

## Online supporting material:

**Supplemental Table 4:** Food consumption, activity, fecal fat, basal metabolic rate and body composition analyses in *Tis7<sup>-/-</sup>* or wild type mice measured after 8 wk on high saturated fat diet (experiment 1)<sup>1</sup>.

	WT	<i>Tis7<sup>-/-</sup></i>
Food, g/d	2.31±0.27	2.37±0.47
Activity, %	59.45±19.93	49.67±18.05
Fecal fat, %	5.36±0.01	5.38±0.01
VO <sub>2</sub> , mL·g <sup>-1</sup> ·h <sup>-1</sup>	6.73±0.32	6.93±0.21
VCO <sub>2</sub> , mL·g <sup>-1</sup> ·h <sup>-1</sup>	5.69±0.42	5.66±0.07
RER <sup>2</sup>	0.85±0.04	0.82±0.02
Fat mass, g	11.83±0.67	4.85±0.31*
Lean mass, g	21.66±0.59	22.85±0.86

<sup>1</sup>For all experiments, n = 5 WT and n = 5 *Tis7<sup>-/-</sup>* mice, and data are expressed as means ±SEM.

\**P*<0.0001 *Tis7<sup>-/-</sup>* mice are different from control (WT).

<sup>2</sup>RER, respiratory exchange ratio .