SUPPLMENTARY MATERIAL FOR THE ARTICLE

ALTERATIONS OF COPY NUMBER OF METHYLATION PATTERN IN MISMATCH REPAIR GENES BY METHYLATION SPECIFIC-MULTIPLEX LIGATION-DEPENDENT PROBE AMPLIFICATION IN CASES OF COLON CANCER

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Supplementary Tables S1 & S2

Suplementary Table S1. Rates of methylation of all genes in a sample of each of the numerical values at the average methylation and copy number percentages were compared to the control groups.

Restriction Area	Gene	C-M[a]	C-CN[b]	C-M/C-CN	%M[c]
[–]	CREM	18493	21303	–	–
[+]	PMS2	16	6001	0.007	0.70
[–]	MLH1	20720	28576	–	–
[+]	PMS2	1268	6023	0.078	7.80
[+]	MSH6	582	6593	0.263	26.30
[+]	MLH1	1556	8999	0.073	7.30
[–]	TNFRSF1A	18938	21625	–	–
[+]	MSH2	108	5624	0.036	3.60
[+]	MGMT	343	4069	0.033	3.30
[+]	MLH1	168	3787	0.075	7.50
[–]	MLH3	12600	13605	–	–
[+]	MSH6	388	8387	0.042	4.20
[+]	MSH3	840	4345	0.175	17.50
[–]	PAH	11468	18777	–	–
[+]	MLH1	288	6289	0.016	1.60
[–]	MSH2	9591	9248	–	–
[–]	BCL2	10933	16696	–	–
[+]	MLH1	132	5016	0.037	3.70
[+]	MSH2	116	3725	0.284	28.40
[+]	MSH3	140	4119	0.583	58.30
[+]	MLH1	53	3772	0.009	0.90
[+]	MSH6	782	5750	0.068	6.80
[–]	CDK6	12027	14654	–	–
[+]	MGMT	1088	17472	0.67	6.70

[+]	PMS2	614	4965	0.052	5.20
[–]	CDH1	8919	11259	–	–
[+]	MSH3	14	2409	0.008	0.80
[+]	MLH3	77	3699	0.011	1.10
[–]	AI651963	9327	9008	–	–
[+]	MGMT	734	3231	0.156	15.60
[–]	NET-7	11657	14541	–	–
[+]	MSH2	232	4229	0.039	3.90

[a] C-M: Control methylation (the average value of the peak area).
[b] C-CN: Control-copy number (the average value of the peak area).
[c] %M: Methylation rate.

Suplementary Table S2. Distribution of the methylated genes in the tumor samples of all cases.

#	Sex-Age	Diagnosis	PMS2	MSH6	MLH1	MSH2	MGMT	MSH3	MLH3
1	M-67	adenocarcinoma	[+]	[+]	[+]	[–]	[+]	[+]	[+]
2	F-71	adenocarcinoma	[+]	[+]	[+]	[+]	[+]	[+]	[+]
3	F-85	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[–]
4	M-51	adenocarcinoma	[+]	[–]	[+]	[–]	[+]	[+]	[–]
5	M-48	adenocarcinoma	[–]	[–]	[+]	[–]	[–]	[–]	[–]
6	M-68	adenocarcinoma	[+]	[+]	[+]	[+]	[+]	[–]	[+]
7	F-84	adenocarcinoma	[+]	[–]	[+]	[–]	[+]	[+]	[+]
8	M-69	adenocarcinoma	[+]	[–]	[+]	[–]	[+]	[+]	[–]
9	F-55	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[+]
10	M-75	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[+]
11	M-75	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[+]
12	F-65	adenocarcinoma	[+]	[+]	[+]	[–]	[+]	[+]	[+]
13	M-60	adenocarcinoma	[+]	[–]	[+]	[–]	[+]	[+]	[+]
14	M-57	adenocarcinoma	[+]	[–]	[+]	[–]	[+]	[+]	[–]
15	F-71	adenocarcinoma	[+]	[–]	[+]	[–]	[–]	[+]	[+]
16	F-75	adenocarcinoma	[–]	[–]	[–]	[–]	[+]	[–]	[+]
17	M-66	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[+]
18	M-56	adenoma	[–]	[+]	[+]	[–]	[+]	[+]	[+]
19	M-56	adenoma	[+]	[+]	[+]	[–]	[+]	[+]	[+]
20	M-64	adenoma	[+]	[+]	[+]	[+]	[+]	[+]	[+]
21	M-64	adenoma	[+]	[+]	[+]	[+]	[+]	[+]	[+]
22	M-62	adenoma	[+]	[+]	[+]	[–]	[+]	[+]	[+]
23	M-62	adenocarcinoma	[+]	[+]	[+]	[–]	[+]	[–]	[+]
24	M-47	adenoma	[+]	[+]	[+]	[+]	[+]	[–]	[+]
25	F-78	adenocarcinoma	[+]	[+]	[+]	[–]	[+]	[+]	[+]
26	M-37	adenoma	[+]	[+]	[+]	[–]	[–]	[+]	[+]
27	M-37	adenoma	[+]	[–]	[+]	[+]	[+]	[+]	[+]
28	F-45	adenocarcinoma	[–]	[–]	[+]	[+]	[+]	[+]	[+]
29	F-45	adenoma	[+]	[+]	[+]	[–]	[+]	[–]	[+]
30	F-45	adenoma	[+]	[+]	[+]	[+]	[+]	[+]	[+]
31	M-35	adenoma	[+]	[+]	[+]	[–]	[+]	[+]	[+]

32	M-35	adenoma	[–]	[+]	[+]	[–]	[+]	[–]	[+]
33	F-63	adenocarcinoma	[+]	[+]	[–]	[–]	[+]	[+]	[+]
34	F-63	adenoma	[+]	[+]	[–]	[–]	[+]	[+]	[+]
35	M-46	adenoma (polyp)	[+]	[–]	[–]	[–]	[–]	[+]	[+]
36	M-46	adenoncarcinoma	[+]	[+]	[+]	[–]	[–]	[+]	[+]
37	M-49	carcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[+]
38	M-49	tubular adenoma	[–]	[+]	[+]	[–]	[–]	[+]	[+]
39	M-49	carcinoma Lenf	[+]	[+]	[+]	[–]	[+]	[–]	[–]
40	M-32	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[+]
41	M-32	adenoma	[+]	[–]	[+]	[–]	[–]	[–]	[–]
42	M-47	adenocarcinoma	[+]	[–]	[–]	[–]	[+]	[+]	[–]
43	M-47	adenocarcinoma	[+]	[+]	[–]	[–]	[–]	[–]	[–]
44	M-47	adenoma	[+]	[–]	[+]	[–]	[+]	[+]	[+]
45	M-64	adenoma	[+]	[–]	[+]	[–]	[+]	[+]	[–]
46	M-64	adenoma	[–]	[–]	[–]	[+]	[+]	[–]	[–]
47	M-47	adenoma	[–]	[+]	[+]	[–]	[+]	[–]	[–]
48	F-52	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[–]
49	F-75	adenocarcinoma	[+]	[+]	[+]	[–]	[–]	[–]	[–]
50	F-72	adenocarcinoma	[+]	[+]	[+]	[–]	[–]	[+]	[+]
51	F-56	adenocarcinoma	[–]	[+]	[+]	[+]	[+]	[+]	[+]
52	F-56	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[+]
53	M-70	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[+]
54	M-57	adenocarcinoma	[+]	[–]	[+]	[–]	[+]	[+]	[+]
55	M-59	adenocarcinoma	[+]	[–]	[+]	[–]	[+]	[+]	[–]
56	M-76	adenocarcinoma	[+]	[–]	[+]	[–]	[–]	[+]	[+]
57	M-60	adenocarcinoma	[–]	[+]	[+]	[+]	[+]	[+]	[+]
58	M-74	adenocarcinoma	[+]	[–]	[+]	[+]	[+]	[–]	[+]
59	M-50	adenocarcinoma	[+]	[+]	[+]	[+]	[+]	[+]	[+]
60	F-54	adenocarcinoma	[+]	[–]	[+]	[–]	[+]	[+]	[+]
61	F-38	adenocarcinoma	[–]	[+]	[+]	[+]	[+]	[+]	[+]
62	F-56	adenocarcinoma	[+]	[+]	[+]	[+]	[+]	[+]	[+]
63	F-58	adenocarcinoma	[+]	[+]	[+]	[+]	[+]	[+]	[+]
64	F-65	adenocarcinoma	[+]	[–]	[+]	[–]	[+]	[+]	[+]
65	F-40	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[–]
66	F-73	adenocarcinoma	[–]	[+]	[+]	[–]	[–]	[+]	[+]
67	F-57	carcinoma	[+]	[+]	[+]	[+]	[+]	[+]	[+]
68	F-57	adenocarcinoma	[–]	[+]	[+]	[–]	[+]	[+]	[–]
69	F-65	adenocarcinoma	[+]	[+]	[+]	[–]	[+]	[–]	[+]
70	F-72	adenocarcinoma	[+]	[–]	[–]	[–]	[+]	[+]	[+]
		methylation + (n)	46/70	47/70	68/70	17/70	58/70	55/70	53/70
		%methylation	65.71	67.14	97.14	24.28	82.85	78.57	75.71