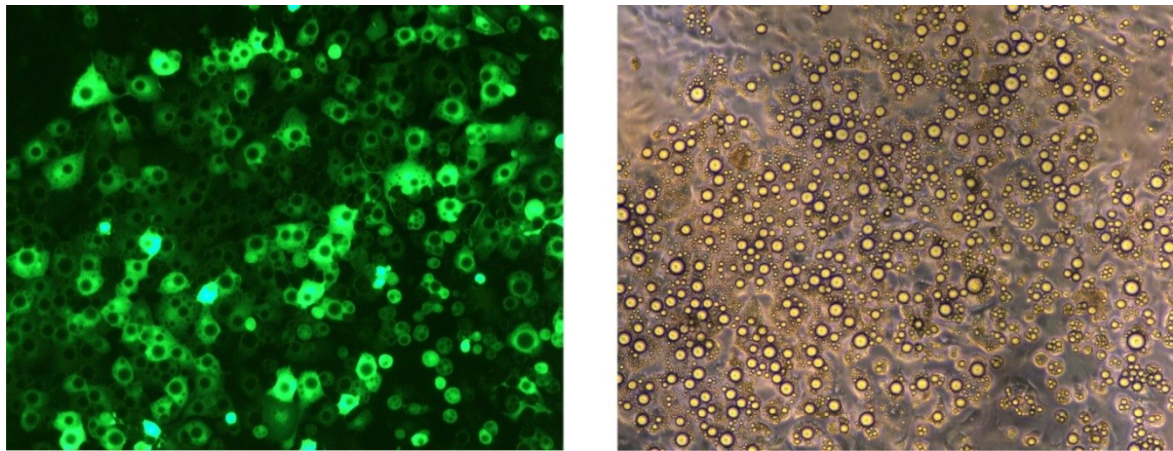
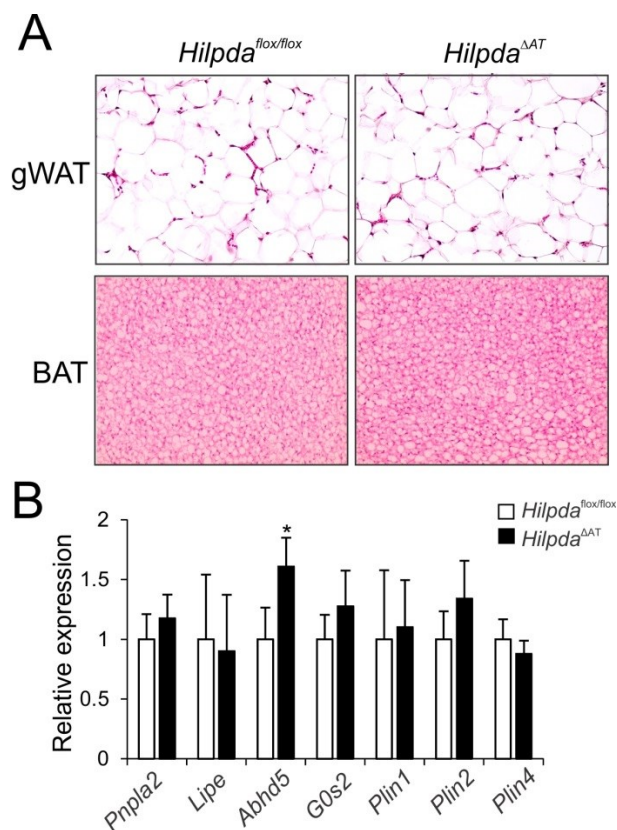


Supplemental Information

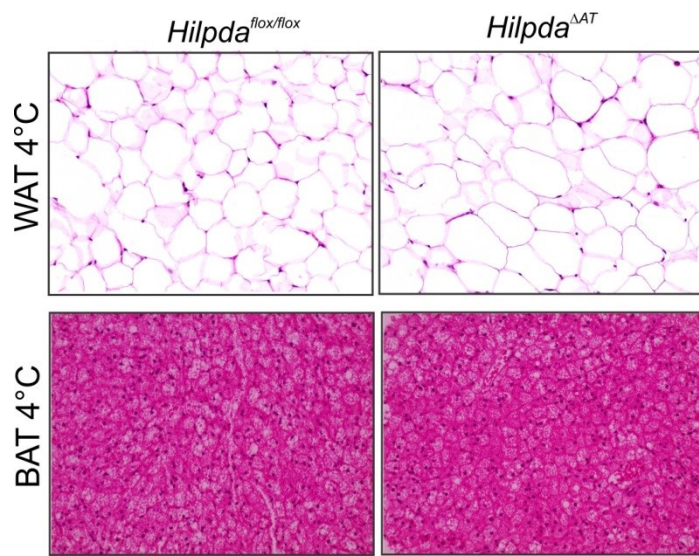
Supplemental Figures



Supplemental Figure 1. Fluorescence microscopy (left) and light (phase-contrast) microscopy of differentiated 3T3-L1 adipocytes (day 9) transduced with AV-*Gfp*.



Supplemental Figure 2. (A) Representative H&E stainings of epididymal WAT and BAT of male *Hilpda*^{flx/flx} (n=6) and *Hilpda*^{ΔAT} (n=8) fasted for 24h. (B) mRNA levels of genes involved in lipolysis or lipid droplet morphology (*Pnpla2*, *Lipe*, *Abhd5*, *G0s2*, *Plin1*, *Plin2*, *Plin4*) BAT of *Hilpda*^{flx/flx} (n=6) and *Hilpda*^{ΔAT} (n=8) mice fasted for 24h. Gene expression levels for *Hilpda*^{flx/flx} mice were set at 1 for each gene. Data are mean ± SEM. Asterisks indicate significantly different according to Student's t-test.



Supplemental Figure 3. Representative H&E stainings of epididymal WAT and BAT of *Hilpda*^{flox/flox} and *Hilpda*^{ΔAT} mice exposed to 4°C or 28°C for 10 days.