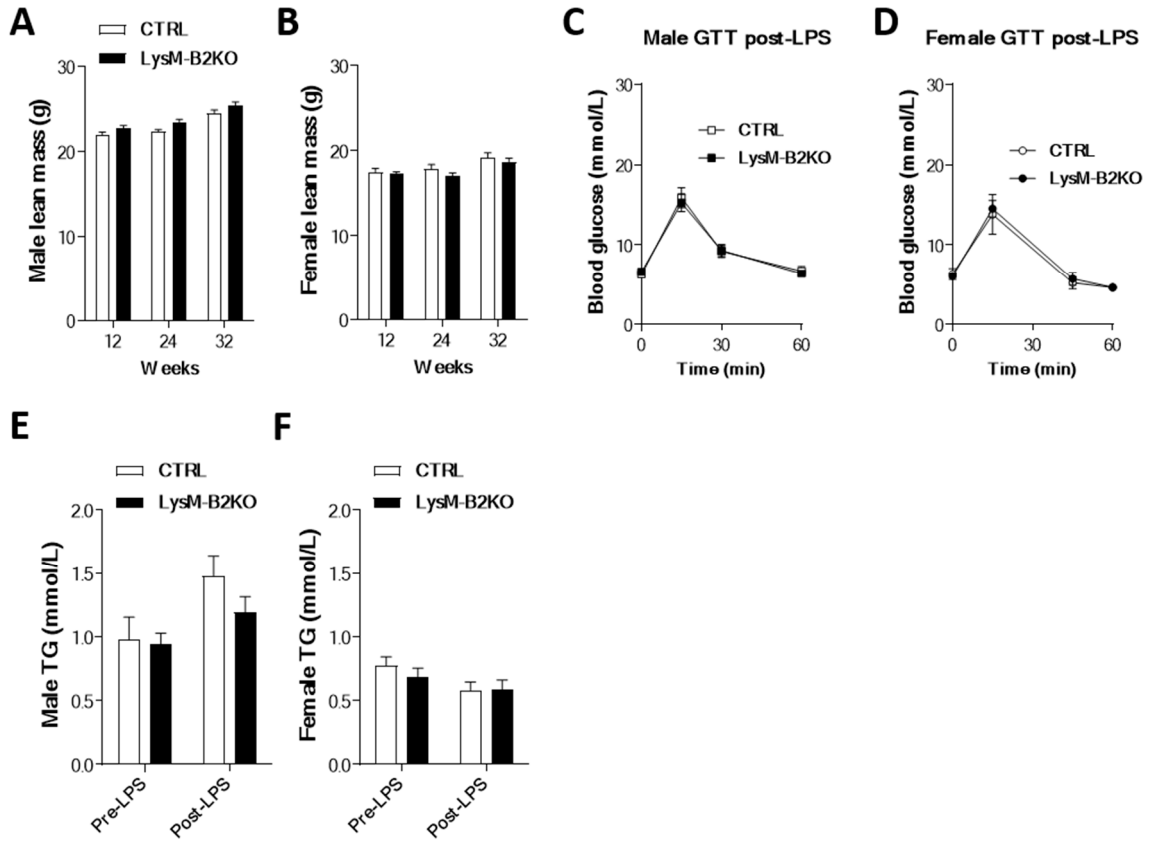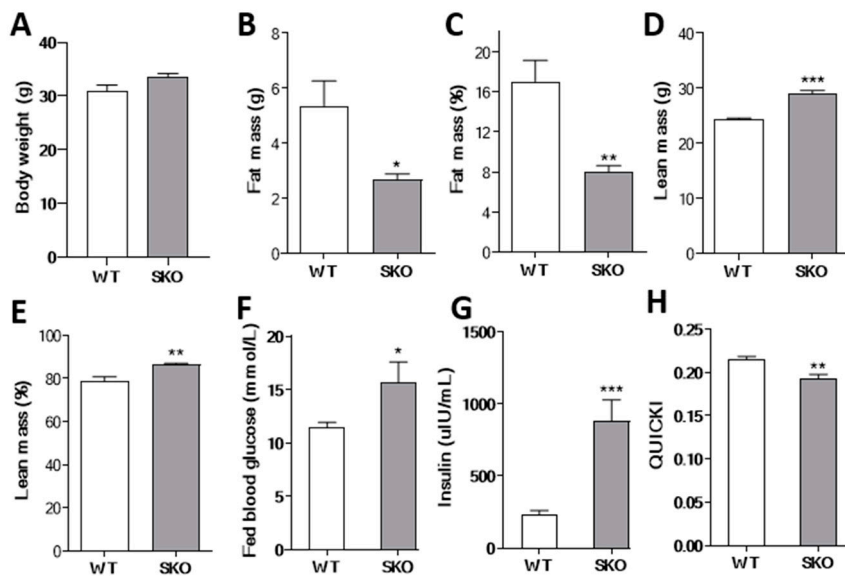**Supplementary Materials:**

Figure S1. (**A–B**) Lean mass of male and female LysM-B2KO mice normalized to body weight (female n=5–7, male n=7–10). (**C–D**) Glucose tolerance of LysM-B2KO mice at 32 weeks of age 3 hours following intraperitoneally injection of 1mg/kg LPS. (**E–F**) Analysis of serum triglycerides in LysM-B2KO mice fasted for 5 hours and subjected to LPS treatment. Data are represented as mean ± SEM, p<0.05.

Figure S2. (**A–E**) Body composition of SKO mice. Body weight (**A**), fat mass (**B–C**) and lean mass (**D–E**) of male SKO mice at 16 weeks of age (*n*=5). (**F–H**) Serum analysis of SKO mice. Random fed blood

glucose levels (**F**), insulin (**G**) and quantitative insulin sensitivity check index (QUICKI) (**H**) analysis in SKO mice fasted for 5 hours. Data are represented as mean ± SEM, *$p<0.05$, **$p<0.01$, ***$p<0.001$.

Table S1. Table showing sequences or supplier details of qPCR primers used in this study.

Primer	Sequence
NoNo F	GCCAGAATGAAGGCTTGACTAT
NoNo R	TATCAGGGGGAAGATTGCCCA
YWhaz F	GAAAAGTTCTTGATCCCCAATGC
YWhaz R	TGTGACTGGTCCACAATTCCTT
HPRT F	GTTAAGCAGTACAGCCCCAAA
HPRT R	AGGGCATATCCAACAACAAACTT
IL10 F	GCTCTTACTGACTGGCATGAG
IL10 R	CGCAGCTCTAGGAGCATGTG
TNFα F	CCCTCACACTCAGATCATCTTCT
TNFα R	GCTACGACGTGGGCTACAG
IL6 F	TAGTCCTTCCTACCCCAATTTCC
IL6 R	TTGGTCCTTAGCCACTCCTTC
IL1α F	GCACCTTACACCTACCAGAGT
IL1α R	AAACTTCTGCCTGACGAGCTT
IL1β F	GCAACTGTTCCTGAACTCAACT
IL1β R	ATCTTTTGGGGTCCGTCAACT
iNOS F	GGAGTGACGGCAAACATGACT
iNOS R	TAGCCAGCGTACCGGATGA
MCP1 F	TTAAAAACCTGGATCGGAACCAA
MCP1 R	GCATTAGCTTCAGATTTACGGGT
Bscl2 (TaqMan™ probes)	ThermoFisher assay ID #Mm01230976_m1
18s (TaqMan™ probes)	ThermoFisher assay ID #Mm03928990_g1