

**Table S2.** Differentially expressed genes identified by RNA-seq. M-value is equal to log2 fold changes. N.A stands for not available.

Official gene symbol	Expression level (RPKM)	RNAseq Day2 M-value	RNAseq Day2 FDR	RNAseq Day4 M-value	RNAseq Day4 FDR	Array Day2 M-value	Array Day2 FDR
<i>Ttn</i>	7	1.0	0.0E+00	0.6	2.5E-141	0.0	0.94
<i>Tpcn1</i>	60	-1.3	0.0E+00	-0.7	7.7E-85	-0.6	0.0000
<i>Tmbim6</i>	180	-0.6	0.0E+00	-1.0	0.0E+00	-0.7	0.0000
<i>Thbs1</i>	169	0.9	0.0E+00	0.2	2.4E-129	-0.4	0.0000
<i>Sh3glb1</i>	191	0.9	0.0E+00	0.2	3.5E-114	0.4	0.0004
<i>Sdpr</i>	84	1.5	0.0E+00	1.3	0.0E+00	0.6	0.0000
<i>Scd1</i>	596	1.0	0.0E+00	0.2	0.0E+00	-0.2	0.22
<i>Npnt</i>	97	1.7	0.0E+00	1.0	0.0E+00	0.1	0.08
<i>Mylpf</i>	440	1.0	0.0E+00	0.9	1.9E-247	-0.2	0.40
<i>Myh3</i>	96	1.0	0.0E+00	0.8	3.5E-258	N.A.	N.A.
<i>Ly6a</i>	664	1.5	0.0E+00	0.5	3.9E-207	0.0	0.95
<i>Lpp</i>	33	1.1	0.0E+00	0.2	1.6E-80	N.A.	N.A.
<i>Itgb1</i>	659	0.8	0.0E+00	1.3	0.0E+00	0.0	0.70
<i>H19</i>	1349	0.8	0.0E+00	1.0	0.0E+00	0.3	0.07
<i>Gsta4</i>	448	-0.8	0.0E+00	-0.5	2.0E-45	-0.2	0.05
<i>Gm11410</i>	1678	0.7	0.0E+00	0.6	0.0E+00	N.A.	N.A.
<i>Col18a1</i>	66	-0.6	0.0E+00	-0.5	2.8E-25	-0.9	0.0000
<i>Cfl1</i>	629	-0.8	0.0E+00	-0.6	1.2E-115	N.A.	N.A.
<i>AY036118</i>	407	-1.4	0.0E+00	-1.6	5.0E-184	N.A.	N.A.
<i>Actc1</i>	201	1.4	0.0E+00	0.6	2.4E-55	0.3	0.019
<i>Acta2</i>	623	0.8	0.0E+00	0.9	0.0E+00	-0.1	0.62
<i>Krt80</i>	63	1.4	4.0E-304	0.5	9.1E-119	0.0	0.99
<i>Baspl</i>	168	-0.9	2.5E-285	-0.3	1.2E-05	0.0	0.65
<i>Gm10222</i>	2085	0.9	3.1E-267	1.7	0.0E+00	N.A.	N.A.
<i>Vcl</i>	245	0.6	4.6E-258	0.1	4.9E-69	-0.2	0.13
<i>Gm13339</i>	1315	0.9	2.7E-254	1.2	0.0E+00	N.A.	N.A.
<i>Hkl1</i>	39	-0.7	1.9E-243	-1.0	1.1E-174	N.A.	N.A.
<i>Mfap3l</i>	115	0.9	1.0E-227	1.2	0.0E+00	0.0	0.96
<i>Fndc3a</i>	30	1.1	2.4E-216	0.0	8.3E-14	N.A.	N.A.
<i>Pkia</i>	51	1.4	2.2E-213	0.7	1.2E-118	0.7	0.0000
<i>Sfrp2</i>	40	-1.1	1.0E-208	-1.3	1.8E-15	-0.6	0.0000
<i>Ppic</i>	120	-1.1	3.9E-206	-1.9	0.0E+00	-0.8	0.0000
<i>Sema3d</i>	32	1.1	3.1E-199	0.6	8.0E-76	N.A.	N.A.
<i>Igf2</i>	28	1.7	6.5E-198	1.9	0.0E+00	0.3	0.04
<i>Qk</i>	93	0.7	5.4E-194	0.5	0.0E+00	N.A.	N.A.
<i>Mir5115</i>	1017	-1.6	8.0E-193	-3.6	0.0E+00	N.A.	N.A.
<i>Cald1</i>	158	0.7	1.3E-185	0.1	4.6E-81	0.0	0.58
<i>Rod1</i>	44	1.2	6.5E-180	0.3	3.6E-95	N.A.	N.A.
<i>Ap3m1</i>	96	0.7	2.7E-179	0.3	3.3E-151	0.0	1.00
<i>Ccdc141</i>	21	1.0	4.1E-176	0.4	1.7E-58	N.A.	N.A.
<i>Samd8</i>	30	1.2	8.4E-172	0.6	9.6E-146	0.1	0.26
<i>Mir5105</i>	798	-1.4	1.3E-171	-1.6	9.5E-62	N.A.	N.A.
<i>Atp13a3</i>	87	0.8	7.1E-162	0.5	0.0E+00	N.A.	N.A.
<i>Csnk1g2</i>	77	-0.7	3.3E-150	-1.1	3.0E-135	-0.3	0.06

There are more than 700 genes that did not show due to the limited space and the complete list is in the excel file.