

Additional file 1: Table S1. Characteristics of patients and healthy controls enrolled in this study.

A. Plasma samples in study of miRNA biomarker selection collected from Shenzhen People’s Hospital (Shenzhen, China).

colorectal cancer

number	age	gender	TNM
1	57	male	I
2	33	female	I
3	55	male	I
4	54	male	I
5	46	male	I
6	56	female	I
7	58	female	I
8	62	female	I
9	79	female	I
10	57	male	I
11	77	male	I
12	61	female	I
13	49	female	I
14	77	female	I
15	61	female	I
16	49	female	I
17	63	female	I
18	56	female	I
19	52	female	I
20	65	male	I
21	69	female	I
22	63	male	I
23	68	female	I
24	50	female	I
25	52	female	I
26	72	male	I
27	77	male	I
28	60	male	I
29	71	female	I
30	60	female	I
31	43	female	I
32	76	male	I
33	65	male	I
34	79	female	I
35	75	female	I
36	60	male	I
37	57	female	I
38	60	male	I
39	61	male	I
40	70	male	I
41	67	female	I
42	57	female	I
43	51	female	I
44	73	female	I A

healthy

number	gender	age
1	male	57
2	female	36
3	male	55
4	male	54
5	male	48
6	female	58
7	female	59
8	female	62
9	female	77
10	male	44
11	female	81
12	female	55
13	male	49
14	female	61
15	female	81
16	female	62
17	female	58
18	female	62
19	male	64
20	male	39
21	male	57
22	male	65
23	male	54
24	male	56
25	male	81
26	male	57
27	female	58
28	female	57
29	female	60
30	male	73
31	male	67
32	female	66
33	female	73
34	female	68
35	male	58
36	male	67
37	female	59
38	male	55
39	female	66
40	male	61
41	female	55
42	female	59
43	female	58
44	female	59

45	38	female	I A
46	57	male	I A
47	61	female	I A
48	70	male	I A
49	76	female	I A
50	56	female	I A
51	40	male	I B
52	74	female	I B
53	65	male	I B
54	41	female	II
55	38	female	II
56	81	female	II
57	63	female	II
58	58	female	II
59	65	male	II
60	58	female	II
61	58	female	II
62	46	male	II A
63	42	male	II A
64	63	male	II A
65	61	female	II A
66	56	male	II A
67	57	male	II A
68	88	male	II A
69	59	male	II A
70	77	female	II A
71	70	male	II A
72	36	female	II B
73	32	male	II B
74	38	female	II B
75	36	female	II B
76	55	male	II B
77	53	male	II B
78	40	female	II B
79	66	male	II B
80	63	male	II B
81	60	male	II B
82	64	female	II B
83	56	male	II B
84	68	male	II B
85	66	female	II B
86	76	male	II B
87	66	male	II B
88	65	male	II B
89	58	female	II B
90	80	female	II C
91	65	female	II C
92	82	female	II C
93	79	female	II C

45	female	44
46	male	63
47	male	58
48	male	60
49	male	55
50	male	54
51	male	46
52	female	72
53	female	78
54	female	55
55	female	46
56	female	56
57	female	57
58	male	56
59	female	56
60	female	56
61	male	56
62	male	49
63	male	46
64	male	64
65	female	62
66	female	56
67	male	54
68	female	55
69	female	58
70	male	61
71	male	64
72	female	37
73	male	37
74	female	46
75	female	37
76	male	55
77	male	53
78	female	48
79	male	59
80	male	55
81	female	69
82	male	55
83	male	56
84	male	54
85	male	78
86	male	71
87	female	75
88	male	59
89	male	67
90	female	61
91	female	70
92	female	70
93	female	83

94	58	female	IIIA
95	37	male	IIIA
96	33	male	IIIA
97	53	male	IIIA
98	78	female	IIIA
99	54	male	IIIA
100	69	male	IIIA
101	81	male	IIIA
102	73	male	IIIA
103	66	male	IIIA
104	50	female	IIIA
105	66	male	IIIA
106	62	male	IIIA
107	70	male	IIIA
108	62	male	IIIA
109	37	female	IIIB
110	74	female	IIIB
111	32	male	IIIB
112	63	male	IIIB
113	65	male	IIIB
114	85	female	IIIB
115	66	female	IIIB
116	66	male	IIIB
117	56	female	IIIB
118	63	male	IIIB
119	45	female	IIIB
120	57	male	IIIB
121	62	male	IIIB
122	49	female	IIIB
123	33	male	IIIC
124	37	female	IIIC
125	27	male	IIIC
126	43	male	IIIC
127	54	male	IIIC
128	45	male	IIIC
129	35	male	IIIC
130	65	female	IIIC
131	72	male	IIIC
132	65	female	IIIC
133	60	female	IIIC
134	50	female	IIIC
135	57	male	IIIC
136	57	female	IIIC
137	36	female	IV
138	45	male	IV
139	60	female	IV
140	47	male	IV
141	49	female	IV

94	female	60
95	male	46
96	male	42
97	male	53
98	female	55
99	female	47
100	female	60
101	female	66
102	female	82
103	male	79
104	male	61
105	female	73
106	male	57
107	female	57
108	male	53
109	female	43
110	female	72
111	male	44
112	female	66
113	female	63
114	female	65
115	female	60
116	male	58
117	male	60
118	male	57
119	female	58
120	female	55
121	male	62
122	male	52
123	male	43
124	female	43
125	male	34
126	male	47
127	male	54
128	male	47
129	male	83
130	male	60
131	male	54
132	female	60
133	female	60
134	male	62
135	male	55
136	male	54
137	female	42
138	male	48
139	female	61
140	female	75
141	female	76

142	35	male	IV
143	38	female	IV
144	68	male	IV
145	77	male	IV
146	60	female	IV
147	57	female	IV A
148	30	male	IV A
149	66	male	IV A
150	63	male	IV A
151	58	female	IV A
152	54	male	IV A
153	57	female	IV A
154	53	female	IV A
155	65	female	IV A
156	65	male	IV A
157	64	female	IV A
158	68	male	IV A
159	72	female	IV A
160	60	male	IV A
161	59	male	IV A
162	45	female	IV A
163	32	female	IV B
164	63	male	IV B
165	52	male	IV B
166	72	female	IV B
167	55	male	IV B
168	55	male	IV B
169	64	male	IV B
170	60	female	IV B
171	63	male	IV B
172	57	male	IV B

142	male	54
143	male	59
144	female	67
145	male	65
146	male	54
147	female	59
148	male	35
149	male	57
150	male	58
151	female	64
152	female	56
153	male	62
154	female	61
155	female	66
156	female	79
157	male	56
158	male	65
159	male	59
160	female	58
161	male	62
162	female	55
163	female	27
164	male	65
165	male	52
166	female	69
167	male	59
168	female	63
169	male	83
170	female	56
171	female	59
172	male	57

B. Serum samples in study of miRNA biomarker confirmation collected from Cancer Center of Guangzhou Medical University (Guangzhou, China).

patients with colorectal cancer

number	age	gender	TNM
1	42	female	I
2	63	female	I
3	55	male	I
4	43	male	I
5	51	male	I
6	72	female	I
7	30	female	II
8	26	female	II
9	58	female	II A
10	67	female	II A
11	35	female	II A

patients from Rectum Department but without colorectal cancer

number	age	gender
1	46	female
2	49	female
3	47	male
4	37	male
5	53	female
6	39	male
7	34	female
8	39	female
9	51	female
10	39	female
11	54	female

12	57	male	II A
13	52	male	II A
14	43	female	II B
15	61	male	II B
16	71	female	II B
17	67	male	II B
18	39	female	II B
19	44	male	II B
20	47	male	II B
21	38	female	II C
22	50	male	III B
23	60	female	III B
24	56	male	III B
25	51	female	III B
26	42	male	III C
27	45	male	III C
28	53	male	III C
29	69	female	III C
30	60	male	III C
31	61	male	III C
32	62	male	III C
33	57	female	IV
34	57	male	IV
35	63	male	IV
36	56	female	IV B

12	54	female
13	41	female
14	44	female
15	53	female
16	37	male
17	38	male
18	35	female
19	33	female
20	36	male
21	36	male
22	34	male
23	44	female
24	44	female
25	44	female
26	45	female
27	46	male
28	44	male
29	45	male
30	41	male
31	48	female
32	46	female
33	49	female
34	34	female
35	57	male
36	50	male

C. Samples in test of plasma vs. serum collected from Shenzhen People's Hospital (Shenzhen, China).
healthy

number	gender	age
1	male	46
2	male	42
3	female	40
4	female	43
5	female	28
6	male	46
7	female	53
8	female	46
9	male	57
10	female	52