



Figure S1. The phenotypic characterization of mice (related to Figure 1). A) Adiposity phenotypes of AxB8 mice (n=15 at 17°C, n=15 at 29°C). B) Correlation coefficient analysis between BW and FM and BW and adiposity index (FM/LM) as determined by NMR in 112D AxB8 mice. C) Diet-induced obesity phenotype determined by glucose tolerance test (GTT) and plasma parameters in 112D AxB8 mice (n=7/group). D) Weekly food intake of adult B6 and AxB8 mice presented as a value of kcal/g/week. E) Food intake (g/week) and (F) body weight of lactating B6 (n= 17 at 17 °C, n=13 at 29 °C) and AxB8 females (n=8 at 17 °C, n=12 at 29 °C). G) Total energy expenditure and metabolic efficiency in 10D AxB8 mice (8 pups/ litter). Data are mean ± SD. * p<0.05; ** p<0.01; *** p<0.001.