

**Additional file 1: Table S1:** circWHSC1 expression in normal ovary and ovarian carcinoma tissues

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<b>Groups</b>	<b>N</b>	<b>circ WHSC1 expression / 18s</b>	<b><i>P</i> value</b>
Normal ovary	13	1.65E-06 ±4.73E-07	<b><i>0.0184</i></b>
Ovarian carcinoma	79	3.59E-06 ±8.55E-07	

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Bold and Italics means  $P < 0.05$ .

**Additional file 1: Table S2:** Correlation of circWHSC1 expression with different clinicopathological features of ovarian carcinoma

Clinicopathological features	N	circWHSC1 expression / 18s	<i>P</i> value
<b>The pathology types</b>			0.357
Serouscarcinoma	58	3.34E-06 ±6.19E-06	
The other pathology types	21	4.26E-06 ±1.07E-05	
<b>Age</b>			0.340
≤52	39	3.23E-06 ±5.97E-06	
> 52	40	3.94E-06 ±8.97E-06	
<b>FIGO stages</b>			0.330
I-II	28	4.18E-06 ±1.01E-05	
III-IV	51	3.26E-06 ±5.88E-06	
<b>Pathology classification</b>			<b><i>0.001</i></b>
Well	12	7.07E-07±7.58E-07	
Mod +Poor	67	4.10E-06±8.15E-06	

Bold and Italics means  $P < 0.05$ .

**Additional file 1: Table S3:** The sequence of circWHSC1 is

TGTTCTAAGAACGGAAGCATCTGGGCTGGATGGAATTTAGCATCAAGCAGAGTCCCC  
TTTCTGTTTCAGAGTGTGTAAAGTGCATAAAGATGAAGCAGGCACCAGAAATCCTCG  
GCAGTGCCAACGGGAAGACTCCGAGCTGCGAGGTGAACCGCGAGTGTTCTGTGTTCC  
TCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGGGTCATGCAGAAGTTTAACG  
GCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG  
TGTTTAATGGAGAACC CGGCGCACACGATGCCAAACTGCGTTTTTGAGTCCCAGGAAA  
TGAAAGGGATTGGGACACCCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAA  
TTAAGCTGAAAATCACAAAACATACATGAATGGGAAGCCTCTCTTTGAATCTTCCA  
TTTGTGGTGACAGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAACCAG  
AAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGC  
AGGGCCTTGTGCGAAGCAGCTCTTGTGTCTAAGATCTCAAGTCCTTCAGATAAAAAGA  
TTCCAGCTAAGAAAGAGTCTTGTCCAAACACTGGAAGAGACAAAGACCACCTGTTGA  
AATAACAACGTTGGTGATTTGGTGTGGTCCAAAGTGTGGGTTACCCTTGGTGGCCTT  
GCATGGTTTTCTGCAGATCCACTCCTTCACAGCTATAACCAAACCTTAAAGGTCAGAAAA  
AGAGTGCACGCCAGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGGAA  
TATTTGAGAAGAGCCTCGTAGCTTTTGAAGGAGAAGGACAGTTTTGAAAAATTATGCC  
AGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTATTGAAACCAA  
TTTCAGGGAAATTGAGGGCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTG  
CAAGCATGTCAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACC  
AGCTTCATCTCAACCTCAAGTAGCCAAGGAGGCTGGCATTGCTGCAGAGTCTTTGG  
GAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAAACCCCAAGTCTG  
TGAGAGAAGAGTGCAATCCCATGAAGAGAAGGCGGAGGGCCAAACTGTGTAGCTCTG  
CAGAGACCTGGAGAGTCACCCCGACATAGGGAAGAGTACTCCTCAAAGACGGCAG  
AGGCTGACCCAGAAAGAGGAGTAGGGTCTCCTCCTGGGAGGAAGAAGACCACAGTCT  
CCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTTTTGGTCTTCTGTCAAA  
AACACAGGGATGAGGTGGTAGCTGAGCACCCAGATGCTTCAGGTGAGGAGATTGAAG  
AGCTGCTCAGGTACAGTGGAGTCTGCTGAGTGAAGAAGCAGAGAGCACGCTACAACA  
CCAAGTTTGCCCTGGTGGCCCCTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATG  
GGAAAAAAGAAACCACAAAAGAGGATACAGGACCCTACAGAAGATGCTGAAGCTG  
AGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAAG

The sequences of shRNA targeting circWHSC1 are:

Top strand:

GATCCGAGTCTTCGGAAGTGTCTAAGAACTTCAAGAGAGTTCTTAGAAC  
ACTTCCGAAGACTTTTTTTC

Bottom strand:

AATTGAAAAAAGTCTTCGGAAGTGTCTAAGAACTCTCTTGAAGTTCTTA  
GAACACTTCCGAAGACTCG

The sequences of probe against circWHSC1 are:

CAGAUGCUUCCGUUCUAGAACACUCCGAAGACUGUG