

Table S1 Sequences used in this study

siRNAs			Sequences
<i>CENPK</i> siRNA	1	Sense	5' GCUGCUGCGUAAUGGAAUU dTdT 3'
		Antisense	3' dTdT CGACGACGCAUUACCUUAA 5'
	2	Sense	5' GGAACAACGGUGGUUGGAU dTdT 3'
		Antisense	3' dTdT CCUUGUUGCCACCAACCUA 5'
<i>SOX6</i> siRNA	1	Sense	5' CCACCCACAAAUUAACCAA dTdT 3'
		Antisense	3' dTdT GGUGGGUGUUUAAUUGGUU 5'
	2	Sense	5' GCCACUCUUACAACCACAA dTdT 3'
		Antisense	3' dTdT CGGUGAGAAUGUUGGUGUU 5'
<i>p53</i> siRNA	1	Sense	5' GACUCCAGUGGUAUUCUAC dTdT 3'
		Antisense	3' dTdT CUGAGGUCACCAUUAGAUG 5'
	2	Sense	5' CUACUCCUGAAAACAACG dTdT 3'
		Antisense	3' dTdT GAUGAAGGACUUUUGUUGC 5'
<i>ZC3H13</i> siRNA	1	Sense	5' GAGAGAGCUCCUAUGUUCU dTdT 3'
		Antisense	3' dTdT CUCUCUCGAGGAUACAAGA 5'
	2	Sense	5' GCUCCUAUGUUCUACACCU dTdT 3'
		Antisense	3' dTdT CGAGGAUACAAGAUGUGGA 5'
Negative control	Sense	5' UUCUCCGAACGUGUCACGU dTdT 3'	
	Antisense	3' dTdT AAGAGGCUUGCACAGUGCA 5'	

Table S2 A list of antibodies used for ChIP, Co-IP, IF, IHC, and WB

Antibody	Cat. No	Company	Species	Dulution
Flag	F7425	Sigma	Rabbit	1:1000 (WB); 1:20 (Co-IP)
CENPK	ab236739	Abcam	Rabbit	1:1000 (WB); 1:20 (Co-IP); 1:100 (IF); 1:100 (IHC)
ZC3H13	ab70802	Abcam	Rabbit	1:2000 (WB)
Ki67	ab16667	Abcam	Rabbit	1:100 (IHC)
SOX6	ab243576	Abcam	Mouse	1:100 (IF)
γ -H2AX	ab11174	Abcam	Rabbit	1:500 (IF)
SOX6	ab125196	Abcam	Rabbit	1:1000 (WB); 1:20 (Co-IP)
SOX6	PA5-34616	Invitrogen	Rabbit	1:50 (ChIP)
β -catenin	8480	CST	Rabbit	1:1000 (WB); 1:100 (IF)
c-Jun	19807	CST	Rabbit	1:1000 (WB)
CD44	3570	CST	Mouse	1:1000 (IF)
CD133	18470-1-AP	Proteintech	Rabbit	1:1000 (IF)
c-Myc	10828-1-AP	Proteintech	Rabbit	1:1000 (WB)
CCND1	60186-1-Ig	Proteintech	Mouse	1:1000 (WB)
p53	10442-1-AP	Proteintech	Rabbit	1:1000 (WB)
p21	10355-1-AP	Proteintech	Rabbit	1:1000 (WB)
Vimentin	10366-1-AP	Proteintech	Rabbit	1:1000 (WB)
Ubiquitin	10201-2-AP	Proteintech	Rabbit	1:1000 (WB)
GAPDH	60004-1-Ig	Proteintech	Mouse	1:5000 (WB)
Histone	17168-1-AP	Proteintech	Rabbit	1:1000 (WB)
β -actin	60008-1-Ig	Proteintech	Mouse	1:5000 (WB)

ChIP chromatin immunoprecipitation, *IF* immunofluorescence, *IHC* immunohistochemistry, *Co-IP* co-immunoprecipitation, *WB* western blotting

Table S3 Correlation between CENPK expression and the clinicopathological characteristics of cervical cancer patients

Characteristics	CENPK expression [n(%)]		<i>P</i>
	Low	High	
Age (years)			0.427
≤ Median (<i>n</i> = 58)	27 (46.6)	31 (53.4)	
> Median (<i>n</i> = 61)	24 (39.3)	37 (60.7)	
pT classification			0.384
T ₁ -T ₂ (<i>n</i> = 96)	43 (44.8)	53 (55.2)	
T ₃ -T ₄ (<i>n</i> = 23)	8 (34.8)	15 (65.2)	
pN classification			0.247
N ₀ (<i>n</i> = 97)	44 (45.4)	53 (54.6)	
N ₁ (<i>n</i> = 22)	7 (31.8)	15 (68.2)	
Distant metastasis			
No (<i>n</i> = 119)	51 (42.9)	68 (57.1)	
Yes (<i>n</i> = 0)	0 (0)	0 (0)	
Recurrence			0.008
No (<i>n</i> = 80)	41 (51.2)	39 (48.8)	
Yes (<i>n</i> = 39)	10 (25.6)	29 (74.4)	
Histology grade			0.670
I-II (<i>n</i> = 27)	12 (44.4)	15 (55.6)	
III (<i>n</i> = 73)	29 (39.7)	44 (60.3)	
Ki67 status			< 0.001
Low expression (<i>n</i> = 56)	33 (58.9)	23 (41.1)	
High expression (<i>n</i> = 41)	8 (19.5)	33 (80.5)	