

RT-PCR primers for amplification of miR-148b

(F) Forward primer; (R) Reverse primer.

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Additional file 1, Table S2

The sequence of hsa-miR-148b mimics and negative control(NC) , anti-miR-148b and anti-NC, siRNA and NC for CCKBR

	sequence(5'-3')
hsa-miR-148b mimics	UCAGUGCAUCACAGAACUUUGU AAAGUUCUGUGAUGCACUGAUU
negative control	UUCUCCGAACGUGUCACGUdTdT ACGUGACACGUUCGGAGAAdTdT

	sequence(5'-3')
anti-miR-148b	ACAAAGUUCUGUGAUGCACUGA
anti-NC	CAGUACUUUUGUGUAGUACAA

	sequence(5'-3')
siRNA-CCKBR	AAGCGCGTGGTGCGAATGTTG
NC	AAGCTTCATAAGGCGCATAGC

Additional file 1, Table S3

Primers used for luciferase reporters construction.

		Primer sequence (5' -3')
CCKBR	F	GCTCTAGAGGCAAATGACATGCACTGAC
CCKBR	R	GCTCTAGAACTGGAAAGGGATGAAGAAC
DNMT1	F	GCTCTAGATTCTGCCCTCCCGTC
DNMT1	R	GCTCTAGAGGTTTATAGGAGAGATTTATTTG
WNT10B	F	GCTCTAGAGCCCTTTGCTCTGATTCCT
WNT10B	R	GCTCTAGACCCAGCCAAAAGGAGTATGA
ROBO1	F	GCTCTAGACCTGTCTTAACTGGCCTAAA
ROBO1	R	GCTCTAGAGAAAGCAAGTAATGCCTCTA
NOG	F	GCTCTAGAGTTCCACCACCCTCTAGC
NOG	R	GCTCTAGATAAATTAAAACTGGGACCGT
CCKBR-conserved	F	GCTCTAGA ACAGGACTGATTCTGGGATG
CCKBR-conserved	R	GCTCTAGAACTGGAAAGGGATGAAGAAC
CCKBR-poorly conserved	F	GCTCTAGAGGCAAATGACATGCACTGAC
CCKBR-poorly conserved	R	GCTCTAGACAGGCTCAGTCCCATATCAG
Positive control (PC)	F	CTAGAACAAAGTTCTGTGATGCACTGAT
Positive control (PC)	R	CTAGATCAGTGCATCACAGAACTTTGTT

(F) Forward primer; (R) Reverse primer.

Additional file 1, Table S4

Putative target genes of miR-148b

Genbank No.	Official symbol	Official full name
NM_176875	CCKBR	cholecystokinin B receptor
NM_001130823	DNMT1	DNA (cytosine-5-)-methyltransferase 1
NM_001924	GADD45A	growth arrest and DNA-damage-inducible, alpha
NM_005450	NOG	noggin
NM_002941	ROBO1	roundabout, axon guidance receptor, homolog 1 (Drosophila)
NM_003394	WNT10B	wingless-type MMTV integration site family, member 10B
NM_020156	C1GALT1	core 1 synthase, glycoprotein-N- acetylgalactos-amine 3-beta-galactosyltransferase, 1
NM_003895	SYNJ1	synaptojanin 1
NM_004299	ABCB7	ATP-binding cassette, sub-family B (MDR/TAP), member 7
NM_033150	COL2A1	collagen, type II, alpha 1
NM_016203	PRKAG2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit

The miRNA targets predicted by computer-aided algorithms were obtained from PicTar, <http://pictar.bio.nyu.edu>, TargetScan, <http://www.targetscan.org>, and miRBase Targets, <http://www.microrna.sanger.ac.uk>. Then, the overlap of these results were further studied by Expression Analysis Systematic Explorer (EASE) analysis based on Gene ontology database and KEGG pathway database.