

Supplementary Table 1. Rat qPCR Target Gene Assay Information

Gene Name/Symbol	RefSeq Access. No. UniGene ID Entrez Gene ID	Amplicon Context Seq. Amplicon Length (bp) Chromosome Location
Glutamate decarboxylase-1 GAD1/GAD65	NM_017007 Rn.91245 24379	CACAGAGACGGACTTCTCCAACCTGTTTGCTCAAGATCTGCTTCCAGCTAAGAAC GGGGAGGAGCAAACCTGTGCAGTTCTTACTGGAGGTGGTTGACATACTCCTCAAC TATGTCCGCAAGACGTTTG 98 bp 3:63489634-63490023
Glutamate decarboxylase-2 GAD1/GAD67	NM_012563 Rn.29951 24380	ACAGCTGGAACCACTGTGTACGGGGCTTTTGATCCTCTCTTGGCTGTAGCTGAC ACTCGCAAAAAATATAAGATCTGGATGCATCTGGATGCTGCTTGGGGTGGAGGG TTACTGATGTCTCGGAAACACAAGTGAAGCTGAACGG 116 bp 17:90895430-90896910
Neuronal nitric oxide synthase Nitric oxide synthase-1 nNOS/NOS-1	NM_052799 Rn.10573 24598	AAATTACATTGGGTTGGATCTGCTGAACCCCAAACGTCTTCTCTTCCATGGTATC TGTCTCCTTCAGAAGACTAAGCTAAATGACTCCTGCAGGAACCTGAGCTCTC GGGGGCAAGAGCTGGCTGCAGAGTTTCTGTGCGCTCTGTCT 120 bp 12:46209420-46209569
Growth hormone-releasing hormone/Somatoliberin Ghrh	NM_031577 Rn.10693 29446	GAACCAGGAACAAAGATCCAGGTTCAACCGCCATTTGGACAGAGTGTGGGCAGA GGACAAGCAGATGGCCCTGGAGAGCATCTTGCAGGGATTCCCAAGGATGAAGC TTTCAGCGGAGGCTTGAGCCCTCGGCCCCCAAAC 111 bp 3:158267972-158270731

Excitatory amino acid Transporter-2 Slc1a2	NM_017215, NM_001035233 Rn.10240 29482	ACAAGCGTGTGACCAGATTTCGTCTCCAGTCGGAGCAACCATTAACATGGATG GTACAGCCCTTTACGAAGCCGTGGCAGCCATCTTCATAGCCCAGATGAATGGGG TCATCCTGGATGGAGGTCAGATAGTGAC
		106 bp
		3:99289110-99289245
Steroidogenic factor-1 Nr5a1/SF-1	NM_001191099 Rn.229378 83826	GTGGGTACTGACACAAGGTGTAATCCAGCAGGGCGGGCGTTGGCCTTCTCCTGG GCGTCCCTTTACCAGGCTGTGGTTGTTTCAGGAATTTACATCGAGGCTGAAGAGG ATGAGGAAGTTGAGACAGACAACTCCTGGCGGTCCAGTT
		117 bp
		3:28224947-28230940
Glucokinase Gck	NM_012565 Rn.10447 24385	CTCCAGAGGCCTTGAAGCCCTTGGTCCAATTGAGGAGGATGCCCTTGTCTAGGT CTTGCTGCCTCACAGGGAAGGAGGAAGGTGAAGCCCAGGGGCAGTTTCTTGTGC TTCATCTGATGCTTGTCAAGGAAGTCAGAGATGC
		111 pb
		14:86839703-86842225
5'-AMP-activated protein kinase subunit alpha-1 Prkaa1/AMPK α 1	NM-019142 Rn.87789 65248	TCGGGAAAATCCGCAGAGAGATCCAGAACCTGAAGCTTTTCAGGCACCCCTCATA TAATCAAAGTGTACCAGGTCATCAGTACACCGTCTGATATTTTCATGGTCATGGA ATATGTCTCAGGAGGAGAGCTATTTGATTATATCTGTAAAA
		120 bp
		2:73897983-73899975
5'-AMP-activated protein kinase subunit alpha-2 Prkaa2/AMPK α 2	NM-023991 Rn.64583 78975	GCTGTAAGCTCATTTTCACGTAATTGCCAGTCACTGGGTTTTTCTTCTTACTCGA AGATGGTATGCATTCACTACCTTCCATTCAAAGTCCAGCTGCTTCATAGCTCGGT ACACCTCCGCCATAATGTCGTA
		103 bp

5:128437766-128440327

Solute carrier family 2,
facilitated glucose transporter
member 2
Slc2a2

NM_012879
Rn.89295
25351

CATTCGGAACAGGACCTGGATTGAGACAACAACCTCCGCACGCAACATGTCAGAA
GACAAGATCACCGGAACCTTGGCTTTCACTGTCTTCACTGCAGTGCTGGGTTCC
TTCCAGTTCGGATATGACATCGGTGTGATCAATG

112 bp

2:134112967-134122919

Solute carrier family 2,
facilitated glucose transporter
member 3
Slc2a3

NM_017102
Rn.95055
25551

GATGACTCCGGTGTGTAGCCAAACTGGAAAGAACCGATTGTGGCAACAGTAAC
AGCGAACACCAGAGATGGGGTCACCTTCGCTGTCCCATGGTCCCAACCTAGCT
CTCAAGTCTTAAGGTAGATCTAGAGGTATCCAGCCAATGTCT

120 bp

4:222582482-222584473

G-protein coupled receptor 81
Hcar1

Not available
Not available
Not available

CGTGTTACCTGCCAGCGTGTTGGCGAGGCTCTACTTCCTCTGGACGGTGCCCT
CCAGTGCCTGTGACCCCTCTGTCCACATAGCTCTCCATGTCACCCTGAGTCTCA
CCTACCTGAACAGCATGCTGGACCCCT

104 bp

12:40015352-40015485