

Table 1. Primers and sequences.

Gene	Forward primer	Reverse primer	Size (bp)	GenBank ID
<i>mCB₁</i> (<i>Cnr1</i>)	ACAGGGCAGTACCCCTTCTT	AGCCCCTGGTGGTATTCTCT	175	NM_007726.3
<i>mCB₂</i> (<i>Cnr2</i>)	TCATTGCCATCCTCTTTTCC	GAACCAGCATATGAGCAGCA	188	NM_009924.4
<i>β-Actin</i> (<i>Actb</i>)	ACTCCTACGTGGGCGACGAGG	CAGGTCCAGACGCAGGATGGC	389	NM_007393.5
<i>mIns1</i>	AGCAAGCAGGTCATTGTTTTC	GGCGGGACTTGGGTGTGTAG	189	NM_008386
<i>mIns2</i>	TCCGCTACAATCAAAAACCAT	GCTGGGTAGTGGTGGGTCTA	410	AK007612
<i>mGcg</i>	ACCTGGACTCCC GCCGTG	TGGTGCTCATCTCGTCAGAG	279	BC012975
<i>mSst</i>	ATGCTGTCCTGCCGTCTC	TTCTCTGTCTGGTTGGGCTC	194	NM_009215
<i>mGlut1</i> (<i>Slc2a1</i>)	AAAGAAGAGGGTTCGGCAGAT	ACAGCGACACCACAGTGAAG	244	NM_011400
<i>mGlut2</i> (<i>Slc2a2</i>)	GCCTGTGTATGCAACCATTG	GAAGATGGCAGTCATGCTCA	205	NM_031197
<i>mGck</i>	GCTTCACCTTCTCCTTCCCT	CATTACCATTGCCACCACA	174	NM_010292.5

Table 2. Primary and secondary antibodies for immunohistochemistry.

Primary antibodies	Host	Dilution	Secondary antibodies
Anti-Glut1 (SPM498, monoclonal) MA5-11315 ^a	Mouse	1:10	Goat anti-mouse-Cy3 ^g
Anti-Glut2 (polyclonal) 07-1402-I ^b	Rabbit	1:200	Goat anti-rabbit-Cy3 ^g
Anti-glucokinase (polyclonal) (in house) ^c	Rabbit	1:50	Goat anti-rabbit-Cy3 ^g
Anti-CB ₁ (polyclonal) GP-Af530 ^d	Guinea pig	1:10	Goat anti-guinea pig-Alexa Fluor 488 ^f
Anti-glucagon (K79bB10, monoclonal) G-2654 ^e	Mouse	1:100	Goat anti-mouse-DTAF ^g or Goat anti-mouse-Alexa Fluor 568 ^f
Anti-glucagon (polyclonal) STJ23760 ^f	Rabbit	1:200	Goat anti-rabbit-Cy2 ^g

^{a,f}Thermo Fisher Scientific, Waltham, MA, USA; ^bMerck Millipore, Darmstadt, Germany; ^ckindly provided by Anne Jörns, Institute of Clinical Biochemistry, Hannover, Germany;

^dFrontier Institute Co.Ltd., Hokkaido, Japan; ^eSigma-Aldrich, Taufkirchen, Germany; ^fSt John`s Laboratory Ltd, London, UK; ^gDianova GmbH, Hamburg, Germany