

Table S7 Phenotypic differences in *Tpcn2* knock-out, heterozygote and wild-type mice

Trait	Wild-type (mean \pm SD)	Heterozygotes (mean \pm SD)	Knock-out (mean \pm SD)
Glucose_AUC	22,917.5 \pm 4,384.2	21,811.2 \pm 1,609.2	20,700.0 \pm 3,660.1
Insulin_AUC	165.4 \pm 13.4	147.2 \pm 35.8	126.2 \pm 6.4**
Fasting glucose (mg/dL)	111.0 \pm 12.0	116.3 \pm 15.5	96.2 \pm 9.6*
Fasting insulin (ng/ml)	1.04 \pm 0.22	1.03 \pm 0.51	0.80 \pm 0.25
QUICKI (1/(logI0 + logG0))	0.49 \pm 0.02	0.49 \pm 0.04	0.54 \pm 0.04
Body Weight (g)	25.3 \pm 2.1	24.3 \pm 2.4	27.0 \pm 3.6

**p = 0.031 (wild-type mice differ from knock-out mice based on a Tukey-post-hoc based after an ANOVA between all three genotypes), *p = 0.048 (t-test between wild-type and knock-out mice only)