

SUPPLEMENTARY DATA 1

Top 92 DEGs in the muscle with the highest correlation to TA weight ($|r| > 0.75$).

Gene name	FDR	Fold change	Pearson correlation coefficient with TA weight
2310022A10Rik	2.42E-02	1.28	-0.78
4632428C04Rik	4.31E-02	-2.05	0.9
4930551O13Rik	2.54E-03	3.42	-0.79
Abi3	1.30E-02	1.58	-0.81
Acin1	3.13E-02	1.27	-0.82
Ackr1	1.75E-04	2.77	-0.94
Adi1	9.80E-03	-1.35	0.8
Angpt2	1.02E-06	2.47	-0.87
Arhgap24	3.80E-03	1.47	-0.83
Arntl	4.14E-02	2.11	-0.83
Avil	1.21E-02	2.46	-0.93
Bhlhe40	1.53E-03	1.63	-0.8
Bhlhe41	2.99E-02	-1.39	0.89
C1qbp	4.61E-02	-1.97	0.85
Casr	2.45E-03	1.96	-0.91
Cavin4	1.58E-04	1.34	-0.81
Ccl2	2.94E-08	4.99	-0.85
Ccne2	2.44E-02	-1.51	0.94
Clic4	3.65E-02	1.39	-0.92
Colec11	2.80E-02	2.21	-0.8
Crip3	3.61E-03	-4.97	0.84
Csf2rb	4.26E-02	2.29	-0.85
Cxcl14	6.33E-03	-1.74	0.85
D1Ertd622e	2.97E-02	-1.62	0.8
Dnajb5	3.64E-05	1.36	-0.77
Dnm3	9.79E-04	1.87	-0.78
Dusp14	4.61E-02	-1.90	0.76
Eepd1	6.94E-03	1.37	-0.75
Egr1	4.09E-04	2.01	-0.93
Eloa	5.57E-07	1.42	-0.78
Eng	2.67E-03	1.42	-0.89
Ephx1	1.82E-04	1.61	-0.84
Fam76a	2.63E-02	-1.29	0.81
Fam89b	4.67E-02	-1.78	0.75
Fbxo9	3.81E-02	1.52	-0.78
Fgfr3	2.34E-02	2.24	-0.83
Fntb	2.96E-02	1.29	-0.87
Galnt18	6.17E-03	1.52	-0.75
Gm14698	1.99E-03	-1.86	0.77
Gm17056	4.09E-02	1.48	-0.83
Gm27252	2.12E-03	2.74	-0.79

Gstm2	4.38E-05	1.92	-0.82
Hectd2os	1.21E-05	3.04	-0.86
Hey1	1.53E-03	2.07	-0.82
Icam1	2.29E-06	3.05	-0.86
Ier3	5.55E-04	1.55	-0.75
Ifrd1	1.94E-05	2.00	-0.83
Il2rg	2.15E-03	2.23	-0.8
Klhl30	1.69E-03	1.41	-0.96
Klk1b26	1.99E-04	3.92	-0.76
Litaf	2.55E-02	1.61	-0.85
Lonrf1	1.82E-04	-2.23	0.87
Lrg1	8.70E-04	1.65	-0.81
Lrrc8c	4.22E-02	1.50	-0.8
Ltc4s	5.72E-04	3.43	-0.88
Ly6a	5.37E-03	1.42	-0.86
Ly6e	1.14E-02	1.30	-0.81
Maco1	1.09E-02	-1.52	0.8
Mbnl2	4.97E-03	1.25	-0.83
Mmrn2	2.46E-07	1.50	-0.89
Nwd1	5.00E-02	2.46	-0.76
Oat	1.40E-02	1.37	-0.75
Ostn	5.55E-04	-2.98	0.79
Otub2	3.27E-03	1.64	-0.92
P3h4	1.99E-03	-2.36	0.79
Paqr7	2.69E-05	-2.13	0.79
Parp8	6.33E-04	-1.66	0.88
Pcp4l1	8.25E-04	-2.01	0.86
Pdia5	1.60E-04	2.22	-0.83
Pfkfb3	1.12E-24	3.18	-0.8
Pfkl	5.57E-07	1.78	-0.82
Pgf	5.85E-05	2.89	-0.82
Pnmt	2.16E-18	9.98	-0.79
Ppp1r15a	2.99E-02	2.02	-0.77
Rbbp7	4.09E-02	-1.22	0.77
Rel1	3.57E-02	-1.38	0.8
Rgs2	2.91E-02	-2.16	0.84
Ripk3	2.97E-02	2.04	-0.81
Sdc4	4.26E-02	1.33	-0.81
Slc46a3	7.48E-04	-1.67	0.83
Slc8a1	6.20E-04	1.81	-0.9
Smyd4	5.42E-03	1.41	-0.92
Ssx2ip	4.42E-02	-1.52	0.92
Tafa5	4.50E-02	2.36	-0.75
Tnfrsf12a	1.36E-03	2.60	-0.77
Tnfrsf12	1.19E-02	-1.58	0.78
Traf7	6.95E-04	1.39	-0.75
Trim16	4.37E-02	-1.44	0.9
Uap1	4.60E-02	-1.32	0.87

Vwf	6.97E-03	1.89	-0.92
Zfp217	3.66E-02	-2.06	0.75
Zfp35	4.49E-03	1.51	-0.83