

**Table S1 Corresponding sgRNAs and primers of detection**

Name	Sequence (5'-3')
<i>amy</i> gRNA F	TGTAATACGACTCACTATAGGTTACGTTGAGGGGAAGGTGGTTT TAGAGCTAGAAAT
<i>try</i> gRNA1 F	TGTAATACGACTCACTATAGGTGAGGATGACAAGATCGTTGGTTT TAGAGCTAGAAAT
<i>try</i> gRNA2 F	TGTAATACGACTCACTATAGGCTCCCTGATCTCCAGTACCTGTTTT AGAGCTAGAAAT
gRNA R	AAAAGCACCGACTCGGTGCC

  

Name	Sequence (5'-3')	Annealing temperature (°C)
<i>amy</i> detection-F	CATTGGACTGTTGCGACCAA	58
<i>amy</i> detection-R	TACTCGCCGGTTGTAATGGG	
<i>try</i> detection-F	TAGGACGCAGCCATGAAGTT	58
<i>try</i> detection-R	AGCGCACAACCTCACTCTTT	

Note: The sequences of target sites are marked with red.

**Table S2 Primer sequences for the quantitative real-time PCR**

Gene	Gene ID	Sequence of primer (5'-3')
<i>β-actin</i>	101171147	F: TTTATGCCAGCAACGACT R: CGACGAAAGCCCTACTCCC
<i>agrp</i>	101171147	F: GCATCCCTCACCAGCAGTC R: GCCTATTTGGCGGCAGTAAC
<i>cck</i>	101165324	F: TCCTTCTGAAGTTGCTCTT R: CCGTGAATCTCCATCCTC
<i>pomc</i>	101168338	F: TTGCTGGCTGTTGGTGGTTCT R: AGGTCTGGGCTTTCAGGTTTGA
<i>npy</i>	100144351	F: GCCTTGGAGCCTTAACAGAGG R: TCTCAGGACTGGACCTCTTCC
<i>amy</i>	101163630	F: GACTTCAACGACGGCAAAT R: AATCCAGCCACTCCCATG
<i>try</i>	101154931	F: AACGGCAGTCCTCCAGATG R: GCTCGGTTCCCTCATTAC
<i>ctra</i>	101170410	F: ACCGGTTACTCTCGGATTGTG R: GTTGGAGTTGCGGTCATGTTT
<i>ctrb</i>	105356289	F: GAACACAACAAGGGCGCTG R: CCAGAGGTGACGCAGGTTGA
<i>gh</i>	101171460	F: TGAGGAACAACGTCAACTCAGC R: AGAATTCCTGTCTTGAGTTCAGCC
<i>igf</i>	101168167	F: CAATGGCATTATGTCATGTCC R: CCTCGACTGGAGTTTTTCTGAT
<i>mtor</i>	101156248	F: GAAGCCACGACGTTCTACGA R: TTGGCAAAGCGACTGATCCT

Abbreviations: *β-actin* (beta-actin), *agrp* (agouti-relate protein), *cck* (cholecystokinin), *pomc* (pro-opiomelanocortin), *npy* (neuropeptide Y), *ctra* (chymotrypsin A), *ctrb* (chymotrypsin B), *gh* (growth hormone), *igf* (insulin-like growth factor), *mtor* (mechanistic target of rapamycin).