

Table SI. Characteristics of the patients (n=75).

Case no.	Histological diagnosis	Grade	Stage (FIGO)
N1	Normal	-	-
N2	Normal	-	-
N3	Normal	-	-
N4	Normal	-	-
N5	Normal	-	-
N6	Normal	-	-
N7	Normal	-	-
N8	Normal	-	-
N9	Normal	-	-
N10	Normal	-	-
N11	Normal	-	-
N12	Normal	-	-
N13	Normal	-	-
N14	Normal	-	-
N15	Normal	-	-
N16	Normal	-	-
N17	Normal	-	-
N18	Normal	-	-
N19	Normal	-	-
N20	Normal	-	-
1	Endometroid adenocarcinoma	G1	IA
2	Endometroid adenocarcinoma	G1	IA
3	Endometroid adenocarcinoma	G1	IA
4	Endometroid adenocarcinoma	G1	IA
5	Endometroid adenocarcinoma	G2	IA
6	Endometroid adenocarcinoma	G1	IIIC2
7	Endometroid adenocarcinoma	G1	II
8	Endometroid adenocarcinoma	G1	II
9	Endometroid adenocarcinoma	G1	IA
10	Endometroid adenocarcinoma	G2	IIIC2
11	Endometroid adenocarcinoma	G3	II
12	Endometroid adenocarcinoma	G2	IA
13	Endometroid adenocarcinoma	G2	IA
14	Endometroid adenocarcinoma	G2	IA
15	Endometroid adenocarcinoma	G3	IIIB
16	Endometroid adenocarcinoma	G2	IB
17	Endometroid adenocarcinoma	G2	IB
18	Endometroid adenocarcinoma	G3	IB
19	Endometroid adenocarcinoma	G2	IB
20	Endometroid adenocarcinoma	G3	IIIC2

21	Endometroid adenocarcinoma	G1	IIIC1
22	Endometroid adenocarcinoma	G3	IA
23	Endometroid adenocarcinoma	G3	IA
24	Endometroid adenocarcinoma	G1	II
25	Endometroid adenocarcinoma	G3	IB
26	Endometroid adenocarcinoma	G2	IIIC2
27	Endometroid adenocarcinoma	G1	IA
28	Endometroid adenocarcinoma	G3	IB
29	Endometroid adenocarcinoma	G1	IB
30	Endometroid adenocarcinoma	G3	IIIC1
31	Endometroid adenocarcinoma	G3	IB
32	Endometroid adenocarcinoma	G1	IIIC2
33	Endometroid adenocarcinoma	G1	IIIC1
34	Endometroid adenocarcinoma	G3	IIIC2
35	Endometroid adenocarcinoma	G3	IIIC2
36	Endometroid adenocarcinoma	G1	IIIC2
37	Endometroid adenocarcinoma	G3	IA
38	Serous adenocarcinoma	-	IIIB
39	Endometroid adenocarcinoma	G2	IA
40	Endometroid adenocarcinoma	G3	IIIC2
41	Endometroid adenocarcinoma	G1	IVB
42	Endometroid adenocarcinoma	G3	IIIC2
43	Endometroid adenocarcinoma	G1	IVB
44	Endometroid adenocarcinoma	G1	IA
45	Endometroid adenocarcinoma	G1	II
46	Endometroid adenocarcinoma	G2	IA
47	Endometroid adenocarcinoma	G2	II
48	Endometroid adenocarcinoma	G2	II
49	Endometroid adenocarcinoma	G1	IIIC1
50	Endometroid adenocarcinoma	G3	IB
51	Endometroid adenocarcinoma	G3	IVB
52	Endometroid adenocarcinoma	G2	IIIC1
53	Serous adenocarcinoma	-	I B
54	Endometroid adenocarcinoma	G1	IIIB
55	Serous adenocarcinoma	-	IVB

The samples from patients No. 1 to No. 52, N1 to N4, and N17 to N20 were used for mRNA extraction, and the thin section samples were prepared from patients No. 1 to No. 55 and N5 to N16. Clinical samples used in additional experiments are highlighted in bold font. FIGO, The International Federation of Gynecology and Obstetrics.

Table SII. Primer sequences used for RT-qPCR.

Gene	Forward (5' to 3')	Reverse (5' to 3')
PRMT6	AGTTCCGAAGGATACC CAGG	ACGAGTGCTACTCGGACGTT
β -actin	CACACTGTGCCCATCTACGA	CTCCTTAATGTCACGCACGA
PRDM1	TACATACCAAAGGGCACACG	GATTCACATAGCGCATCCAG
NFATC1	GCCATCCTCTCCAACACCAA	TGTTCTTCTCCCGATGTCC
EBF2	GGCTTCCAGAGACTGCAGA	CTGCAGCTCTTTTCAACAGC
SMAD2	CAGTCATCATGAACTCAAGGCA	TTAGGATCTCGGTGTGTCGG
SMAD3	GGCTGCTCTCCAATGTCAAC	ACCTCCCCTCCGATGTAGTA
SMAD4	ACAGGACAGAAGCCATTGAGA	ACTAAGGCACCTGACCCAAA
NODAL	TTTCATCCGACCAACCATGC	CTTCACTGGGGCACAACAAG
NKX6-1	GCTCGTTTGGCCTATTCGTT	GTCTCCGAGTCCTGCTTCTT
PIK3R1	AGCTGAAAACCTGTTGCGAG	ACAATGCTTTACTTCGCCGT
ERV-Fc1	TTTCCCACCGCTGGTAATAG	AGGCTAAGGATTCGGCTGAG
envW	CCCCATCGTATAGGAGTCTT	CCCCATCAGACATACCAGTT
HML-3	CTGCAGCCTGCTAAGCG	CACTGTGAAAATTTTTTACGAG
ERV-H	CACAGACAGCCCCCATTACT	GGGAGAGCACGTGTGTTTTT
RGH2	CGCCACACTTCAATCTCTCC	CGTGGTCTGACACCTCTGAA
HW08822	GGTTCGTGCTAATTGAGCTG	ATGGTGGCAAGCTTCTTGTT
HW22795	CCGCTCCTGATTGGACTAAA	CGTGGGTCAAGGAAGAGAAC
HW38223	TGAGCTTTCCCTCACTGTCC	TGTTCCGGCTTGATTAGGATG

RT-qPCR, reverse transcription-quantitative polymerase chain reaction; PRMT6, protein arginine methyltransferase 6; ACTB, actin beta; PRDM1, PR/set domain 1; NFATC1, nuclear factor of activated T-Cells 1; EBF2, EBF transcription factor 2; NODAL, nodal growth differentiation factor; NKX6-1, NK6 homeobox 1; PIK3R1, phosphoinositide-3-kinase regulatory subunit 1.