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| **Data S1.** Supporting Information. |
| **Table S1.** Primers used for quantitative Real-Time Polymerase Chain Reaction. |
| **Table S2.** All antibodies used in immunoblot analysis. |
| **Figure S1.** (A) TD-NMRI analysis revealed that there are no significant differences in body weight, fat and muscle mass between aged adult Ahnak1-KO and WT littermates of both sexes at basal level (*n* = 10–11 mice/group). (B) Heart (left panels) and TA muscles (right panels) of aged adult Ahnak1-KO and WT mice of both sexes were isolated, weighed and correlated to body mass. Heart and TA masses were similar among all groups (*n* = 10–11 mice/group). |
| **Figure S2.** Expression of mitochondrial fusion and fission markers in the LV of aged adult male and female Ahnak1-KO and WT mice. (A-E) Real-time quantitative PCR was used to determine expression levels of fusion and fission markers *Opa1* (A), *Mfn1* (B), *Mfn2* (C), *Drp1* (D) and *Fis1* (E), respectively, in the LV tissues of aged adult WT and Ahnak1-KO mice. mRNA content of target genes was normalized to the geometric mean of *Hprt* and *Gapdh*. All data are expressed as means ± SEM, two-way ANOVA followed by Bonferroni post hoc test. (*n* = 7–8 hearts/group). |