

Table S1 Clinical features of 8 CRC cases for microarray test

Case	Age	Gender	Location ^a	Differentiation	Pathological features	T	N	M	Stage ^b
577	60	Male	R	moderate	Non-mucinous, Tubular	3	0	0	II
581	64	Male	R	moderate	Non-mucinous, Tubular	4	2	0	III
590	65	Female	S	moderate	Non-mucinous, Papillary & Tubular	4	2	0	III
601	88	Female	R	moderate	Non-mucinous, Tubular	2	0	0	I
661	78	Female	T	moderate	Non-mucinous, Tubular	4	0	0	II
698	74	Male	S	moderate	Non-mucinous, Papillary & Tubular	3	0	0	II
702	76	Female	R	moderate	Non-mucinous, Tubular	4	0	0	II
705	74	Female	R	moderate	Non-mucinous, Tubular	3	1	0	III

a, R, rectum. S, Sigmoid colon. T, Transverse colon

b, the JACC classification

Table S2 Differentially expressed miRNAs in CRC compared with adjacent normal tissues detected by microarray test

microRNA	Fold change (CRC <i>V.S.</i> normal)	up/down regulated	FDR (paired <i>t</i> test)	q-value (%) (paired SAM)
miR-424	4.596	Up	0.004	0.000
miR-224	4.572	Up	0.000	0.000
miR-96	4.354	Up	0.009	0.000
miR-223	3.758	Up	0.025	0.000
miR-7	3.360	Up	0.009	0.000
miR-21	3.243	Up	0.005	0.000
miR-19a	2.664	Up	0.036	0.000
miR-17	2.591	Up	0.008	0.000
miR-20a	2.578	Up	0.005	0.000
miR-19b	2.573	Up	0.009	0.000
miR-106b	2.164	Up	0.009	0.000
miR-29b	1.870	Up	0.007	0.000
miR-93	1.763	Up	0.011	0.000
miR-27a	1.614	Up	0.035	0.000
miR-25	1.587	Up	0.003	0.000
miR-29a	1.337	Up	0.007	0.000
let-7g	0.810	Down	0.019	1.581
let-7b	0.734	Down	0.022	0.858
miR-186	0.702	Down	0.030	0.000
let-7c	0.700	Down	0.035	0.858
miR-320b	0.656	Down	0.019	0.000
miR-574-3p	0.623	Down	0.009	0.000
miR-342-3p	0.500	Down	0.007	0.000
miR-10b	0.425	Down	0.006	0.000
miR-30a	0.389	Down	0.029	0.000
miR-378	0.385	Down	0.016	0.000
miR-150	0.327	Down	0.010	0.000
miR-497	0.320	Down	0.025	0.000
miR-375	0.319	Down	0.009	0.000
miR-195	0.299	Down	0.018	0.000
miR-145	0.191	Down	0.017	0.000
miR-133b	0.183	Down	0.022	0.000

Table S3 Clinical data of the 40 cases for qRT-PCR validation test

Characteristics	Number	%
Age (years)		
< 60	14	35
>=60	26	65
Sex		
Male	19	47.5
Female	21	52.5
Invasion		
T1	1	2.5
T2	5	12.5
T3	15	37.5
T4	19	47.5
Lymph node metastasis		
N0	23	57.5
N1	6	15
N2	11	27.5
Metastasis		
M0	34	85
M1	6	15
Stage^a		
I	6	15
II	15	37.5
III	13	32.5
IV	6	15%
Location		
Ascending colon	9	22.5
Transverse colon	1	2.5
Descending colon	1	2.5
Sigmoid colon	9	22.5
Rectum	20	50
Mucinous carcinoma		
mucinous carcinoma	6	15
non-mucinous carcinoma	34	85
Micro-satellite		
MSS	24	60
MSI-H	16	40

a, the JACC classification

Table S4 Primers and probes used for qRT-PCR

Gene		Sequence of primers and probes
SFRP1	FP	ACGTCTGCATCGCCATGA
	RP	CTCAGATTTCAACTCGTTGTCACA
	Probe	FAM-CAAGCCCCAAGGCACAACGGTGT-BHQ1
KLF4	FP	CGCTCCATTACCAAGAGCTCAT
	RP	CGATCGTCTTCCCCTCTTTG
	Probe	FAM-TTCCTGCATGCCAGAGGACCC-BHQ1
RFN138	FP	TGCTCAGGAGGTGCTCAAAACG
	RP	CATTGCAGTCAGGAAACATTTTCT
	Probe	FAM-CGTGCGGACCACGGCCTGTC-BHQ1
SFRP2	FP	TGCTTGAGTGCGACCGTTT
	RP	CAAAGCGTTTCCATTATGTCGT
	Probe	FAM-ACAACGACCTTTGCATCCCCCTCG-BHQ1

TaqMan probes were labeled by a 5'FAM reporter and 3'BHQ1 quencher.

