

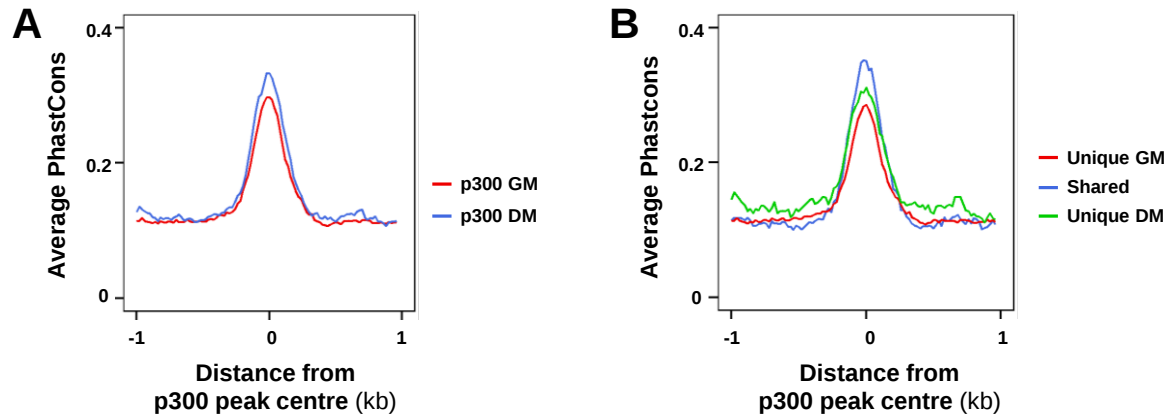


Figure S1. Genomic distribution of p300 in early myogenic differentiation

(A) The average PhastCons conservation scores of p300 peaks in proliferating myoblasts (GM) and myoblast differentiated for 24 hours (DM). (B) The average PhastCons conservation scores of the unique and shared p300 peaks.

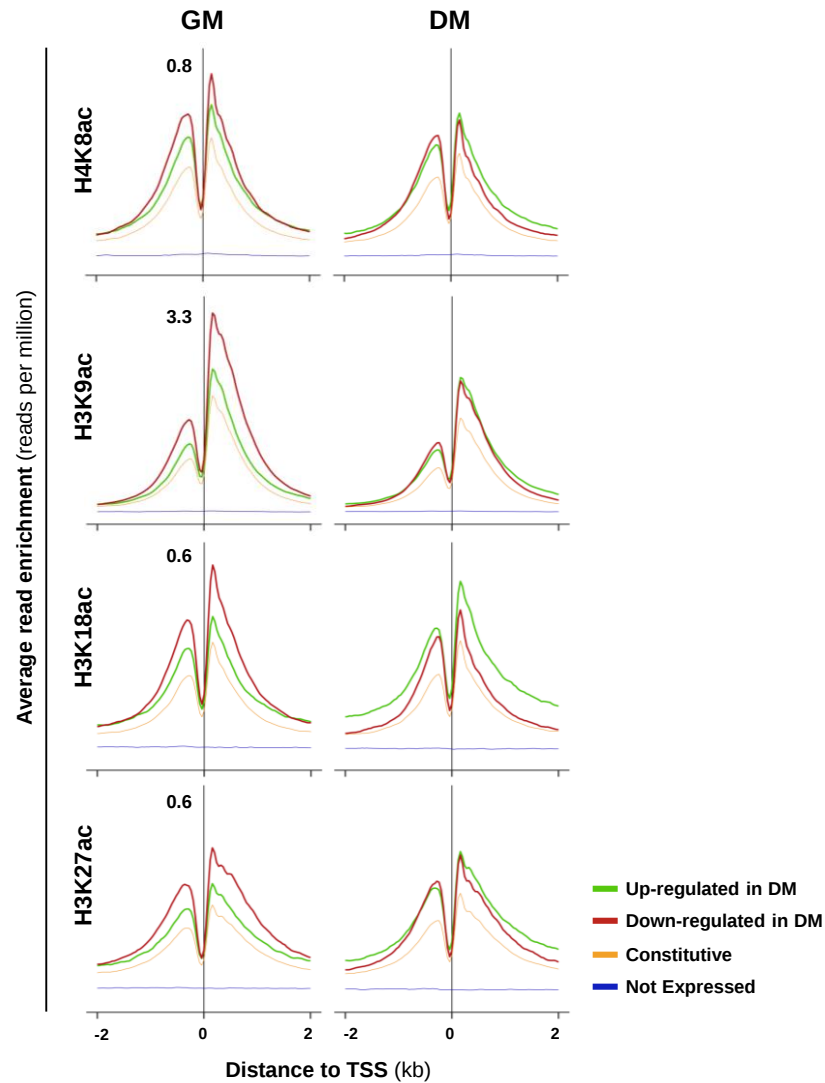


Figure S2. Histone acetylation associated to gene promoters in early myogenic differentiation

The total population of ENSEMBL genes were categorized in four expression groups as determined by RNA-seq expression profiling of proliferating myoblasts (GM) and myoblasts differentiated for 24 hours (DM). Shown are average ChIP-seq enrichment profiles for H4K8ac, H3K9ac, H3K18ac, and H3K27ac spanning 4 kb across the TSS of genes in the four expression groups.

Table S1. ChIP-seq Dataset Access within the NCBI

Organism	Cell line	Condition	Antibody	Data Type	GEO Accession	Reference
mus-musculus	C2C12	Input		ChIP-seq	GSM2947736	This study
mus-musculus	C2C12	Proliferating	p300	ChIP-seq	GSM2947737	This study
mus-musculus	C2C12	Differentiating / 24h	p300	ChIP-seq	GSM2947738	This study

Table S2. Primer Sets Used for RT-qPCR and qChIP Analyses**RT-qPCR Primers**

Gene	Accession #	Forward Primer	Reverse Primer	Reference
<i>Tnnt1</i>	NM_001277903.1	5'-TCCTGCAGCAAGCCTACC-3'	5'-ATCGCACCAATATCCTCACC-3'	44
<i>Igsf3</i>	NM_207205.2	5'-AAGTACAGATCGTTAGCACGGT-3'	5'-GGTGTGACATTCATACTCGCC-3'	45
<i>Asb2</i>	NM_023049.1	5'-TCCTGCAGCAAGCCTACC-3'	5'-ATCGCACCAATATCCTCACC-3'	46

ChIP Primers

Gene	Locus	Forward Primer	Reverse Primer	Reference
<i>Tnnt1</i>	-600 bp	5'-GTGGTGACAACAGGCAGCTA-3'	5'-GTTAGAAAGAGGAGGGGCTGG-3'	This study
<i>Igsf3</i>	+46 kb	5'-GCTCATCTAGGCCACTCAACA-3'	5'-GGACCCCGTCTGATGCAAT-3'	This study
<i>Asb2</i>	-4 kb	5'-ACCCATTTGGCCCTCTTCAG-3'	5'-GGATGCTGTATCTCTGGCCC-3'	This study
Control	Intergenic	5'-ACAGACAACGCAGAGTACCG-3'	5'-GCCCACTCCAGACAAGATAGT-3'	14