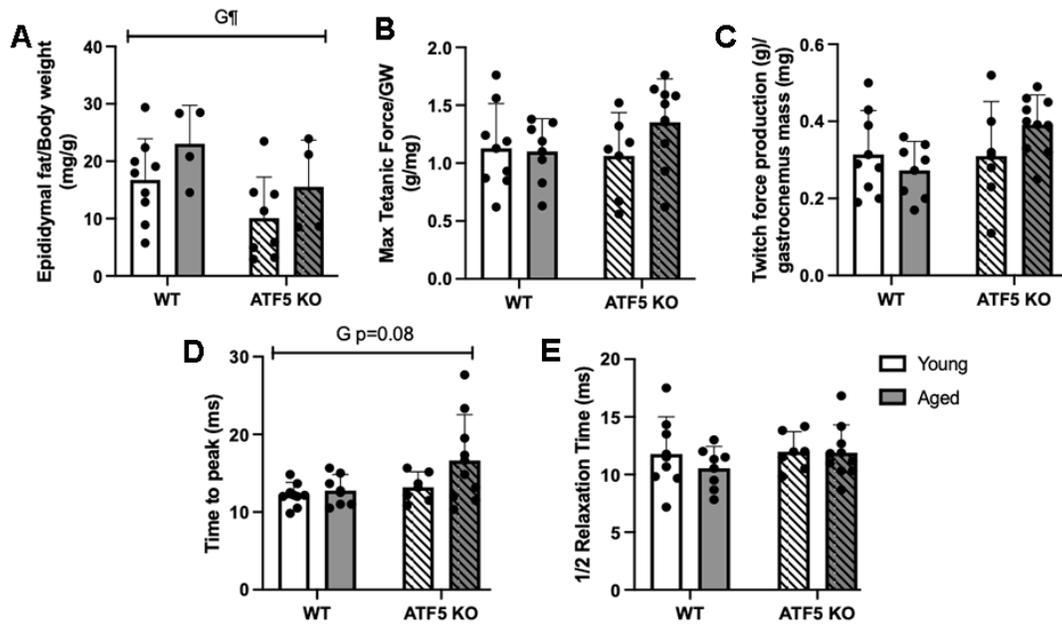
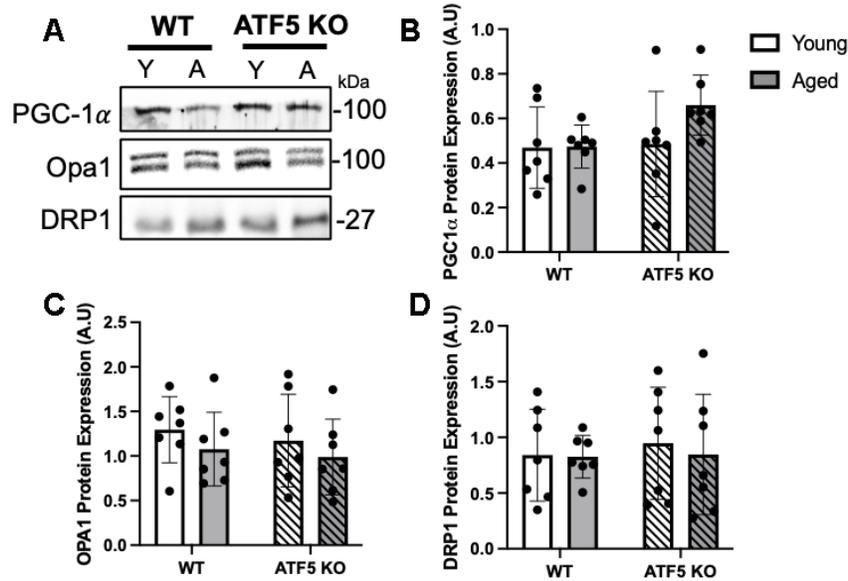


**SUPPLEMENTARY FIGURES**



**Supplementary Figure 1. Body and muscle phenotypic differences in ATF5 KO mice relative to controls.** (A) Epididymal fat mass normalized to bodyweight (mg/g) in WT and ATF5 KO mice in both age groups. (B) maximal force production during an initial single tetanic contraction measured in g of tension, normalized to gastrocnemius weight (mg). (C) average force production of three initial twitch contractions measured in g of tension, normalized to gastrocnemius mass (mg). (D) time to max twitch force production (peak) measured in ms determined by the average of 3 initial twitch contractions. (E) half relaxation time, averaged from three initial twitch contractions, measured in ms (n=4-9). G p < 0.05, main effect of genotype, Two-way ANOVA. Y, Young; A, Aged. Data are means ± SD.



**Supplementary Figure 2. Changes in whole-muscle PGC-1α, mitochondrial fusion and fission proteins.** (A) Immunoblots of PGC-1α, Opa1, and DRP1, corrected to Ponceau, with respective quantifications (B-D). N=4-7/group. Y, Young; A, Aged. Data are means ± SD.