

**Table S1. qRT-PCR primer and probe sequences**

Gene symbol	Forward primer (5'-3')	Reverse primer (5'-3')	Probe (5'-3')
<b>Mouse</b>			
<i>Ngn3</i>	GACGCCAAACTTACAAAG	GTCAGTGCCAGATGT	CCTGCGCTTCGCCACAAC
cyclophilin B ( <i>Ppib</i> )	GCAAAGTTCTAGAGGGCATGGA	CCCGGCTGTCTGTCTTGGT	TGGTACGGAAGGTGGAG
<b>Zebrafish</b>			
$\beta$ -actin	CATCAGGGTGTCATGGTTGGT	TCTCTTGCTCTGAGCCTCATCA	TGGGACAGAAAGACAGCTA
<i>cp</i>	GCTCCAGCGGTAAAAACCT	CGCGCGGCTTCATCTT	ATCAGAACAAAACCG
<i>ghrelin</i>	TCCTCAGTCCGACTCAGAAACC	GCTTCTTCTGCCACTCTTG	AGGGTCGAAGGCCA
<i>glucagon</i>	AAGCGAGGAGACGATCCAAA	TCCAACACACACCAGCAAATG	ACATTTTCATATCATCTCATCC
<i>hhex</i>	GGCGGCCAGGTTTCGAT	CGAACTTCTTCTCCAGCTCGAT	CTCCAACGATCAAAC
<i>insulin</i>	GAGCCCCTTCTGGGTTTCC	AAGTCAGCCACCTCAGTTTCTT	TCCTCCTAAATCTGCC
<i>nkx2.2a</i>	AACCACGGACAGCATCCAAT	TTTGCGGACGTGTCTTGAGA	TCATTACACGGCCTGTCCGCGAA
<i>pdx1</i>	CACACGCACGCATGGAAA	TCCTCGGCCTCGACCATAT	CAGTGGACAGGCCCT
<i>prox1</i>	CGTGCTCTCAACATGCACTACA	GGAATCGCTCCGGAACCT	AAGGCCAACGATTTT
<i>somatostatin</i>	GCCAAACTCCGCCAACTTC	CTGGCGAGTTCCTGTTTTCC	ATCTCTCCTCAGCCCTG