

Epigenetically regulated miR-145 suppresses colon cancer invasion and metastasis by targeting LASP1

SUPPLEMENTARY TABLES

Supplementary Table S1: Information of CRC patients collected for clinical studies

	Total n=33 (%)
Age (years)	
≤ 60	21 (63.6)
> 60	12 (36.4)
Gender	
Female	15 (45.5)
Male	18 (54.5)
Tumor Status	
T3	18 (54.5)
T4	15 (45.5)
Tumor Metastasis	
Lymphatic	29 (87.9)
Hepatic	4 (12.1)

Clinical information of the 33 patients whose tissue specimens were collected to investigate the expression levels of miR-145.

Supplementary Table S2: Primers used for qRT-PCR analyses in this study

Gene	Forward (5'-3')	Reverse (5'-3')
Hsa-miR-145	GTCCAGTTTTCCAGGAATCCC	RR716, SYBR [®] PrimeScript [™] miRNA RT-PCR Kit, TaKaRa
U6	CTCGCTTCGGCAGCACA	AACGCTTCACGAATTTGCGT
E-cadherin	TGCCCAGAAAATGAAAAAGG	GTGTATGTGGCAATGCGTTC
Vimentin	GAGAACTTTGCCGTTGAAGC	GCTTCCTGTAGGTGGCAATC
Snail1	ACAAGCACCAAGAGTCCG	ATGGCAGTGAGAAGGATGTG
ZEB1	GACAGTGTTACCAGGGAGGAGCA	TTCAGGTGCCTCAGGAAAAATGA
LASP1	CCTTCTTCTGCCACTTCTGC	CAACAGGTCTCCCATTCCAG
β -actin	TGGCATCCACGAACTACC	GTGTTGGCGTACAGGTCTT

Supplementary Table S3: Sequences of the oligonucleotides in this study

Oligonucleotides	Sense (5'-3')	Antisense (5'-3')
mimic NC/siNC	UUCUCCGAACGUGUCACGUTT	ACGUGACACGUUCGGAGAATT
miR-145 mimic	GUCCAGUUUCCCCAGGAAUCCCU	GGAUUCCUGGGAAAACUGGACUU
inhibitor NC	CAGUACUUUUGUGUAGUACAA	
miR-145 inhibiotr	AGGGAUUCCUGGGAAAACUGGAC	
siLASP1(si560)	CCGAGCUCCAGAGAAUCAATT	UUGAUUCUCUGGAGCUCGGTT
siLASP1(si788)	AGUCCUAUGGUGGCUACAATT	UUGUAGCCACCAUAGGACUTT
siLASP1(si932)	UCGUCAACGUGCAGCAGAUTT	AUCUGCUGCACGUUGACGATT

Supplementary Table S4: Primers used for construction of plasmids in this study

Gene	Plasmid	Forward (5'-3')	Reverse (5'-3')
LASP1	WT 3'UTR	GGAATTCCTGGGGCAGAGAAGTT	CGGATATCCACCCACAGTCTTTTCC
	MT 3'UTR	GGAATTCTGACAACCTGAACA GCACAGCCTCGGGGAT	CGGATATCCACCCACAGTCTTTTCC
pmiR-145p-F1		TTGAGCTCTGGAAGTGGTAAGTGCTG	CAGATCTACTTCCCAAGCTTTTGGGGAG
pmiR-145p-F2		TTGAGCTCCAAAAGCTTGGGAAGTGG	AAGATCTTGTCCTAAGGACCAGCTG
pmiR-145p-F2A		TTGAGCTCCAAAAGCTTGGGAAGTGG	GAAGATCTTCGGGGTACCCC TGAGATGTAAAGA
pmiR-145p-F2B		CGAGCTCGGGGGTACCCC TCACTTTTAGCAAAGA	GAAGATCTTCGCTCTAGAGCG CCAGAGGGGTGGATT
pmiR-145p-F2C		CGAGCTCGGCTCTAGAGCATGG TTGGTTTAAAT	AAGATCTTGTCCTAAGGACCAGCTG

Supplementary Table S5: Primer sequences for miR-145 regulatory region analyzed in ChIP assays

Sets of primers	Forward (5'-3')	Reverse (5'-3')
1	AACAATGAGCCCTGGAAAGC	GGACTGGTTTCGGCAATACC
2	AATGAGCAGCAGAGGAGAGC	GGTCCCAGGTTCCATAATCA
3	TTAAAGAAGGCCAAGGCTCA	GGA ACTTCAATTGCCCTGAA
4	TGCAGAAGAGAACTCCAGCT	CCAGCTGTGAAACCATGACC
5	CTTCCCACCCACAGTTG	AAACGCATGCCTGATGGT