

Supplementary Table S1 Primers used in this study ^a

Gene	Sense/ antisense	Primer sequence (5'-3')	Size (bp)
<i>Primers used for quantitative real-time RT-PCR assay</i>			
<i>CMC3R</i>	Sense	ACCGAGGACATCAGTGACTCCA	206
	Antisense	AACATATCTGCCACAGCCAAGC	
<i>CMC4R</i>	Sense	GGACTCCAGCCTCTCCAT	180
	Antisense	TTGCCACAATGACCAAGACG	
<i>CMRAP</i>	Sense	CTCATCTGAGTACTTCTGGT	176
	Antisense	ATCCAGAGCGGGACATGTAGA	
<i>CMRAP2</i>	Sense	TTGTCTGACCCTGCTGACA	160
	Antisense	AGTGACCGAGACTCTTCAGCT	
<i>cPOMC</i>	Sense	CTGGGGCTGCTGCTGTGTCA	207
	Antisense	GAAATGGCTCATCACGTA	
<i>cAgRP</i>	Sense	TTCCAGGCCAGACTTGGATCAGA	212
	Antisense	GCAGGTGGCACAGGGGTACAGCA	
<i>cNPY</i>	Sense	AGCCAGAGACACTGATCTCAG	184
	Antisense	TGCATGCACTGGGAATGACGCT	
β -actin	Sense	CCCAGACATCAGGGTGTGATG	123
	Antisense	GTTGGTGACAATACCGTGTTCAT	
<i>^bPrimers for construction of the expression plasmids</i>			
<i>CMC2R</i>	Sense	<u>CCCAAGCTT</u> GAGCAGAAGAATGAGCACT	1135
	Antisense	<u>CGGAATT</u> CGCAAAGACTTGTCTGGATAC	
<i>CMC3R</i>	Sense	<u>GGGTACC</u> ACCTGGCTGACCATGAACAG	1065
	Antisense	<u>CGGAATT</u> CGCTGTGTAGCTATGTCCACGTA	
<i>CMC4R</i>	sense	<u>GGGTACC</u> GATGAATTTACCCAGCATCGT	1028
	antisense	<u>CGGAATT</u> CTGCTGAATACACAGTAACAT	
<i>CMRAP</i>	Sense	<u>GGGTACC</u> ACTGACATGGCCAACAGAAC	364
	Antisense	<u>CGGAATT</u> CCTCAGGCTGAAATACTTCCA	
<i>CMRAP2</i>	sense	<u>GGGTACC</u> ATGTCTGCCCTGAGGCTGAT	627
	antisense	<u>CCGCTCG</u> AGTCAGTCAAGGATCCGATGAG	

^a All primers were synthesized by Beijing Genome Institute (Shanghai, China).^b Restriction sites added at the 5'-end of the primers are underlined.