

Table SI. Primers used for reverse transcription-quantitative PCR.

Target gene	Assay ID (Applied Biosystems; Thermo Fisher Scientific, Inc.)
Vascular endothelial growth factor A	Hs00900055
Tumor protein p53	Hs01034249
Transforming growth factor beta 1	Hs00998133
Apelin receptor	Hs00270873
Alpha-smooth muscle actin	Hs00426835
Beta-2-microglobulin	Hs00187842
hsa-miR 5703	472811_mat
Cel-miR-39	000200

Table SII. Antibodies used for western blotting, immunohistochemistry and fluorescent immunostaining.

Antibody	Source	Manufacturer	Cat. no.
p53	Mouse	Santa Cruz Biotechnology, Inc.	sc-126
$\alpha$ -SMA	Rabbit	Abcam	ab5694
CD9	Rabbit	Abcam	ab92726
CD63	Rabbit	Abcam	ab134045
Calnexin	Rabbit	Abcam	ab22595
Alix	Mouse	Abcam	ab117600
EEA-1	Rabbit	Abcam	ab2900
APJ	Rabbit	Abcam	Ab84296
APJ	Rabbit	Thermo Fisher Scientific, Inc.	702069
APJ	Rabbit	Sigma-Aldrich; Merck KGaA	ABD43
Phospho-Smad2(Ser465/467)/Smad3 (Ser423/425)	Rabbit	Cell Signaling Technology	8828
Smad2/3	Rabbit	Cell Signaling Technology, Inc.	3102
$\beta$ -actin	Rabbit	Cell Signaling Technology, Inc.	4970

Table SIII. Clinicopathological characteristics of endoscopic-resected cases.

Sex (Male/female)	11/13
Age, years [median (range)]	67.5 (45-87)
Location (C/A/T/D/S/R)	0/ 7/ 2/ 0/ 7/ 8
tub1/tub1 + tub2/tub2	6/ 18/ 0
Invasion depth (SM/MP)	23/ 1

C, cecum; A, ascending colon; T, transverse colon; D, descending colon; S, sigmoid colon; R, rectum; tub1, well differentiated adenocarcinoma; tub2, moderately differentiated adenocarcinoma; SM, submucosa; MP, muscularis propria.

Table SIV. Relationship between clinicopathological characteristics and p53 status of endoscopic-resected cases.

	p53 negative	p53 positive
Sex (Male/female)	3/ 9	8/ 4
Age, years [median (range)]	66 (45-87)	74.5 (60-87)
Location (C/A/T/D/S/R)	0/ 4/ 2/ 0/ 3/ 3	0/ 3/ 0/ 0/ 4/ 5
tub1/tub1 + tub2/tub2	3/ 9/ 0	2/ 10/ 0
Invasion depth (SM/MP)	12/ 0	11/ 1

C, cecum; A, ascending colon; T, transverse colon; D, descending colon; S, sigmoid colon; R, rectum; tub1, well differentiated adenocarcinoma; tub2, moderately differentiated adenocarcinoma; SM, submucosa; MP, muscularis propria.