

Table S26 - Morula Female/Male DEGs

Gene	Symbol	GeneName	Chromosome	FPKM ^a		Exp. Blast	
				Female	Male	L2FC ^b	FDR ^c
ENSMMUG00000038331	RPS4Y1	Ribosomal Protein S4, Y-linked 1	Y	8.20	89.67	-7.26	2.25E-10
ENSMMUG00000000419	ARHGAP26	Rho GTPase Activating Protein 26	6	18.53	7.14	0.00	2.22E-02
ENSMMUG00000000658	CDHR1	Cadherin Related Family Member 1	9	0.00	0.60	0.00	2.73E-17
ENSMMUG00000000907	MAATS1	MYCBP Associated And Testis Expressed 1	2	0.01	0.02	0.00	1.85E-02
ENSMMUG00000000912	CD86	CD86 Molecule	2	0.01	0.05	0.00	2.78E-05
ENSMMUG00000000971	TTL9	Tubulin Tyrosine Ligase Like 9	10	0.11	5.88	0.00	1.26E-03
ENSMMUG00000001176	SPART	Spartin	17	0.03	0.84	0.00	4.49E-02
ENSMMUG00000001224	NIM1K	NIM1 Serine/threonine Protein Kinase	6	0.00	0.66	0.00	6.27E-08
ENSMMUG00000001475	TMEFF2	Transmembrane Protein With EGF Like And Two Follistatin Like Domains 2	12	1.01	0.05	0.00	1.29E-05
ENSMMUG00000001505	KRT23	Keratin 23	16	0.01	0.40	0.00	2.26E-02
ENSMMUG00000001814	LMCD1	LIM And Cysteine Rich Domains 1	2	0.24	0.00	0.00	5.30E-07
ENSMMUG00000001827	PLPPR1	Phospholipid Phosphatase Related 1	15	0.00	0.51	0.00	5.27E-06
ENSMMUG00000002168	MARCH10	Membrane Associated Ring-CH-type Finger 10	16	0.00	0.21	0.00	5.71E-09
ENSMMUG00000002488			6	0.07	0.37	0.00	1.06E-03
ENSMMUG00000002636			16	0.00	0.20	0.00	1.01E-02
ENSMMUG00000002866	LGALS2	Galectin 2	10	0.23	0.00	0.00	7.16E-03
ENSMMUG00000002933	NR1D1	Nuclear Receptor Subfamily 1 Group D Member 1	16	3.61	0.25	0.00	1.83E-03
ENSMMUG00000003071	MBNL3	Muscleblind Like Splicing Regulator 3	X	0.41	0.00	0.00	6.71E-13
ENSMMUG00000003082	PAGE4	PAGE Family Member 4	X	0.00	16.22	0.00	2.55E-08
ENSMMUG00000003673	PM20D1	Peptidase M20 Domain Containing 1	1	3.68	0.24	0.00	6.85E-05
ENSMMUG00000004154	TCEAL5	Transcription Elongation Factor A Like 5	X	0.29	0.00	0.00	3.37E-09
ENSMMUG00000004245			19	0.00	1.89	0.00	6.71E-13
ENSMMUG00000004330	PAMR1	Peptidase Domain Containing Associated With Muscle Regeneration 1	14	0.03	0.00	0.00	1.12E-14
ENSMMUG00000004490	IFI16	Interferon Gamma Inducible Protein 16	1	0.01	0.00	0.00	1.39E-04
ENSMMUG00000005063	CDKL5	Cyclin Dependent Kinase Like 5	X	39.26	7.14	0.00	2.01E-02
ENSMMUG00000005093	KLHL32	Kelch Like Family Member 32	4	0.04	0.00	0.00	6.46E-06
ENSMMUG00000005440	ELMOD1	ELMO Domain Containing 1	14	0.00	0.83	0.00	3.52E-02
ENSMMUG00000006450	HTATSF1	HIV-1 Tat Specific Factor 1	X	38.80	10.00	0.00	4.81E-02
ENSMMUG00000006619			1	0.00	1.25	0.00	9.19E-06
ENSMMUG00000006670			17	3.83	0.00	0.00	1.52E-06
ENSMMUG00000006766	RUNDC3B	RUN Domain Containing 3B	3	1.34	0.00	0.00	3.20E-12
ENSMMUG00000006985			12	0.01	1.48	0.00	3.54E-04
ENSMMUG00000007859	FMNL1	Formin Like 1	16	0.85	0.40	0.00	4.80E-13
ENSMMUG00000008094			8	0.08	0.00	0.00	1.75E-07
ENSMMUG00000008574	USP50	Ubiquitin Specific Peptidase 50	7	0.01	0.01	0.00	5.82E-07
ENSMMUG00000008596	TMEM176B	Transmembrane Protein 176B	3	0.01	2.17	0.00	3.69E-02
ENSMMUG00000008793	SPP1	Secreted Phosphoprotein 1	5	0.01	0.00	0.00	4.83E-02
ENSMMUG00000008924	PLLP	Plasmolipin	20	0.03	2.68	0.00	4.69E-02
ENSMMUG00000010682	FBN2	Fibrillin 2	6	0.02	0.17	0.00	2.92E-02
ENSMMUG00000011304	PSMB9	Proteasome Subunit Beta 9	4	0.00	0.08	0.00	8.17E-05
ENSMMUG00000011770	AVL9	AVL9 Cell Migration Associated	3	0.32	1.08	0.00	9.73E-03
ENSMMUG00000011824			8	0.00	0.10	0.00	4.75E-05
ENSMMUG00000011876			7	0.00	0.01	0.00	3.97E-02
ENSMMUG00000011956	CAMK1D	Calcium/calmodulin Dependent Protein Kinase ID	9	0.99	0.00	0.00	4.01E-08
ENSMMUG00000012513	LACTB2	Lactamase Beta 2	8	0.00	0.37	0.00	4.10E-08
ENSMMUG00000012650	BCL7A	BCL Tumor Suppressor 7A	11	0.03	1.81	0.00	2.92E-02
ENSMMUG00000012838	OTUD7A	OTU Deubiquitinase 7A	7	0.07	0.06	0.00	4.10E-08
ENSMMUG00000013816			5	0.15	0.00	0.00	6.02E-05
ENSMMUG00000013837	SHISA9	Shisa Family Member 9	20	0.00	0.03	0.00	2.42E-04

ENSMMUG00000014670	PYGL	Glycogen Phosphorylase L	7	0.34	4.06	0.00	7.27E-03
ENSMMUG00000014718	SLC8A2	Solute Carrier Family 8 Member A2	19	0.03	0.94	0.00	3.49E-03
ENSMMUG00000014787	SLC6A16	Solute Carrier Family 6 Member 16	19	20.61	0.27	0.00	3.69E-02
ENSMMUG00000015018	CD5	CD5 Molecule	14	0.01	0.02	0.00	3.20E-06
ENSMMUG00000015297	CD69	CD69 Molecule	11	0.00	0.08	0.00	2.14E-09
ENSMMUG00000015320	KCNQ5	Potassium Voltage-gated Channel Subfamily Q Member 5	4	0.14	0.57	0.00	4.47E-02
ENSMMUG00000016669	ZNF385A	Zinc Finger Protein 385A	11	0.00	0.18	0.00	2.28E-15
ENSMMUG00000016802	CTCF	CCCTC-binding Factor Like	10	0.17	0.28	0.00	4.94E-03
ENSMMUG00000016984	PHF7	PHD Finger Protein 7	2	0.94	6.46	0.00	1.01E-02
ENSMMUG00000017711	LZTS1	Leucine Zipper Tumor Suppressor 1	8	0.00	0.00	0.00	3.94E-06
ENSMMUG00000017783	LOC100424148	Uncharacterized Protein CXorf49-like	X	1.15	0.00	0.00	2.28E-09
ENSMMUG00000018084	RSPH1	Radial Spoke Head 1 Homolog	3	0.00	0.34	0.00	1.84E-05
ENSMMUG00000018090	GLP2R	Glucagon Like Peptide 2 Receptor	16	3.77	3.16	0.00	4.93E-02
ENSMMUG00000018584	NUAK2	NUAK Family Kinase 2	1	0.01	0.54	0.00	1.85E-02
ENSMMUG00000018808	PRAM1	PML-RARA Regulated Adaptor Molecule 1	19	0.07	0.00	0.00	4.25E-10
ENSMMUG00000019020	SLC2A7	Solute Carrier Family 2 Member 7	1	0.00	0.00	0.00	4.24E-02
ENSMMUG00000019031	GPR4	G Protein-coupled Receptor 4	19	0.00	1.18	0.00	1.56E-11
ENSMMUG00000020004	RASSF2	Ras Association Domain Family Member 2	10	0.00	0.04	0.00	3.58E-05
ENSMMUG00000020405	PLA2G12B	Phospholipase A2 Group XIIB	9	0.00	0.34	0.00	2.66E-02
ENSMMUG00000020494			19	0.00	0.02	0.00	9.73E-03
ENSMMUG00000020656	ACOT12	Acyl-CoA Thioesterase 12	6	0.00	0.13	0.00	1.52E-06
ENSMMUG00000020776	PRKCC	Protein Kinase C Theta	9	0.00	5.36	0.00	4.45E-04
ENSMMUG00000020826	LOC710254	Uncharacterized Protein C12orf76	11	0.40	0.00	0.00	5.79E-13
ENSMMUG00000021783	IGDCC3	Immunoglobulin Superfamily DCC Subclass Member 3	7	0.00	1.19	0.00	2.31E-05
ENSMMUG00000022133	CRYAB	Crystallin Alpha B	14	0.00	0.07	0.00	3.89E-04
ENSMMUG00000022217	CBLN1	Cerebellin 1 Precursor	20	0.55	0.00	0.00	5.82E-07
ENSMMUG00000022471			6	0.56	0.94	0.00	6.44E-03
ENSMMUG00000022734	LOC701233	Type-1 Protein Phosphatase Inhibitor 4	X	0.00	0.07	0.00	7.16E-03
ENSMMUG00000022862	DKK3	Dickkopf WNT Signaling Pathway Inhibitor 3	14	0.00	0.00	0.00	2.78E-05
ENSMMUG00000022996			13	0.00	0.46	0.00	1.21E-12
ENSMMUG00000023194	FAM221A	Family With Sequence Similarity 221 Member A	3	0.26	0.00	0.00	3.08E-05
ENSMMUG00000027033	MIR421	MicroRNA 421	X	4.00	0.00	0.00	3.08E-05
ENSMMUG00000029603			7	0.00	0.52	0.00	2.17E-16
ENSMMUG00000030952	LOC706715	Tripartite Motif-containing Protein 51	14	0.13	3.94	0.00	4.96E-02
ENSMMUG00000031100	MS4A4A	Membrane Spanning 4-domains A4A	14	0.39	0.05	0.00	6.62E-05
ENSMMUG00000031123	SCGB1A1	Secretoglobin Family 1A Member 1	14	0.02	0.00	0.00	1.22E-02
ENSMMUG00000031231	DEFB116	Defensin Beta 116	10	0.34	0.00	0.00	2.38E-05
ENSMMUG00000031636	C11H12orf74	Chromosome 11 Open Reading Frame, Human C12orf74	11	1.36	0.08	0.00	7.12E-03
ENSMMUG00000032367			X	0.77	0.00	0.00	2.46E-11
ENSMMUG00000032490			1	0.02	0.02	0.00	8.36E-04
ENSMMUG00000037555	LOC715706	Schlafen Family Member 13	16	0.10	5.60	0.00	2.02E-02
ENSMMUG00000037671			9	0.01	0.04	0.00	4.94E-02
ENSMMUG00000037916			17	0.34	0.00	0.00	4.10E-04
ENSMMUG00000038049			X	0.01	0.01	0.00	4.02E-02
ENSMMUG00000038182	UTY	Ubiquitously Transcribed Tetratricopeptide Repeat Containing, Y-linked	Y	0.05	3.88	0.00	2.39E-03
ENSMMUG00000038331	RPS4Y1	Ribosomal Protein S4, Y-linked 1	Y	0.08	52.72	0.00	1.75E-07
ENSMMUG00000038468			3	1.87	0.00	0.00	6.71E-13
ENSMMUG00000038526			13	0.00	0.63	0.00	2.91E-02
ENSMMUG00000038641			2	0.00	0.21	0.00	1.18E-05
ENSMMUG00000038729			7	0.02	0.14	0.00	2.78E-03
ENSMMUG00000038763			7	0.16	3.35	0.00	3.69E-02
ENSMMUG00000038777			13	0.00	0.51	0.00	1.98E-06

ENSMMUG00000038824	RPS4Y2	Ribosomal Protein S4, Y-linked 2	Y	0.06	58.18	0.00	1.41E-07
ENSMMUG00000038881			11	0.01	0.41	0.00	1.69E-04
ENSMMUG00000039113			9	0.01	0.00	0.00	4.81E-02
ENSMMUG00000039610			20	18.25	4.64	0.00	6.16E-03
ENSMMUG00000040090	LOC706584	Uncharacterized LOC706584	7	1.53	0.46	0.00	3.49E-14
ENSMMUG00000040394			18	1.52	0.00	0.00	4.10E-18
ENSMMUG00000040598	LOC106995531	Histone H2A-Bbd Type 2/3-like	JSUE03070105.1	0.97	0.00	0.00	1.39E-04
ENSMMUG00000041438			17	0.17	0.00	0.00	1.99E-03
ENSMMUG00000041477	FAM110B	Family With Sequence Similarity 110 Member B	8	0.04	0.00	0.00	1.37E-03
ENSMMUG00000041553			4	0.03	0.00	0.00	4.51E-07
ENSMMUG00000041692			Y	0.07	3.12	0.00	1.58E-02
ENSMMUG00000041733	TMEM233	Transmembrane Protein 233	11	0.02	0.86	0.00	3.96E-04
ENSMMUG00000041743			3	0.00	0.01	0.00	1.01E-02
ENSMMUG00000042270			4	0.00	0.01	0.00	2.09E-02
ENSMMUG00000042377			2	0.00	0.02	0.00	1.42E-04
ENSMMUG00000042668			10	0.25	0.07	0.00	4.10E-08
ENSMMUG00000042677			17	0.03	0.06	0.00	1.69E-04
ENSMMUG00000042689			15	0.00	1.76	0.00	3.64E-03
ENSMMUG00000043144			14	0.27	0.00	0.00	2.93E-02
ENSMMUG00000043173			15	0.00	0.06	0.00	1.95E-02
ENSMMUG00000043240			7	0.00	12.26	0.00	1.74E-09
ENSMMUG00000043377			JSUE03334786.1	0.33	0.05	0.00	4.23E-02
ENSMMUG00000043394			10	0.00	1.21	0.00	5.84E-08
ENSMMUG00000043599			16	0.00	0.46	0.00	4.83E-02
ENSMMUG00000043698			12	0.88	0.00	0.00	1.00E-12
ENSMMUG00000043715	EIF1AY	Eukaryotic Translation Initiation Factor 1A, Y-linked	Y	0.47	36.58	0.00	5.23E-03
ENSMMUG00000043733			4	0.22	0.01	0.00	1.84E-02
ENSMMUG00000043966	DDX3Y	DEAD-box Helicase 3, Y-linked	Y	0.76	21.39	0.00	8.63E-12
ENSMMUG00000044194			1	6.52	0.00	0.00	4.58E-06
ENSMMUG00000044322	FGFBP3	Fibroblast Growth Factor Binding Protein 3	9	0.16	0.19	0.00	3.88E-12
ENSMMUG00000044514	PSORS1C2	Psoriasis Susceptibility 1 Candidate 2	4	0.35	0.93	0.00	2.31E-02
ENSMMUG00000044549			JSUE03303087.1	2.26	0.00	0.00	5.20E-05
ENSMMUG00000044802			1	0.00	0.74	0.00	8.09E-04
ENSMMUG00000045303			13	0.37	0.00	0.00	1.05E-05
ENSMMUG00000045369			11	0.64	0.00	0.00	6.88E-04
ENSMMUG00000045648	MXRA7	Matrix Remodeling Associated 7	16	0.01	1.00	0.00	3.84E-02
ENSMMUG00000046049			3	0.35	0.00	0.00	2.31E-02
ENSMMUG00000046375			17	0.00	0.01	0.00	4.56E-02
ENSMMUG00000046378	ZFY	Zinc Finger Protein, Y-linked	Y	0.07	1.48	0.00	1.85E-02
ENSMMUG00000046587			8	0.00	0.19	0.00	8.24E-09
ENSMMUG00000046589			11	2.84	23.86	0.00	2.05E-03
ENSMMUG00000046647	FAM209B	Family With Sequence Similarity 209 Member B	10	0.52	0.42	0.00	6.00E-04
ENSMMUG00000047082			7	0.07	0.12	0.00	3.40E-04
ENSMMUG00000047599			JSUE03084820.1	6.66	0.00	0.00	1.59E-10
ENSMMUG00000047960	SVEP1	Sushi, Von Willebrand Factor Type A, EGF And Pentraxin Domain Containing 1	15	0.13	0.24	0.00	2.56E-02
ENSMMUG00000048003			JSUE03261988.1	0.53	0.00	0.00	1.35E-10
ENSMMUG00000048323			6	0.00	0.02	0.00	7.16E-03
ENSMMUG00000048330			12	0.02	0.00	0.00	1.19E-06
ENSMMUG00000048684			7	0.39	0.02	0.00	9.56E-03
ENSMMUG00000048768			14	0.04	0.78	0.00	1.52E-06
ENSMMUG00000048947			2	0.00	1.20	0.00	1.16E-03
ENSMMUG00000049101	LOC100431025	Olfactory Receptor 2T10	KQ742257.1	0.00	0.08	0.00	9.50E-03
ENSMMUG00000049104	CYHYorf15B	Chromosome Y Open Reading Frame, Human CYorf15B	Y	0.06	3.72	0.00	6.54E-03

a) FPKM: Fragments Per Kilobase of transcript per Million mapped reads.

b) L2FC: Log fold change of base 2. Positive values indicate expression higher in female vs. male.

c) FDR: False discovery rate. Adjusted p-value using the Benjamin-Hochberg method.