

**ESM Table 1.** The rat oligonucleotide primer sequences for real-time RT-PCR (*in vivo* studies).

Name		Primer Sequences
<i>Glut1</i>	sense	CTGTTGGCCTTTGTGTCTGC
	antisense	GTCAGGCCACAGTACACTCC
<i>Glut2</i>	sense	ACCAGCACATACGACACCAG
	antisense	ACCATTCCGCCTACTGCAAA
<i>Glut4</i>	sense	CCTTTGCACACCACTTCCGA
	antisense	AGAGCCGATCTGCTGGAAAC
<i>Sgt1</i>	sense	TCTTCGCTATCAGCGTCGTC
	antisense	TGCGCTCTTCTGTGCTGTTA
<i>Sgt2</i>	sense	GACATTCTGGTCATTGCCGC
	antisense	CTGCCAAGAAGTAGCCACCA
$\beta$ -actin	sense	ACAACCTTCTTGCAGCTCCTCCG
	antisense	ACGAGCGCAGCGATATCGTC

*Glut1*, glucose transporter 1; *Glut2*, glucose transporter 2; *Glut4*, glucose transporter 4; *Sgt1*, sodium dependent glucose transporter 1; *Sgt2*, sodium dependent glucose transporter 2.