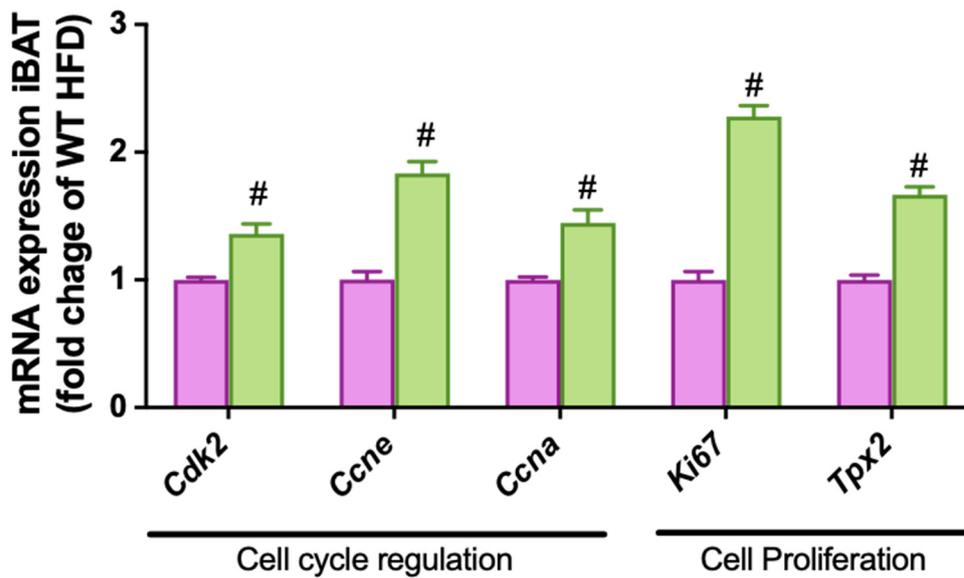
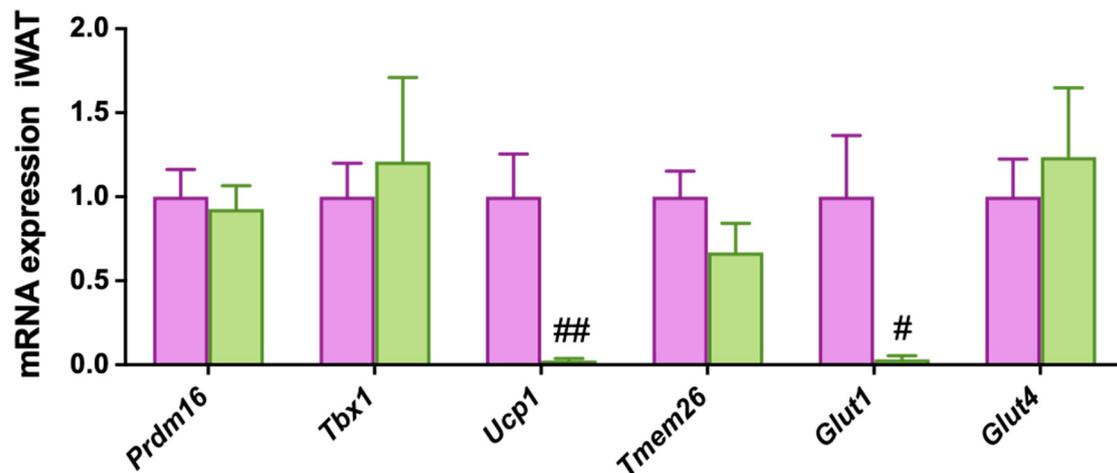


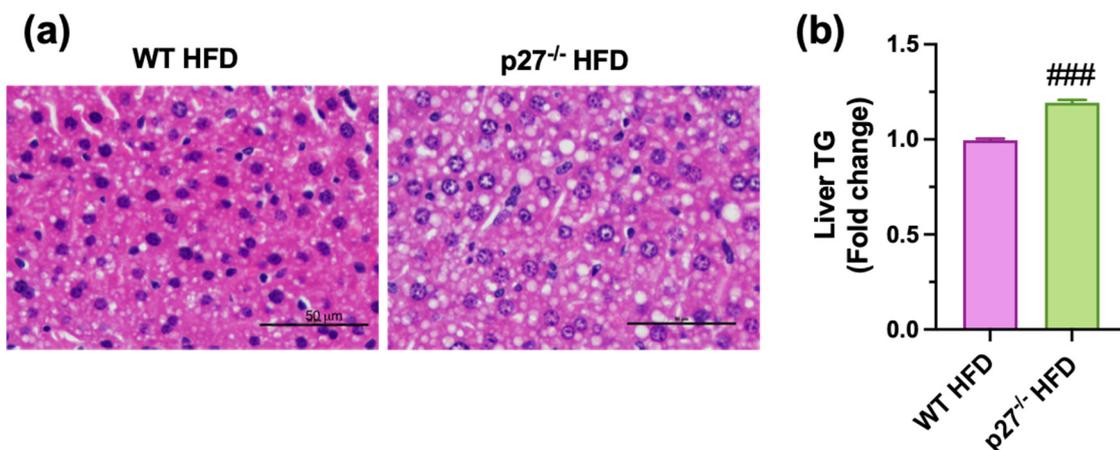
Supplemental Figure S1. Daily food intake in WT and p27^{-/-} mice fed with NCD or HFD for 10 weeks. Legend above subfigures shows the result of the two-way ANOVA analysis; ns: non significant. Data are presented as mean \pm SEM (n=4-7).



Supplemental Figure S2. mRNA expression analysis of genes involved in cell cycle regulation and in cell proliferation in iBAT of WT and p27^{-/-} male mice fed with HFD for 10 weeks. Data are expressed as mean \pm SEM (n=3-7). *p<0.05 vs. WT HFD.



Supplemental Figure S3. iWAT of *p27*^{-/-} HFD mice have increased adipocyte size and decreased expression of *Ucp1* and *Glut1*. (a-b) Representative histological images (a) and adipocyte area quantification (b) of the iWAT of WT and *p27*^{-/-} mice fed with HFD for 10 weeks. (c) mRNA expression levels of relevant genes for adipose tissue browning and glucose uptake in WT and *p27*^{-/-} mice fed with HFD for 10 weeks. Data are expressed as mean ± SEM (n=5-9). #p<0.05, ##p<0.01, ###p<0.001 vs. WT HFD.



Supplemental Figure S4. Representative histological images (a) and hepatic triglyceride content (b) of the liver of WT and *p27*^{-/-} mice fed with HFD for 10 weeks. Bar = 50 μm. ###p<0.001 vs. WT HFD. (n=7-9)