

Supplementary-Table S1 Reproduction-related DEGs at different stages

Unigene name	Gene symbol	Padj	Log2 (fold)	Expression quantity	Trend
evm.TU.group18.1135	<i>adra2a</i>	0.017127	lnf	IIIIV-VS-II	up
evm.TU.group19.1125	<i>uts2r</i>	0.016681	lnf	IIIIV-VS-II	up
evm.TU.group22.516	<i>chrn2</i>	0.035585	lnf	IIIIV-VS-II	up
evm.TU.group4.285	<i>cyp19a1</i>	0.018537	lnf	IIIIV-VS-II	up
evm.TU.group5.88	<i>npbwr1</i>	0.047532	lnf	IIIIV-VS-II	up
evm.TU.group6.1217	<i>ghsr</i>	lnf	1.2298E-15	IIIIV-VS-II	up
evm.TU.group9.1070	<i>fgf16</i>	9.2794	2.537E-20	IIIIV-VS-II	up
evm.TU.group0.572	<i>itr</i>	7.08	6.8037E-06	IIIIV-VS-II	up
evm.TU.group19.455	<i>star</i>	6.9532	4.7244E-33	IIIIV-VS-II	up
evm.TU.group4.284	<i>cyp19a2</i>	6.5031	3.5787E-06	IIIIV-VS-II	up
evm.TU.group19.374	<i>fshr</i>	6.3578	3.5924E-39	IIIIV-VS-II	up
evm.TU.group16.385	<i>mmd2</i>	6.0584	1.1661E-09	IIIIV-VS-II	up
evm.TU.group7.357	<i>hsd17b3</i>	6.029	0.00001664	IIIIV-VS-II	up
evm.TU.group5.65	<i>opr11</i>	5.6587	0.0025566	IIIIV-VS-II	up
evm.TU.group4.398	<i>cyp11a1</i>	5.4765	1.006E-21	IIIIV-VS-II	up
evm.TU.group3.816	<i>amh</i>	5.2263	8.4033E-34	IIIIV-VS-II	up
evm.TU.group12.748	<i>fgfr2</i>	5.169	5.5984E-37	IIIIV-VS-II	up
evm.TU.group17.556	<i>esr1</i>	4.8374	1.0098E-35	IIIIV-VS-II	up
evm.TU.group13.335	<i>thbd</i>	4.5722	2.2065E-11	IIIIV-VS-II	up
evm.TU.group23.295	<i>vegfc</i>	4.5107	9.7747E-09	IIIIV-VS-II	up
evm.TU.group9.1192	<i>vegfa</i>	4.3171	2.6437E-09	IIIIV-VS-II	up
evm.TU.group1.931	<i>gnrhr2</i>	4.2187	0.00003136 3	IIIIV-VS-II	up
evm.TU.group12.557	<i>lhgr</i>	4.2146	2.9407E-17	IIIIV-VS-II	up
evm.TU.group3.487	<i>ptger3</i>	4.089	5.8082E-07	IIIIV-VS-II	up
evm.TU.group21.675	<i>per2</i>	4.066	1.6954E-33	IIIIV-VS-II	up
Novel01696	<i>sstr2</i>	lnf	0.0054441	IIIIV-VS-III	up
evm.TU.group18.1110	<i>adra2c</i>	lnf	0.049642	IIIIV-VS-III	up
evm.TU.group4.284	<i>cyp19a2</i>	7.2324	6.1346E-10	IIIIV-VS-III	up
evm.TU.group19.455	<i>star</i>	6.8959	4.9446E-45	IIIIV-VS-III	up
evm.TU.group1.343	<i>cyp19a1</i>	6.2384	1.1447E-61	IIIIV-VS-III	up
evm.TU.group0.572	<i>itr</i>	5.4764	2.5578E-06	IIIIV-VS-III	up
evm.TU.group12.557	<i>lhgr</i>	5.0818	5.0522E-26	IIIIV-VS-III	up
evm.TU.group1.931	<i>gnrhr2</i>	4.5862	2.1034E-07	IIIIV-VS-III	up
evm.TU.group21.34	<i>cyp17a1</i>	4.4207	0.0010516	IIIIV-VS-III	up
evm.TU.group7.357	<i>hsd17b3</i>	4.1668	0.00001173	IIIIV-VS-III	up
evm.TU.group2.440	<i>cxcl12</i>	4.0685	7.883E-27	IIIIV-VS-III	up
evm.TU.group13.879	<i>5ht1b</i>	lnf	0.00032065	V_1-VS-II	up
evm.TU.group6.1217	<i>ghsr</i>	lnf	0.00002367 5	V_1-VS-II	up

evm.TU.group7.357	<i>hsd17b3</i>	7.9548	0.00003764 2	V_1-VS-II	up
evm.TU.group16.385	<i>mmd2</i>	7.473	1.9263E-17	V_1-VS-II	up
evm.TU.group9.1227_e vm.TU.group9.1228	<i>slc5a7</i>	7.4473	3.8504E-17	V_1-VS-II	up
evm.TU.group13.940	<i>ghsr</i>	7.2135	0.009761	V_1-VS-II	up
evm.TU.group16.1286	<i>aqp8</i>	7.0565	2.6458E-06	V_1-VS-II	up
evm.TU.group19.455	<i>star</i>	7.0448	0.0059265	V_1-VS-II	up
evm.TU.group21.320	<i>plac8</i>	6.5904	0.000696	V_1-VS-II	up
evm.TU.group17.556	<i>esr1</i>	6.1698	4.9387E-77	V_1-VS-II	up
evm.TU.group4.398	<i>cyp11a1</i>	6.1618	1.3857E-13	V_1-VS-II	up
evm.TU.group12.537	<i>lhcg</i>	5.4383	7.1732E-24	V_1-VS-II	up
evm.TU.group1.247	<i>tspan4</i>	5.3756	9.7397E-17	V_1-VS-II	up
evm.TU.group19.374	<i>fshr</i>	5.2995	4.6981E-09	V_1-VS-II	up
evm.TU.group1.456	<i>aqp9</i>	5.225	0.0006894	V_1-VS-II	up
evm.TU.group4.503	<i>igf1r</i>	5.201	0.00002973 9	V_1-VS-II	up
evm.TU.group6.797	<i>bmp2</i>	5.1953	3.1102E-12	V_1-VS-II	up
evm.TU.group5.1343	<i>ctgf</i>	5.0098	0.046568	V_1-VS-II	up
evm.TU.group21.34	<i>cyp17a1</i>	4.8139	6.3392E-17	V_1-VS-II	up
evm.TU.group17.761	<i>esrrg</i>	4.602	0.045916	V_1-VS-II	up
evm.TU.group4.68	<i>igf2</i>	4.5985	5.9372E- 24	V_1-VS-II	up
evm.TU.group6.1235	<i>pgr</i>	4.5108	2.2961E-19	V_1-VS-II	up
evm.TU.group4.1088	<i>zpl</i>	4.0771	1.3931E-06	V_1-VS-II	up
evm.TU.group19.1023	<i>dmc1</i>	-4.9351	5.0971E-08	V_1-VS-II	down
evm.TU.group18.1135	<i>adra2a</i>	6.6301	0.0032896	V_1-VS-III	up
evm.TU.group18.1092	<i>adra2c</i>	Inf	0.038904	V_1-VS-III	up
evm.TU.group19.455	<i>star</i>	6.9679	0.00084422	V_1-VS-III	up
evm.TU.group3.490	<i>vtg</i>	6.3648	0.0052531	V_1-VS-III	up
evm.TU.group8.116	<i>trhr</i>	5.6285	1.6692E-17	V_1-VS-III	up
evm.TU.group16.1160	<i>nrb</i>	5.0238	0.0055353	V_1-VS-III	up
evm.TU.group7.624	<i>aqp3</i>	8.8494	3.7937E-06	V_2-VS-II	up
evm.TU.group10.738	<i>slc43a2</i>	7.5253	4.3848E-33	V_2-VS-II	up
evm.TU.group21.320	<i>plac8</i>	5.4464	9.8576E-06	V_2-VS-II	up
evm.TU.group5.557	<i>pga</i>	5.3981	0.00003718 2	V_2-VS-II	up
evm.TU.group2.440	<i>cxcl12</i>	0.019531	4.6699	V_2-VS-II	up
evm.TU.group5.1229	<i>gos2</i>	0.022529	4.6682	V_2-VS-II	up
evm.TU.group3.490	<i>vtg</i>	0.028672	4.8528	V_2-VS-III	up
evm.TU.group4.460	<i>nmb</i>	0.00012312	Inf	V_2-VS-IIIIV	up
evm.TU.group0.1146	<i>slc5a8</i>	0.00003013 3	8.8554	V_2-VS-IIIIV	up

evm.TU.group4.1088	<i>zpl</i>	3.9446E-12	-7.1991	LA-VS-V_1	down
evm.TU.group5.557	<i>pga</i>	3.4722E-12	-6.5038	LA-VS-V_1	down
evm.TU.group11.261	<i>zp3</i>	8.1221E-15	-5.2062	LA-VS-V_1	down
evm.TU.group15.460	<i>zp4</i>	6.7778E-23	-4.5228	LA-VS-V_1	down
evm.TU.group17.229	<i>zp2</i>	2.5653E-22	-4.4441	LA-VS-V_1	down
evm.TU.group10.821	<i>zar1</i>	1.8638E-21	-4.398	LA-VS-V_1	down
Novel02618	<i>hcel</i>	1.4412E-08	-4.3445	LA-VS-V_1	down