

Rasmussen et al.

Supplementary Table S1

ECM and Structure	mut1 vs wt1	mut2 vs wt2
Down regulated genes		
Rein	0.64	0.25
Tppp3	0.36	0.38
Mfap4	0.5	0.38

Skeletal Muscle	mut1 vs wt1	mut2 vs wt2
Up regulated genes		
Tcf15	2.48	2.46
Mib2	1.89	2.12
Down regulated genes		
Phox2b	0.313	0.605
Barx1	0.515	0.247

Proliferation, ER Stress, and Autophagy	mut1 vs wt1	mut2 vs wt2
Up regulated genes		
Chac1	15.6	16.2
Trib3	5.42	4.82
Ndrp1	4.94	4.16
Lims2	5.33	4.09
Atf5	2.35	3.12
Jundm2	3.05	2.85
Igfbp2	2.88	2.39
Bnip3	1.85	2.83
Otub2	2.47	3.02
Eif4ebp1	2.47	2.44
Stag3	2.06	1.66
Nfil3	2.07	1.47
Jmjd6	1.62	1.66
Atraid	1.54	2
Dab2	1.52	2.07
Ccnl2	1.47	3.11
Down regulated genes		
Pik3r3	0.33	0.37
Afp	0.2	0.04
Idh1	0.47	0.23
Ubtf	0.58	0.42
Ccar1	0.69	0.4
Mtvr2	0.57	0.43

Angiogenesis and Hematopoiesis	mut1 vs wt1	mut2 vs wt2
Up regulated genes		
Adm	4.96	7.19
Alas	1.6	1.6
Egln1	3.86	3.8
Egln3	6.75	5.9
Plek	3.53	3.39
Vegfa	4.01	6.28
Egr1	1.91	2.42
Cxcl4	8.63	3.64
Efna1	1.45	1.87
Down regulated genes		
Vtn	0.25	0.21

Cardiogenesis	mut1 vs wt1	mut2 vs wt2
Up regulated genes		
Acta1	3.08	6.08
Muc2	3.61	6.61
Hspa1b	4.14	3.13
Pdk1	3.74	2.32
Dkk3	2.37	2.73
Zic3	2.36	2.27
Nkx2.3	1.45	1.42
Obecn	2.42	2.03
Ftcd	1.88	2.26
Leprel1	2.26	1.93
Myh10	1.55	2.91
Tpm2	1.54	1.65
Lrrc10	2.19	1.67
Fos	2.01	2.73
Krt8	2.43	1.58
Wnt6	2.02	1.55
Mbnl2	1.51	2.54
Pax8	1.43	2.32
Snail3	2.54	1.8
Arsa	2.03	1.82
Bag2	1.48	1.84
Tcf25	1.45	1.86
Atp2a2	1.6	2.07
Pgk1	1.85	2.57
Down regulated genes		
Msc	0.24	0.45
Ttr	0.52	0.16
Nkx6.1	0.44	0.56
Shox2	0.43	0.49
Mylk	0.71	0.65
Gata5	0.71	0.67
Tbx5	0.65	0.97
Foxfa1	0.6	0.32