

G9a inhibits MEF2C activity to control sarcomere assembly

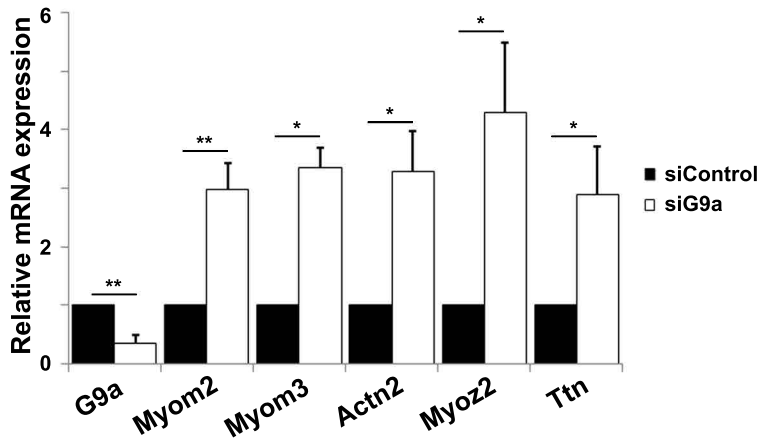
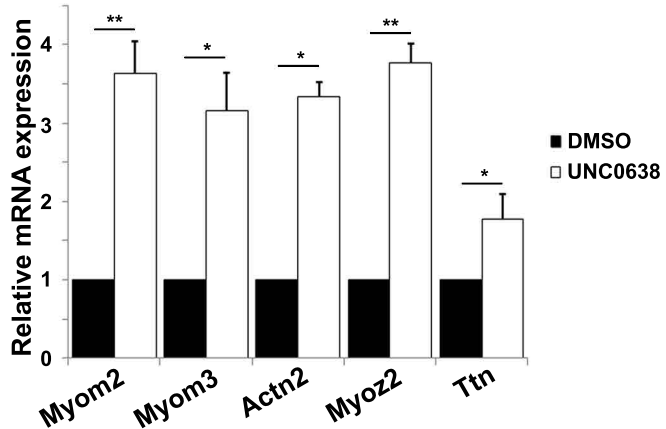
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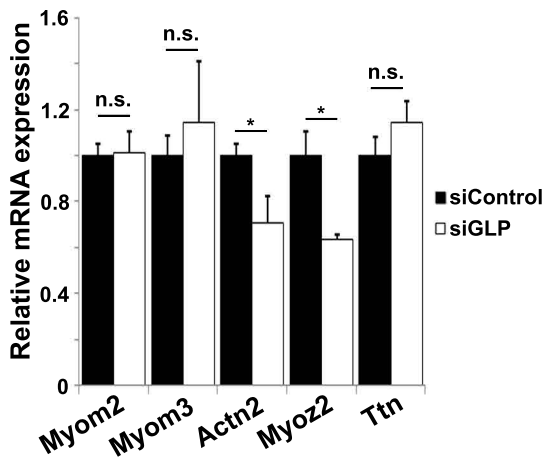
SUPPLEMENTARY INFORMATION

Supplementary Figure S1

Supplementary Figure S2

Supplementary Figure Legends

a**b**



Supplementary Figure Legends

Supplementary Figure 1. G9a represses sarcomeric genes in primary myoblasts in a methyltransferase-dependent manner. **(a)** Primary mouse myoblasts transfected with scrambled siRNA (siControl) or G9a-specific siRNA (siG9a) lysates were analyzed for expression of G9a, Myom2, Myom3, Actn2, Myoz2 and Ttn by qPCR. Error bars indicate mean \pm standard error. **(b)** Primary mouse myoblasts were treated with DMSO or UNC0638 for 48 hr in growth medium. Expression of sarcomeric genes in the absence and presence of UNC0638 treatment was examined by qPCR. Error bars indicate mean \pm standard deviation; results are representative of two independent experiments. * p -value < 0.05; ** p -value < 0.01

Supplementary Figure 2. GLP does not regulate sarcomeric genes in myoblasts. C2C12 myoblasts transfected with scrambled siRNA (siControl) or GLP-specific siRNA (siGLP) were analyzed for GLP expression by western blot. β -actin was analyzed as a loading control. The mRNA expression of Myom2, Myom3, Actn2, Myoz2 and Ttn was analyzed by qPCR. Error bars indicate mean \pm standard deviation; results are representative of two independent experiments. n.s. indicates no significance; * p -value < 0.05