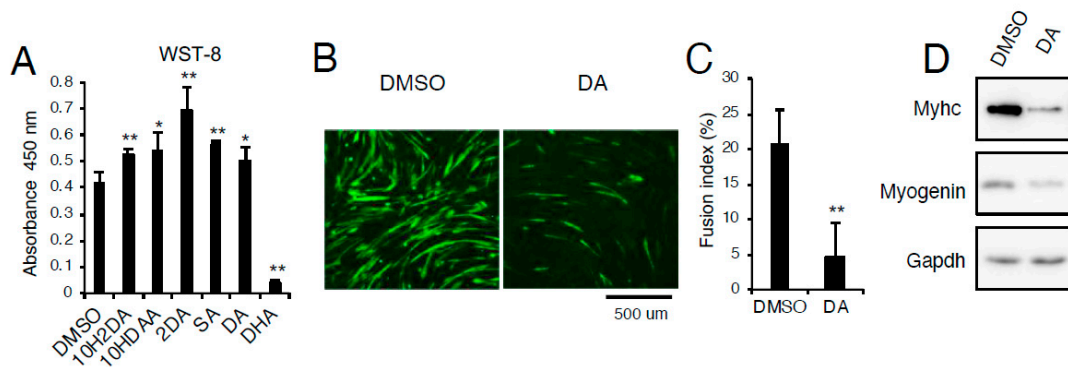


Supplemental Figure S1. mRNA levels of myosin heavy chains *in vivo*. (A - C) qPCR analysis of mRNA levels of *myosin heavy chain 2 (Myhc2)* (A), *myosin heavy chain 4 (Myhc4)* (B), *myosin heavy chain 7 (myhc7)* (C) in sham or denervated muscle with or without 1% pRJ. Data are mean \pm SD ($n = 7$).



Supplemental Figure S2. Decanoic acid promotes the proliferation in C2C12 cells

(A) C2C12 cells were treated with 500 μ M 10H2DA, 10HDAA, 2DA, SA, decanoic acid (DA) or docosahexaenoic acid (DHA) for 72 hours after which the number of living cells were assessed using a Cell Counting kit-8. (B - D) Cells were treated with myogenic medium supplemented with or without 500 μ M DA for 6 days. Cells were then stained with anti-myosin heavy chain antibody (B). Fusion index were quantified as the number of nuclei within myotubes divided by the total number of nuclei (C). Western blotting showing protein levels of myosin heavy chain (Myhc), Myogenin, or Gapdh determined (D). Representative images are shown. Scale = 100 μ m (B and D). Data are mean \pm SD ($n = 4$). ** $P < 0.01$, * $P < 0.05$, versus DMSO treatment.