

**ESM Table 1:** List of primers used to determine *CaCna1d*, *Gk*, *Glut2*, *Ins1*, *Ins2*, *Kir6.2*, *Pdx1*, *Tbp* and *Tcptp* expression.

<b>Gene</b>	<b>Forward 5'-&gt;3'</b>	<b>Reverse 5'-&gt;3'</b>
<i>CaCna1d</i>	CTTCGTCATCGTCACCTTCCA	TGAACATCTTGGACTGCTCA
<i>Gk</i>	CAGAAGGGAACAACATCGTG	CCGCCAATGATCTTTTCGTA
<i>Glut2</i>	TGAGTTCCTTCCAGTTCG	AGGGAGCTGGTGTGTTGTGTA
<i>Ins1</i>	TAGTGACCAGCTATAATCAGAG	ACGCCAAGGTCTGAAGGTCC
<i>Ins2</i>	CCCTGCTGGCCCTGCTCTT	AGGTCTGAAGGTCACCTGCT
<i>Kir6.2</i>	TAGGCCAAGCCAGTGTAGTG	GTGGTGAACACATCCTGCAG
<i>Pdx1</i>	TGTAGGCAGTACGGGTCCTC	CCACCCCAGTTTACAAGCTC
<i>Tbp</i>	TTGGCTAGGTTTCTGCGGTC	GCCCTGAGCATAAGGTGGAA
<i>Tcptp</i>	AGAGTGGCCAAGTTTCCAGA	CACACCATGAGCCAGAAATG