



**Supplementary Fig. 3.** DWN12088 regulates mRNA expression of lipid synthesis marker genes. (A) Alpha mouse liver 12 (AML12) cells were treated with 10  $\mu$ M DWN12088 (DWN) for 2 hours, followed by stimulation with 250  $\mu$ M palmitic acid (PA) for 24 hours. mRNA levels of lipid synthesis-related genes were measured using real-time quantitative reverse transcription polymerase chain reaction (qRT-PCR) ( $n=4$ ). Chow- or methionine-choline deficient (MCD)-diet mice administrated with or without DWN12088 (10 mg/kg, every 2 days apart) for 6 weeks. (B) Relative mRNA expressions of sterol regulatory element-binding protein-1c (*Srebp-1c*), fatty acid synthase (*Fas*), adipophilin (*Adrp*), peroxisome proliferator-activated receptor  $\alpha$  (*Ppara*), peroxisome proliferator-activated receptor gamma coactivator 1 $\alpha$  (*Pgc1a*), and carnitine palmitoyltransferase 1 $\alpha$  (*Cpt1a*) were measured by qRT-PCR in liver tissues ( $n=10$  mice per group). Statistical significance was calculated using one-way analysis of variance (ANOVA) (A) and two-way ANOVA (B) followed by the Holm-Sidak *post hoc* test. All data are presented as the mean  $\pm$  standard deviation. ns, not statistically significant. <sup>a</sup> $P<0.05$ , <sup>b</sup> $P<0.01$ , <sup>c</sup> $P<0.001$ .