

**Table S1. Primer Sequences for qPCR**

<b>β-cell targets</b>	<b>5' Sequence (5' to 3')</b>	<b>3' Sequence (3' to 5')</b>
<i>MafA</i>	GAGGAGGTCATCCGACTGAAA	GCACTTCTCGCTCTCCAGAAT
<i>Gck</i>	CTGTTAGCAGGATGGCAGCTT	TTCCTGGAGAGATGCTGTGG
<i>Ins1</i>	AGGACCCACAAGTGGAACAAC	GTGCAGCACTGATCCACAATG
<i>Ins2</i>	GGCTTCTTCTACACACCCAT	CCAAGGTCTGAAGGTCACCT
<i>Glp1R</i>	TGAGGTCCAGATGGAGTTTCG	TTCATGCTGCAGTCTCTCTGG
<i>Slc2a2</i>	CTCCAGGAAGGGTGCTAAACC	TGCTCCCTATCCGTTCTTCAA
<i>Ldb1</i>	ACTCATGTGGATGCCTGTGTG	CCCCAACATTTAGCCCCTAAG
HK: <i>Gapdh</i>	CCTGGAGAAACCTGCCAAGTA	TGGAAGAGTGGGAGTTGCTGT

<b>BAT Targets</b>	<b>5' Sequence (5' to 3')</b>	<b>3' Sequence (3' to 5')</b>
<i>Fgf21</i>	CTGCTGGGGGTCTACCAAG	CTGCGCCTACCACTGTTCC
<i>Ucp1</i>	ACTGCCACACCTCCAGTCATT	CTTTGCCTCACTCAGGATTGG
<i>Cox7a1</i>	CAGCGTCATGGTCAGTCTGT	AGAAAACCGTGTGGCAGAGA
<i>Cidea</i>	TGCTCTTCTGTATCGCCCAGT	CTTTGCCTCACTCAGGATTGG
<i>Pgc1α</i>	CCCTGCCATTGTTAAGACC	TGCTGCTGTTCTGTTTTTC
<i>Dio2</i>	CAGTGTGGTGCACGTCTCCAATC	TGAACCAAAGTTGACCACCAG
<i>Elovl3</i>	TCCGCGTTTCATGTAGGTCT	GGACCTGATGCAACCCTATGA
HK: <i>Hprt</i>	AAGGAGATGGGAGGCCAT	GTTGAGAGATCATCTCCACCAAT
HK: <i>36B4</i>	GCGACCTGGAAGTCCAACACTAC	ATCTGCTGCATCTGCTTGG