

Supplementary Table 1. Primer sequences for real-time PCR and bisulphite sequencing PCR.

	Forward primer (5'-3')	Reverse primer (5'-3')
<i>Real-time PCR</i>		
<i>Pgc1a</i>	TATGGAGTGACATAGAGTGTGCT	GTCGCTACACCACTTCAATCC
<i>Insr</i>	ATGGGCTTCGGGAGAGGAT	CTTCGGGTCTGGTCTTGAACA
<i>Gck</i>	AGGAGGCCAGTGTAAGATGT	CTCCAGGTCTAAGGAGAGAAA
<i>Glut2</i>	TCAGAAGACAAGATCACCGGA	GCTGGTGTGACTGTAAGTGGG
<i>Glut4</i>	ACACTGGTCCTAGCTGTATTCT	CCAGCCACGTTGCATTGTA
<i>Leptin</i>	GTGGCTTTGGTCTATCTGTC	CGTGTGTGAAATGTCATTGATCC
<i>GAPDH</i>	TGGCCTTCCGTGTTCTAC	GAGTTGCTGTTGAAGTCGCA
<i>Bisulphite sequencing PCR</i>		
<i>Glut2 1st</i>	TTCCCTTAATCCCCCTCAACA	GGGATAGTTGAGAGGGGTAGTTT
<i>Glut2 2nd</i>		TGTGGTAGAAATGGGATAGGG
<i>Glut4 1st</i>	AGGTATGGTTTTTAGATATATTAGGAA	
<i>Glut4 2nd</i>	GTTTGGGATAGTTGGGATATT	AATCCTTAAAACAAAAACTCTTCC
<i>Leptin 1st</i>	GTAGTTAGGTTAGGTATGTAAAGAG	
<i>Leptin 2nd</i>	GTTTTTTGTAGTTTTTTGTTTTTTG	TTATAACTACCCCAATACCACTTAC

The bisulphite sequencing primers of *Glut2* gene were from previous research (Jin *et al.* 2005).