Supplemental Figure 1. Comparison of transgene effect on body weights of 3 month old lean mice. **a**, Males and **b**, Females. Values are means \pm S.D., $n \ge 5$. *, P < 0.05, when compared to +/+.

Supplemental Figure 2. Transgene expression in the hindbrain. *In situ* hybridization of LEPR-B mRNA in 25 μM hypothalamic brain sections including Area Postrema (AP) and the Nucleus Tractus Solitarius (NTS). *In situ* hybridization autoradiographic images are represented in panels **a** and **b**. Genotypes are indicated. Panels **a** represents *Nse+Syn db/db* mice and panel **b** represents *Syn db/db* mice. There only appears to be expression in the AP of *Nse+Syn db/db* mice. There is also increased expression in the NTS in the *Nse+Syn db/db* brain compared to *Syn db/db*. Magnification 15x. Red arrowhead indicates AP, black arrowhead indicates NTS.

Figure S1

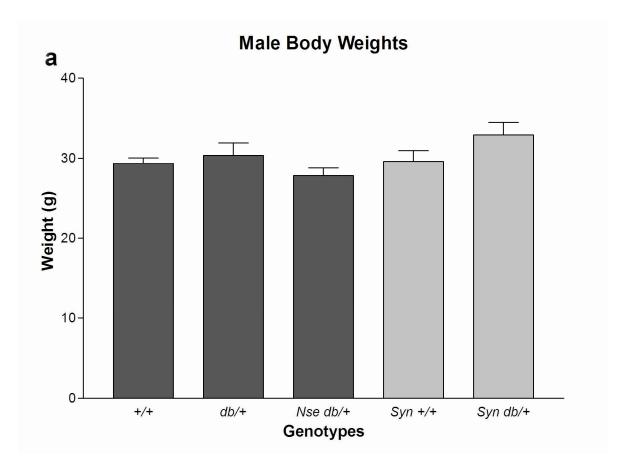


Figure S1b

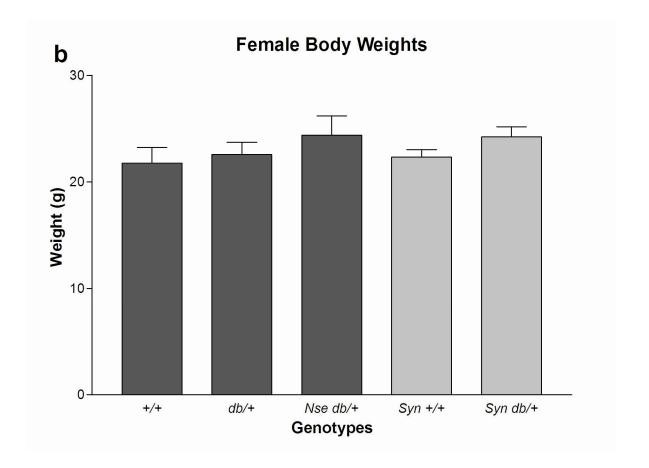


Figure S2

