

Table S1. Primers used in this study

Gene ¹	Accession No.	Primer, 5'–3'	Size, bp
<i>β-actin</i>	XM_021086047.1	F: CTGCGGCATCCACGAAACT R: AGGGCCGTGATCTCCTTCTG	147
<i>TRPV1</i>	XM_013981216.2	F: ATTACACCCGTGGCTTCCAG R: CAGACAAGCCCTCGACACTT	199
<i>FFAR3</i>	NM_001315601.1	F: ACCGTCTATCTCACGTCCCT R: CCGGGTCTTGTACCAGAGTG	87
<i>TRPM5</i>	XM_021082617.1	F: GAACTGATCTTCCTGGCCCC R: CTTTTGAGGCCACAAGCCAC	105
<i>mGluR5</i>	XM_021102332.1	F: GGGGAAACCCTAAGCTCCAAT R: GGAGTTGAGCTCGCTGATGT	516
<i>T1R1</i>	XM_013988748.2	F: TCAACGTGTTTGCCATGCTG R: AAGGAGGCTCTGCCATTTC	367
<i>PLCβ2</i>	XM_021097783.1	F: GCTTGCCAGGTAGCTGATA R: GGACAGACCCCCATCCAAAG	165
<i>GPRC6A</i>	XM_021089187.1	F: GCCGGGATTTGTCCACAGTA R: TGAGCTCCCTCCATCCATGA	160
<i>PAT1</i>	NM_203174.3	F: GGAGCGACATGTTTGAGTGG R: TGATCTGCACAATAACTTTTTAGGT	323
<i>PAT2</i>	NM_202714.4	F: TGCAGAAAAGCGTCCAAATGA R: TCTCTGCCTAGGCCATCCTT	540
<i>Y+LAT1</i>	XM_013978228.1	F: GAGTGCCAGAACACAAACGA R: TCCTCCATCTTCCAAATCCA	116
<i>SNAT2</i>	NM_001317081.1	F: CTGAGCAATGCGATTGTGGG R: ACGTGGTCGGCAAGAATCAT	615
<i>GCN2</i>	NM_001339970.1	F: GGCCTTTAAACTCATTGGCGT R: GATTGCTATTTGCGGAGGCG	628
<i>MAP4K3</i>	XM_021088335.1	F: AGACTGCTTGGATCTGACAGG R: TGTGCTGTTTCATTGCCAGC	552
<i>PIK3C3</i>	NM_001012956.2	F: GTCCGATGAAGAGGCAGTCC R: CTACCACCGCAGCAAACAGA	77
<i>S6K1</i>	XM_001693507.1	F: CTCAATGGCGGACACCTCTT R: CCATGTTGCATGTGACGGTG	589

¹*TRPV1*, The transient receptor potential cation channel subfamily V member 1; *FFAR3*, free fatty acid receptor 3; *TRPM5*, transient receptor potential cation channel subfamily M member 5; *mGluR*, metabotropic glutamate receptors; *T1R1*, taste 1 receptor member 1; *PLCβ2*, Gβγ-mediated phospholipase C β2; *GPRC6A*, G protein-coupled receptor family C group 6 member A; *PAT1*, proton-coupled amino acid transporter 1; *PAT2*, proton-coupled amino acid transporter 2; *Y+LAT1*, L-type amino acid transporter 1; *SNAT2*, sodium dependent neutral amino acid transporter 2; *GCN2*, general control nonderepressible 2; *MAP4K3*, mitogen-activated protein 4 kinase 3; *PIK3C3*, phosphatidylinositol 3-kinase catalytic subunit type 3; *S6K1*, ribosome protein subunit 6 kinase 1.