

Table S1. Clinical feature of CRC patients (Cohort I)

Clinical feature	High expression (n=91)	%	Low expression (n=100)	%
Age	67.9±10.7		66.6±13.9	
Gender				
M	43	47.3	64	64.0
F	48	52.7	36	36.0
TNM				
I	5	5.5	12	12.0
II	24	26.4	35	35.0
III	26	28.6	30	30.0
IV	36	39.5	23	23.0
Localization				
Colon	57	46	61	35.2
Rectum	34	54	39	64.8

Table S2. Clinical feature of CRC patients (Cohort II)

Clinical feature	High expression (n=104)	%	Low expression (n=80)	%
Age	57.9±11.8		59.7±12.4	
Gender				
M	61	58.7	42	52.5
F	43	41.3	38	47.5
TNM				
I	5	4.8	11	13.7
II	38	36.5	34	42.5
III	57	54.8	30	37.5
IV	4	3.9	5	6.3
Localization				
Colon	57	54.8	42	52.5
Rectum	47	45.2	38	47.5
Differentiation				
Low	31	29.8	22	27.5
High	73	70.2	58	72.5

Table S3. Primer sequences for qPCR

Species	Target gene	Forward/Reverse	Sequence (5' to 3')
Mus musculus	<i>ACTB</i>	Forward	GGCCAACCGTGAAAAGATGA
Mus musculus	<i>ACTB</i>	Reverse	TACGACCAGAGGCATACAGG
Mus musculus	<i>RELA</i> (p65)	Forward	CCGGGATGGCTACTATGAGG
Mus musculus	<i>RELA</i> (p65)	Reverse	TCTTCACACACTGGATCCCC
Mus musculus	<i>CXCL1</i>	Forward	TCCAGAGCTTGAAGGTGTTGCC
Mus musculus	<i>CXCL1</i>	Reverse	AACCAAGGGAGCTTCAGGGTCA
Mus musculus	<i>CXCL3</i>	Forward	TACGATCAGCGCCTCAATGCCA
Mus musculus	<i>CXCL3</i>	Reverse	AGCAGGAAACCAGCCACTAGCT
Mus musculus	<i>CXCL5</i>	Forward	CCGCTGGCATTCTGTGTTGCTGT
Mus musculus	<i>CXCL5</i>	Reverse	CAGGGATCACCTCCAAATTAGCG
Mus musculus	<i>CCND1</i>	Forward	GGAGATTGTGCCATCCATGC
Mus musculus	<i>CCND1</i>	Reverse	GACCTCCTCTTCGCACTTCT
Mus musculus	<i>OPN1SW</i>	Forward	CTTACGGCTTGTACCATCC
Mus musculus	<i>OPN1SW</i>	Reverse	CCTGCACACCATCTCCAGAA
Mus musculus	<i>TAPBP</i>	Forward	CAGCACTCTCTTCAGCCTCT
Mus musculus	<i>TAPBP</i>	Reverse	GTTATGGGTGAGGACGGTCA
Mus musculus	<i>TAP1</i>	Forward	CCTGGGCCCTAAGAAGAGAC
Mus musculus	<i>TAP1</i>	Reverse	GAATCCAGTCAGTGATGCGG
Mus musculus	<i>TNFSF10</i>	Forward	TGTGTCTGTGGCTGTGACTT
Mus musculus	<i>TNFSF10</i>	Reverse	TCCCAGAAATCCTCATCCGT
Mus musculus	<i>IL6</i>	Forward	AGCCAGAGTCCTTCAGAGAGAT
Mus musculus	<i>IL6</i>	Reverse	GCCACTCCTTCTGTGACTCC
Homo sapiens	<i>CXCL1</i>	Forward	CACTCAAGAATGGGCGGAAA
Homo sapiens	<i>CXCL1</i>	Reverse	CCTTCTGGTCAGTTGGATTTGT
Homo sapiens	<i>ACTB</i>	Forward	CAACCGCGAGAAGATGACC
Homo sapiens	<i>ACTB</i>	Reverse	CCAGAGGCGTACAGGGATAG
Homo sapiens	<i>RELA</i> (p65)	Forward	CCGGGATGGCTTCTATGAGG
Homo sapiens	<i>RELA</i> (p65)	Reverse	CTGACTGATAGCCTGCTCCA

Table S4. Target sequence for shRNA

shRNA name	Target sequence (5' to 3')
shNC	TTCTCCGAACGTGTCACGT
shYTHDF1-1	GATACAGTTCATGACAATGA
shYTHDF1-2	CAGGCTGGAGAATAACGACAA

Table S5. Primer sequences for MeRIP-qPCR

Primer name	Sequence (5' to 3')
<i>RELA</i> -MeRIP#1 F	GACCCAGGAGTGTTACAGA
<i>RELA</i> -MeRIP#1 R	AGCTGTGGAGTGAGACATGG
<i>RELA</i> -MeRIP#2 F	GGCTTCCCAATGGTCTCTCA
<i>RELA</i> -MeRIP#2 R	CACCTTAGGAGCTGATCTGACT
<i>RELA</i> -MeRIP#3 F	GCTTCCATCTCCAGCTTCTAG
<i>RELA</i> -MeRIP#3 R	GTGTACAGGAATCCGCGTG
<i>RELA</i> -MeRIP#4 F	ACAGGTGGGATGTTGCTGG
<i>RELA</i> -MeRIP#4 R	CCTGCCCTCCTGACTCTACA