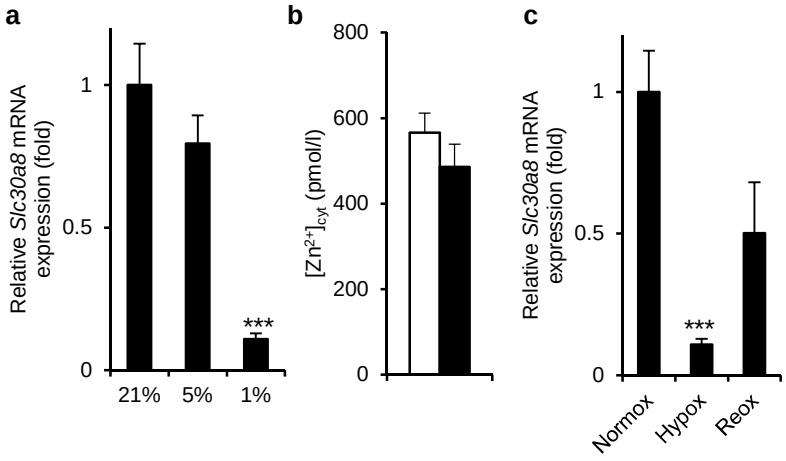
ESM Figure 2



Effects of different Oxygen concentrations and reoxygenation on ZnT8 expression and cytosolic Zn^{2+} concentration. (a) CD1 mouse islets were incubated at either 21%, 5% or 1% ambient oxygen for 24 h. Total RNA was analysed using qRT-PCR. Expression of *Slc30a8* was determined (fold expression, normalisation to cyclophilin). (b) Dissociated CD1 mouse islets were incubated at either 21% ambient oxygen (white bars) or at 1% ambient oxygen for 24 h with consecutive reoxygenation (21%) for 24 h (black bar). $[Zn^{2+}]_{cyt}$ was measured after infection with eCALWY-4-expressing adenovirus. (c) CD1 mouse islets were incubated at either 21% ambient oxygen (Normox), 1% ambient oxygen for 24 h (Hypox) or 1% ambient oxygen for 24 h with consecutive reoxygenation (21% oxygen) for 24 h (Reox). Total RNA was analysed using qRT-PCR. Expression of *Slc30a8* was determined (normalisation to cyclophilin). Bars represent mean ± S.E. ***, $p < 0.001$.