

SUPPLEMENTARY FIGURE

Supplementary Figure 1. Metabolic characteristics of male transgenic mice with 9- fold overexpression of *Dgat2* mRNA. (A) QPCR analysis of *Dgat2* mRNA levels in the jejunum of line with 9- fold overexpression of *Dgat2* mRNA levels (*Dgat2*^{IntB}) compared to WT mice. (B) Intestinal TG secretion measured in *Dgat2*^{IntB} and WT male mice on a chow diet. Mice were injected with 500 mg/kg Tyloxapol into the IP cavity to block lipase activity in circulation. After 30 minutes, mice were given 200 μ l olive oil via oral gavage. Plasma TG concentration was measured before, 2 and 4 h post gavage. Data are represented as mean \pm SEM. Asterisks denote significant difference at time points compared to WT (*T-test*), $P < 0.05$, n= 9-10 mice. (C) Representative CARS image of TG storage in enterocytes representing the upper jejunum (S2) of *Dgat2*^{IntB} and WT mice fed a HF diet for 9 wks, after 2 h food removal. (D) TG concentration in jejunum (S2 and S3) of 9 wks HF-fed *Dgat2*^{IntB} and WT mice and liver of chow and 9 wks HF-fed *Dgat2*^{IntB} and WT mice after 2 h food removal. Data are represented as mean \pm SEM. Asterisks denote significant difference compared to WT (*T-test*), $P < 0.05$, n= 5-6 mice.