

Supplemental Figure S1. Generation and characterization of mice with liver-specific Them1 expression. (A) Schematic diagram of the transgenic DNA construct for Them1, as well as the configuration following cremediated recombination. The locations of PCR primers used to confirm recombination are indicated. To confirm genotypes, transgene expression and activity, mice were fed a chow diet and sacrificed at age 18 w. Analyses included (B) PCR using genomic DNA from Mice (n = 2/group) not expressing (-) and expressing (+) cre recombinase to confirm liver specific recombination. (C) Relative mRNA expression of Them1 in chow and high fat fed animals (n = 4/group). (D) Immunoblot analysis of liver cytosol from chow fed (top) and high fat fed (bottom) with GAPDH to control for unequal loading, and (E) ACOT activity in liver homogenates (n = 4/group) using myristoyl-CoA as the exogenous substrate. (F) Relative mRNA expression of Acot isoforms in mice fed chow (C) or a high fat (H) diets for 14 w and studied at age 18 w (n = 4/group). \*P < 0.05