#####	#####	2.19	4.00E-13	1.03	1.52E-03	-0.91	3.26E-02	BL-Down-3
ENSMMUG00000023265	AKAP12	A-kinase Anchoring Protein 12	0.27	12.88	185.26	31.19	4.07	1.11E-05	5.88	8.08E-11	-3.81	5.39E-04	BL-Down-3
ENSMMUG00000014412			#####	#####	839.47	#####	2.13	2.85E-11	1.00	3.82E-03	-0.94	3.84E-02	BL-Down-3
ENSMMUG00000032052	LOC699681	60S Ribosomal Protein L12 Pseudogene	28.42	60.28	135.34	#####	0.98	9.33E-03	1.64	3.84E-06	-1.06	2.47E-02	BL-Down-3
ENSMMUG00000020873	SPIC	Spi-C Transcription Factor	0.02	2.70	42.69	18.78	4.08	2.15E-03	6.37	3.08E-08	-3.41	3.00E-02	BL-Down-3
ENSMMUG00000041517	LOC100427498	60S Ribosomal Protein L12 Pseudogene	63.47	#####	328.72	#####	0.88	1.94E-02	1.79	1.86E-07	-1.15	9.19E-03	BL-Down-3
ENSMMUG00000000422	RPL12	Ribosomal Protein L12	#####	#####	808.15	#####	1.00	4.76E-03	1.68	3.83E-07	-1.20	4.01E-03	BL-Down-3
ENSMMUG000000031250	LOC708085	60S Ribosomal Protein L31 Pseudogene	67.57	#####	395.38	#####	1.28	1.77E-03	1.47	2.20E-04	-1.11	3.73E-02	BL-Down-3
ENSMMUG00000002704			69.66	#####	618.20	#####	2.18	1.16E-13	1.07	6.64E-04	-0.90	2.77E-02	BL-Down-3
ENSMMUG000000047655			51.58	#####	464.56	#####	2.45	5.51E-12	0.92	1.97E-02	-1.01	4.75E-02	BL-Down-3
ENSMMUG00000013429	RPS19	Ribosomal Protein S19	62.50	#####	602.98	#####	2.50	1.03E-13	0.99	7.19E-03	-0.96	4.62E-02	BL-Down-3
ENSMMUG00000002309	LOC720019	60S Ribosomal Protein L12-like	#####	#####	707.03	#####	0.97	5.74E-03	1.70	2.53E-07	-1.21	3.24E-03	BL-Down-3
ENSMMUG00000043313			99.74	#####	498.34	#####	0.93	8.85E-03	1.67	4.06E-07	-1.22	3.11E-03	BL-Down-3
ENSMMUG00000019239	TBC1D19	TBC1 Domain Family Member 19	0.78	0.57	2.42	0.12	-4.33	3.43E-02	5.98	2.27E-03	-8.04	6.26E-04	BL-Down-4
ENSMMUG00000007310	SLC25A12	Solute Carrier Family 25 Member 12	4.05	0.91	2.95	0.78	-2.93	6.69E-03	2.96	5.67E-03	-2.97	3.11E-02	BL-Down-4
ENSMMUG00000018791	MOCOS	Molybdenum Cofactor Sulfurase	4.13	1.33	1.48	0.28	-3.00	5.38E-03	2.41	3.12E-02	-4.01	2.22E-03	BL-Down-4

- a) FPKM: Fragments Per Kilobase of transcript per Million mapped reads.
b) L2FC: Log fold change of base 2.
c) FDR: False discovery rate. Adjusted p-value using the Benjamin-Hochberg method.