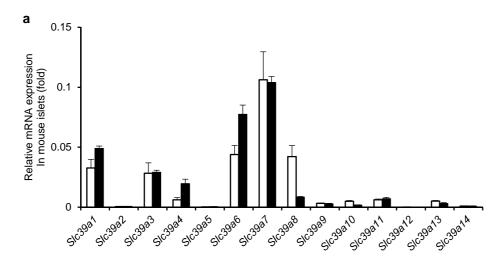
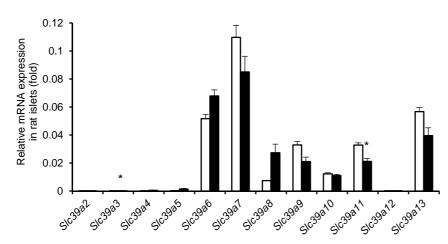
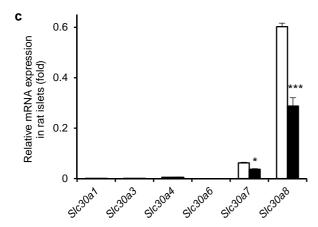
## **ESM Figure 1**









Effect of hypoxia on the expression of genes implicated in  $\mathbb{Z}n^{2+}$  homeostasis in mouse and rat pancreatic islets. (a) CD1 mouse and (b,c) rat islets were incubated for 24 h at either 21% (white bars) or 1% (black bars) ambient oxygen. Total RNA was extracted, and qRT-PCR analysis of (a) Slc39a1-14, (b) Slc39a2-13 and (c) Slc30a1,3,4,6-8 was performed. mRNA levels were normalized to those of a housekeeping gene (cyclophilin, fold expression). Bars represent mean  $\pm$  S.E. \*, p < 0.05; \*\*\*, p<0.001 after Bonferroni correction for multiple measurements.