

Table S1. Pair wise comparisons of mRNA and protein levels between experimental and normal muscles

	Mean	Pairs (n)	
Myogenin RNA			
SOL Norm/EDL Norm	5.96	6	*
EDL S-stim 10h/ EDL Norm	0.97	7	n.s
EDL S-stim 5d/ EDL Norm	2.96	7	*
EDL S-stim 14d/ EDL Norm	2.13	6	*
MyoD RNA			
SOL Norm/EDL Norm	0.09	6	*
EDL S-stim 10h/ EDL Norm	1.45	7	n.s
EDL S-stim 5d/ EDL Norm	0.74	7	n.s
EDL S-stim 14d/ EDL Norm	0.49	6	*
Myogenin protein			
SOL Norm/EDL Norm	8.80	6	*
EDL S-stim 10h/ EDL Norm	1.55	10	**
EDL S-stim 14d/ EDL Norm	2.76	7	*
SOL F-stim 14d/ SOL Norm	0.61	6	*
MyoD protein			
SOL Norm/EDL Norm	0.48	7	*
EDL S-stim 10h/ EDL Norm	1.07	10	n.s
EDL S-stim 14d/ EDL Norm	0.51	6	*
SOL F-stim 14d/ SOL Norm	1.37	6	n.s
P-T115 MyoD protein			
SOL Norm/EDL Norm	3.20	11	*
EDL S-stim 10h/ EDL Norm	1.41	10	*
EDL S-stim 14d/ EDL Norm	2.10	7	*
SOL F-stim 14d/ SOL Norm	1.00	6	n.s

Data sets were compared using a Wilcoxon signed rank test. Significant differences
 *, $P < 0.05$; **, $P < 0.01$ between different experimental muscles and normal muscles

Table S2. Fiber type distribution

	I	I/IIa	IIa	IIx	I/IIx
Mouse					
Normal	50	1	49	0	0
Sham	51 ^{n.s}	2 ^{n.s}	47 ^{n.s}	0	0
MyoD	45 ^{n.s}	2 ^{n.s}	50 ^{n.s}	2 ^{n.s}	1 ^{n.s}
MyoD Denerv	36 ^{***}	14 ^{***}	37 ^{**}	5 [*]	8 ^{***}
Denerv	53 ^{n.s}	3 ^{n.s}	43 ^{n.s}	1 ^{n.s}	0
MyoD-T115	15 ^{***}	34 ^{***}	32 ^{***}	9 ^{***}	10 ^{***}
MyoD-S200	45 ^{n.s}	2 ^{n.s}	50 ^{n.s}	2 [*]	1 ^{n.s}
Rat					
Normal	87	1	12	0	0
Sham	85 ^{n.s}	1 ^{n.s}	12 ^{n.s}	2 ^{n.s}	0
MyoD	68 ^{***}	2 ^{n.s}	23 ^{***}	3 ^{***}	4 ^{***}
MyoD Denerv	62 ^{***}	2 ^{n.s}	22 ^{**}	4 ^{***}	10 ^{***}
Denerv	88 ^{n.s}	3 ^{n.s}	8 ^{n.s}	0	1 ^{n.s}
MyoD-T115	38 ^{***}	18 ^{***}	38 ^{***}	0	6 ^{***}

Fiber types are defined by MyHC isoform staining (see methods). Values are given in percent. Significant differences *, P < 0.05; **, P < 0.01; ***, P < 0.001, between experimental fibers (sham, MyoD, MyoD Denerv, denerv and myoD-T115) and normal fibers (Normal).