**Qr code

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**Figure 1 Supplemental**

(A) Average daily food intake of WT and GDF15 KO after 22 weeks on a HFD, measured over a period of 2 weeks.

(B) Energy expenditure against body weight of mice. P values calculated using ANCOVA with average EE over 48 hours as the dependent variable, average body weight over 48 hours as a covariate and genotype as a fixed factor.

(C) Representative images of haematoxylin/eosin stained liver sections from WT and GDF15KO mice after 25 weeks HFD feeding.

A picture containing graphical user interface

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**Figure 3 Supplemental**

GDF15 mRNA expression and GDF15 secretion from WT and LysM-GDF15KO bone-marrow derived macrophages (BMDM).

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**Figure 4 Supplemental**

(A) GDF15, EMR1 and Plin1 mRNA expression from 24 week old high fat diet (HFD) fed wild type (WT) and BMT-GDF15KO mouse epididymal adipose tissue fractionated into adipocytes and CD11b positive (+) stromal vascular fraction (SVF) (n=4).

(B) Human serum GDF15 levels show limited association with GDF15 gene expression levels in adipose tissue. Each point represents data from an individual. GDF15 serum levels were adjusted for age and BMI; plotted GDF15 gene expression residuals were adjusted for age, BMI and RNA-Seq technical covariates

A screenshot of a computer

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**Figure 5 Supplemental**

(A) Average daily food intake of WT and Alb-GDF15KO on a HFD measured over a period of 2 weeks.

(B) Energy expenditure against body weight of mice. P values calculated using ANCOVA with average EE over 48 hours as the dependent variable, average body weight over 48 hours as a covariate and genotype as a fixed factor.

(C) Representative images of haematoxylin/eosin stained liver sections from WT and Alb-GDF15KO mice after 24 weeks of HFD feeding

(D) Hepatic mRNA expression of genes involved in lipid metabolism (n=13,11).

**Graphical user interface

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**Figure 6 Supplemental**

(A) Average daily food intake of WT, FGF21 KO, GDF15 KO and dKO after 22 weeks on a HFD measured over a period of 2 weeks

(B) Energy expenditure against body weight of mice. P values calculated using ANCOVA with average EE over 48 hours as the dependent variable, average body weight over 48 hours as a covariate and genotype as a fixed factor.

(C) Representative images of haematoxylin/eosin stained liver sections from WT, FGF21 KO, GDF15 KO and dKO mice after 25 weeks HFD feeding.

(D) Plasma cholesterol, alanine transaminase (ALT), aspartate transaminase (AST) and leptin from random fed mice, after 24 weeks of HFD-feeding (n=8).