



Supplementary Figure 1. Functional data and histology of kidney in FD mice (FD) at 20 and 40 weeks. A) Blood urea nitrogen, (B) serum creatinine, (C) urine protein creatinine ratio in 24-hour urine collections, and (D) serum lactic dehydrogenase. (E) Representative hematoxylin and eosin (H&E), F4/80, and terminal deoxynucleotidyl transferase-mediated dUTP nick end labeling (TUNEL) stained kidney sections ($\times 200$, bar = 100 μm). (F) Representative transmission electron micrographs ($\times 10,000$) of lipid inclusions with lamellar structures in the lysosomes of podocytes at 20w of FD mice (bar = 2 μm). (G) α -Galactosidase enzyme activity. Data are presented as mean \pm standard error of the mean. One-way analysis of variance and subsequent Tukey *post hoc* tests were performed to identify statistical differences. ** $P < 0.01$, *** $P < 0.001$, and **** $P < 0.0001$. FD, Fabry disease; NS, not significant; WT, wild-type; 20w, 20-week-old; 40w, 40-week-old.