

Supplemental Information

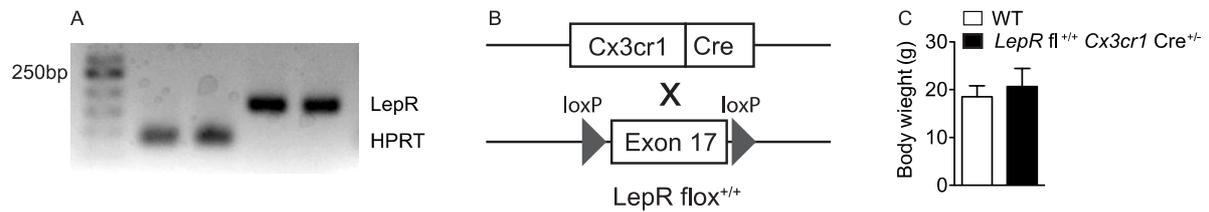


Figure S1. Leptin receptor expression in microglia and generation of animal model.

The expression of leptin receptor in microglia was examined by RT-PCR in primarily cultured microglia from neonatal mouse brain. The PCR products are shown on the gel (A). The Cre-loxP strategy to generate the mouse model is shown as (B). Body weight of female *LepR* fl^{+/+} *Cx3cr1* Cre^{+/-} mice did not differ from WT littermates at 10wk age (C). Data are presented by Mean \pm SEM.

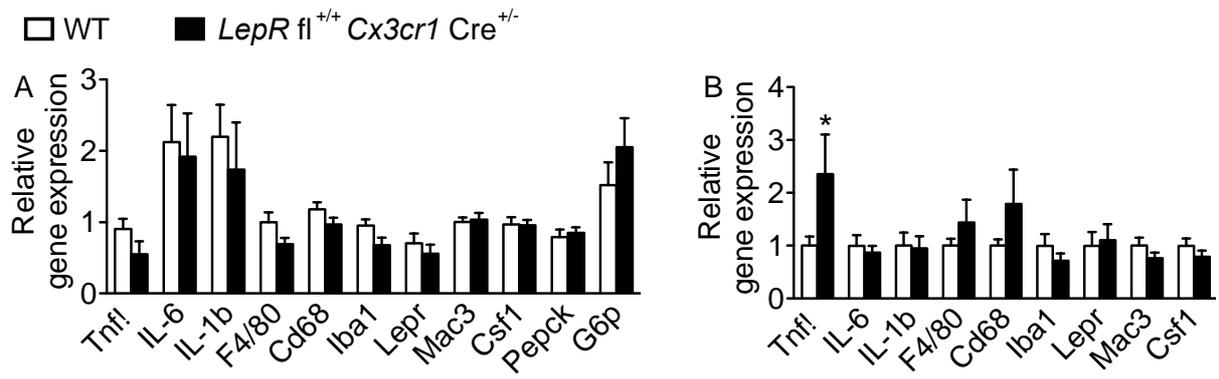


Figure S2. Gene expression of liver (A) and adipose tissue (B) of *LepR^{fl^{+/+}}* *Cx3cr1^{Cre^{+/-}}* male mice. Data are presented by Mean \pm SEM; * $p < 0.05$

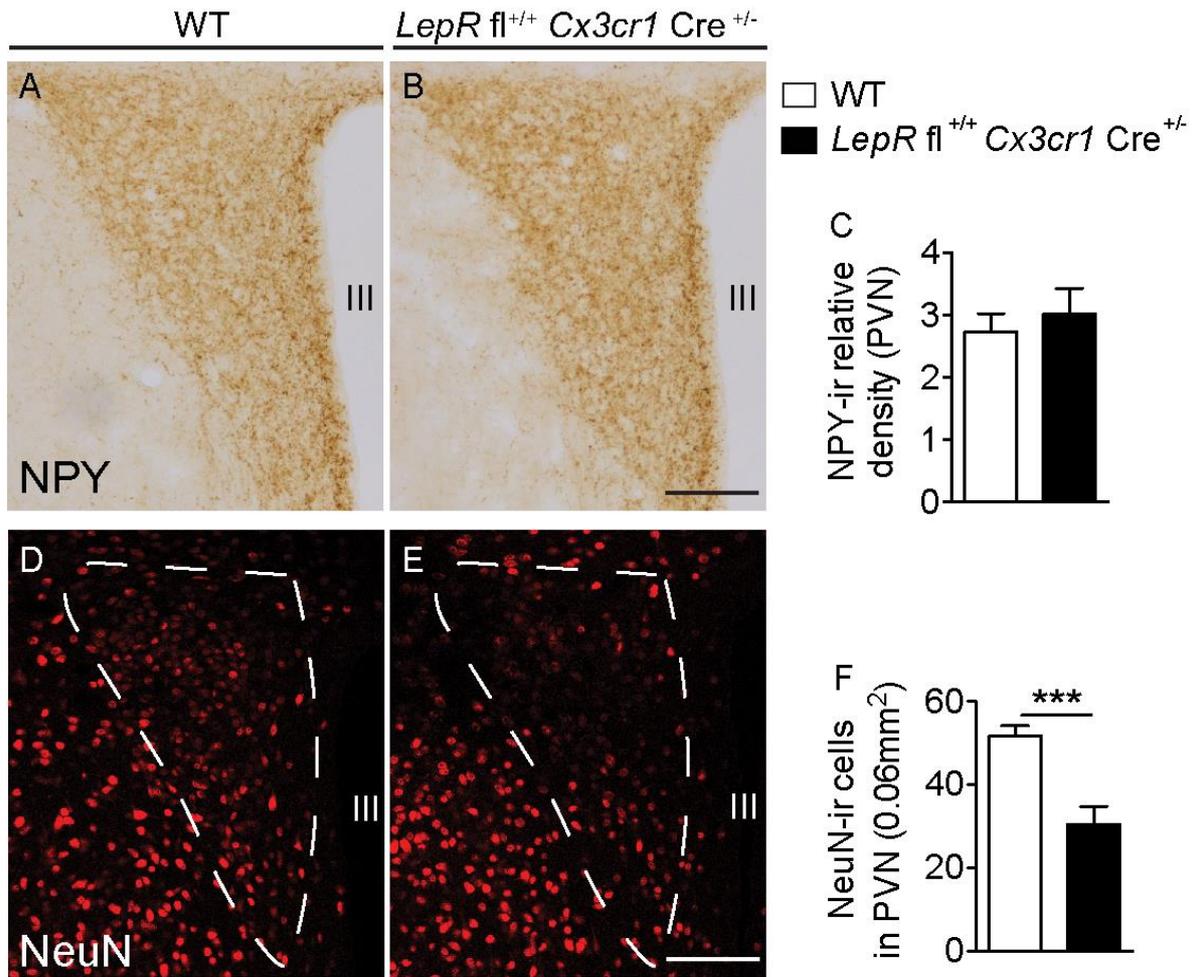


Figure S3. NPY and NeuN immunoreactivity in the PVN of *LepR fl^{+/+} Cx3cr1 Cre^{+/-}* male mice. Neuropeptide Y (NPY) immunoreactivity (-ir) is not differed between *LepR fl^{+/+} Cx3cr1 Cre^{+/-}* and WT (A-C). NeuN-ir positive cell number is decreased in the PVN (framed by white dashed line) of *LepR fl^{+/+} Cx3cr1 Cre^{+/-}* male mice (D-F). Data are presented by Mean \pm SEM; *** $p < 0.001$. Scale bar: 100 μ m. III: Third ventricle.