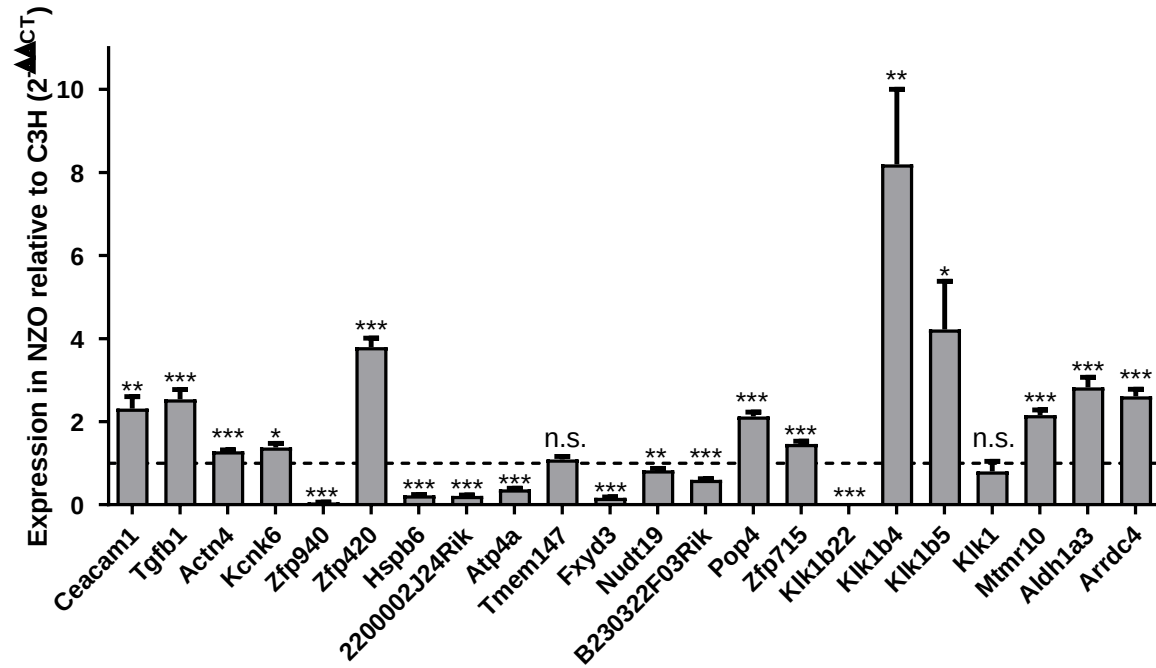




Supplementary File 8 Validation of differential gene expression in the pancreatic islets from NZO and C3H by quantitative real-time PCR. The expression levels in pancreatic islets were normalized to C3H as indicated by the dotted line. TATA box binding protein (*Tbp*) was used as an endogenous control. Out of 22 genes that revealed significant differential gene expression in the microarray analysis, 20 were validated. Data represent mean values $\pm$ SEM from eight mice. Statistical differences between both strains were calculated by unpaired t-test. * P, 0.05, ** P, 0.01 and *** P, 0.001

Primers used for quantitative real-time PCR. Primer sequences were synthesized by Eurogentec (Seraing, Belgium). Primers were dissolved in nuclease free water to reach a final concentration of 10 nM. Fwd, Forward; Rev, Reverse.

Target	Sequence 5'→3'
<i>Tbp</i>	Fwd: GCGGCACTGCCCATTTATT Rev: GGCGGAATGTATCTGGCACA
<i>Ceacam1</i>	Fwd: AGGGTGACGACTCCGTATCA Rev: GGGGTGTCCGGACCATAGAT
<i>Tgfb1</i>	Fwd: GTTCACGGGATACTCCAGGT Rev: CCTCTGGACCTGGAAGGAGTTA
<i>Kcnk6</i>	Fwd: TGCTTGTCACAGCGTACCTC Rev: GATCGGGCAGCAAGATGAGT
<i>Zfp940</i>	Fwd: GGAAGCCAGTTAGAAGCCGT Rev: GAGCCCGAGAAAGATTGGGA
<i>Zfp420</i>	Fwd: TCACGAGAGGGTTGTGTCTGG Rev: ACATCCCTGATTCTCAAACCTCC
<i>Hspb6</i>	Fwd: CTCTTTGACCAGCGTTTCGG Rev: CATCCAGCAGCACGGAAAAA
<i>2200002J24Rik</i>	Fwd: CCCAGCGAAGGATTACCTC Rev: GCTTCCCGGGTCTTAAGGG
<i>Atp4a</i>	Fwd: GGTTAATAGGAAGGATGCCCCG Rev: CAGTCGCTGACAACCTCTCCA
<i>Tmem147</i>	Fwd: TGTCATGGAGACCTTCGTCC Rev: GGTTCCGCAACACCTGAGAT
<i>Fxyd3</i>	Fwd: ACAGAAACCCAGTCACCGCC Rev: AGTTCAAGCCCACCTTCAGAG
<i>Nudt19</i>	Fwd: CTACCACTGGTTGTCCCCAT Rev: TGATGGGCGATCCGAACAAA
<i>B230322F03Rik</i>	Fwd: GTCAGGGTCATTCTCGCCC Rev: CCTATACAGGCAACAGGCCA
<i>Pop4</i>	Fwd: CGATGTGCAGGAGCTGGGAA Rev: TGTCAAAGAGCCGCATGTCT
<i>Zfp715</i>	Fwd: TCGAGTGTTACTTCGCTGGC Rev: AGAAGGGCTAGCTCACACTG
<i>Klk1b22</i>	Fwd: TGTGTCCATCAAGCTCAATCC Rev: GCCTCCTGAGTCTCCCTTACA
<i>Klk1b4</i>	Fwd: CGATGTGCAGGAGCTGGGAA Rev: TGTCAAAGAGCCGCATGTCT
<i>Klk1b5</i>	Fwd: ACCCGTCATATACGAACCCG Rev: ACCATCACAGATCAGTGGGC
<i>Klk1</i>	Fwd: AAGACACTTGTGCGGGTGAC Rev: ACTCAGTCATTTTCAGCCATAGTTT
<i>Mtmt10</i>	Fwd: AGTCCTAGGTCCCAACCAGA Rev: TTGCAAGGCATACCTTCTTGG
<i>Aldh1a3</i>	Fwd: GAGCGATCCTGGCTACTCTG Rev: TCATCTGTGGGGATGGTCTT
<i>Arrdc4</i>	Fwd: GCTGGAGCTGCCTTTGGTTA Rev: TAATTTGGTGGTGCTTCAGGC

TaqMan probes used for quantitative real-time PCR. TaqMan probes were purchased from Thermo Fisher Scientific (Darmstadt, Germany)

Target	Assay ID
<i>Actn4</i>	Mm00502489_m1
<i>Zfp719</i>	Mm01197328_m1