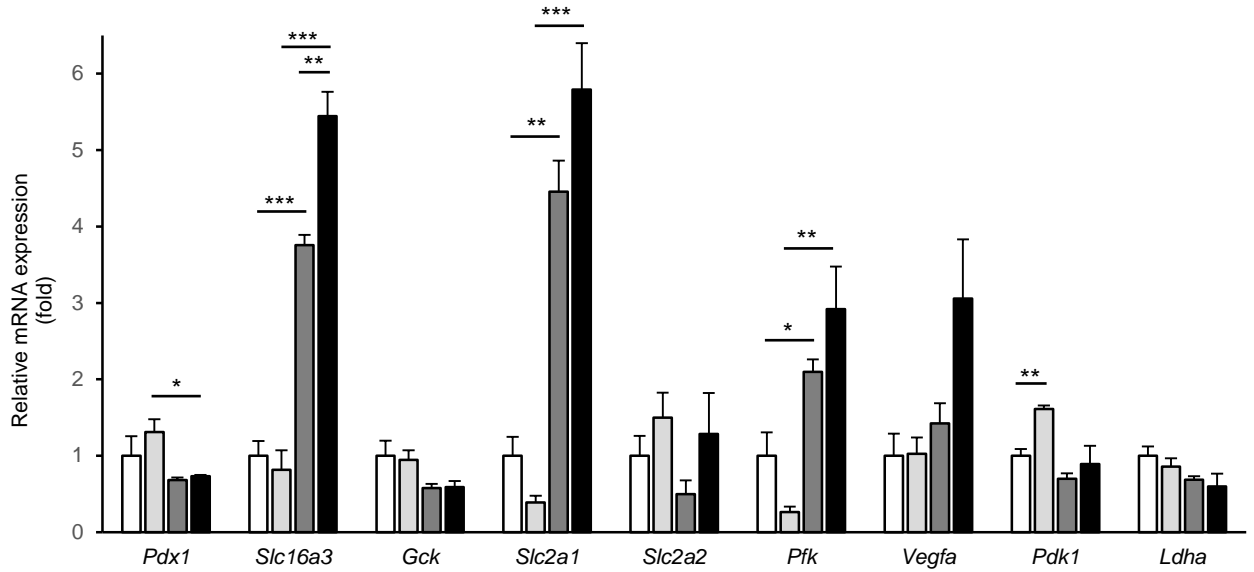


ESM Figure 5



Effect of ZnT8 deletion and hypoxia on the expression of genes involved in glucose mediated insulin secretion and the response to hypoxia in pancreatic beta cells. ZnT8^{+/+} and ZnT8^{-/-} mouse islets were incubated at either 21% ambient oxygen (white bars ZnT8^{+/+}, grey bars ZnT8^{-/-}) or 1% ambient oxygen (dark grey bars ZnT8^{+/+}, black bars ZnT8^{-/-}) for 24 hours. Total RNA was extracted, and qRT-PCR analysis of *Pdx1*, *Slc16a3*, *Gck*, *Slc2a1*, *Slc2a2*, *Pfk* (Phosphofructokinase), *Vegfa* (Vascular endothelial growth factor A), *Pdk1* (Pyruvate dehydrogenase kinase 1) and *Ldha* (Lactate dehydrogenase A) was performed (fold expression, normalisation to cyclophilin). Bars represent mean \pm S.E. *, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$