**ESM Fig. 1 Expression of UPR proteins in autophagy-deficient beta cells.** Pancreatic islets were isolated from Atg7^{F/F} and Atg7^{Δβ-cell} mice, and Western blotting was conducted to examine Bip or CHOP expression and eIF2α phosphorylation, using specific primary antibodies. Western blot data were quantified using a BIO-RAD densitometer (GS-800, Hercules, CA, USA), and the densitometric volumes are expressed as the fold-changes normalized to β-actin band (means ± SD, n = 3) (left). eIF2α phosphorylation was significantly lower in pancreatic islets of Atg7^{Δβ-cell} mice compared to that in Atg7^{F/F} mice. Bip and CHOP expression tended to be lower in pancreatic islets of Atg7^{Δβ-cell} mice compared to that in Atg7^{F/F} mice; however, the difference was not statistically significant (*p>0.1). Representative Western blots are shown (right). (*p<0.05)