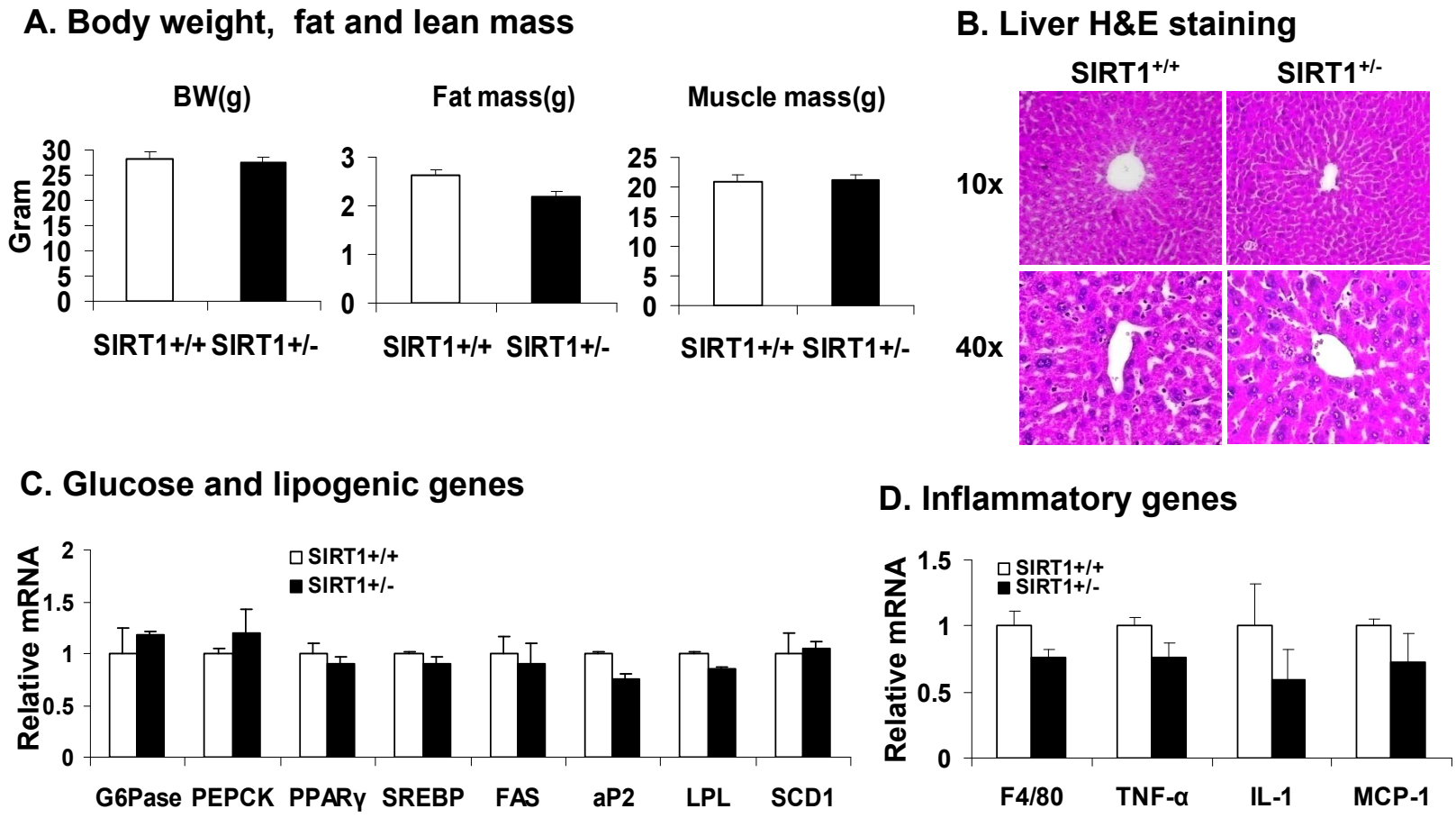
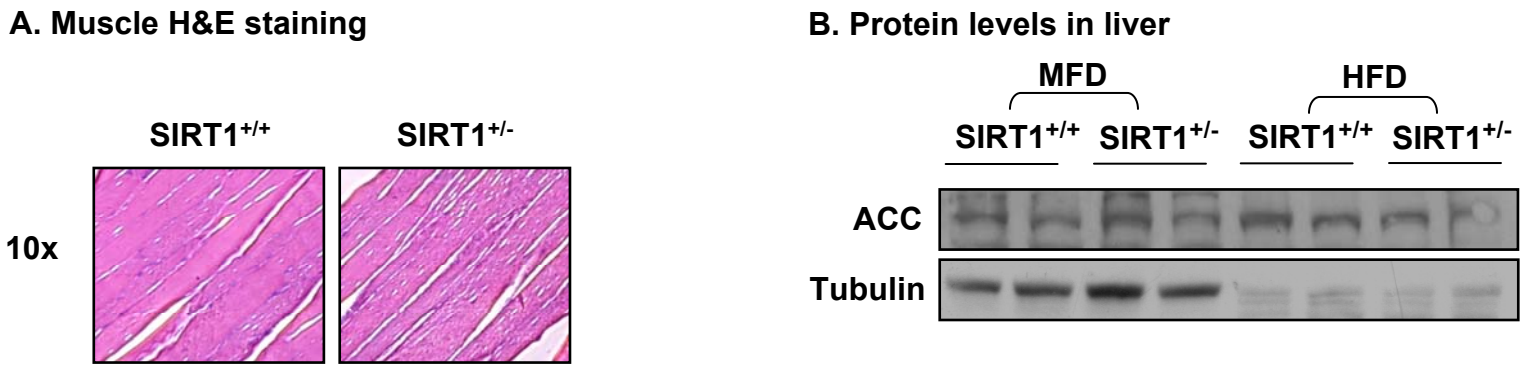
Suppl. 1 (XU) SIRT1$^{+/-}$ transgenic mice have no hepatic steatosis on low-fat chow diet



Suppl. 1 SIRT1+/- transgenic mice had no hepatic steatosis on LFD. A. Body weight and body composition at 24 weeks on the low fat diet. **B**. Hematoxylin and eosin staining of liver. Liver was collected at 24 weeks of age on the low fat diet. The tissue was stained in H&E and pictures were taken using a microscopy with 10x or 40x object lenses, respectively. **C**. Expression of gluconeogenic and lipogenic genes in liver. mRNA was determined using qRT-PCR and normalized with 18S ribosome RNA. The fold change in mRNA is presented. **D**. Inflammatory genes. In the bar figures, values are presented as the means ± SE (n=7).

Suppl. 2 (XU) Lipid in skeletal muscle, NF-kB activity and ACC expression in liver



Suppl. 2 A. H&E staining in muscle. Gastrocnemius muscle was examined for fat content in mice at 28 weeks of age on MFD. **B**. Protein levels in liver. Liver tissue lysate was made from mice on MEF or HFD. The lysate was examined in a Western blot for the protein signals.

Suppl. 3 Primer sequence for qRT-PCR detection of liver genes in VLDL-TG production

Apob: forward, 5'-GCCCATTGTGGACAAGTTGATC-3‘, reverse, 5'-CCAGGACTTGGAGGTCTTGGA-3'

Apobec-1: forward,5'- TCGTCCGAACACCAGATGCT-3', reverse,5'- GGTGTCGGCTCAGAAACTCTGT-3'

Apoe: forward,5'- CCTGAACCGCTTCTGGGATT-3', reverse,5'-GCTCTTCCTGGACCTGGTCA-3'

Dgat-1: forward,5'-GGTGCCGTGACAGAGCAGAT-3', reverse,5'-CAGTAAGGCCACAGCTGCTG-3'

Mttp: forward, 5'-CAAGCTCACGTACTCCACTGAAG-3', reverse,5'-TCATCATCACCATCAGGATTCCT-3‘

Reference:

Wiegman CH, Bandsma RH, Ouwens M, van der Sluijs FH, Havinga R, Boer T, Reijngoud DJ, Romijn JA, Kuipers F.Hepatic VLDL production in ob/ob mice is not stimulated by massive de novo lipogenesis but is less sensitive to the suppressive effects of insulin. Diabetes 52(5):1081-9, 2003.