

Supplementary Table 1. *TP53* sequencing primer sequences

Exon5	TTCAACTCTGTCTCCTTCCT	CAGCCCTGTCGTCTCTCCAG
Exon6	GCCTCTGATTCCTCACTGAT	TTAACCCCTCCTCCCAGAGA
Exon7	CTTGCCACAGGTCTCCCAA	AGGGGTCAGAGGCAAGCAGA
Exon8	TTCCTTACTGCCTCTTGCTT	AGGCATAACTGCACCCTTGG

Supplementary Table 2. Primer sequences used in the study

Gene	Forward	Reverse
P53	GCTCGACGCTAGGATCTGAC	GCTTTCCACGACGGTGAC
Twist1	GTCATGGCCAACGTGCGGGA	GCCGCCAGCTTGAGGGTCTG
Mdm2	TGGTGAGGAGCAGGCAAATGTGC	ACCAGGGTCTCTTGTTCCGAAGC
Foxc2	GTCGAGTTCTCAATCCCCAG	GCCTCCTGGTATCTCAACCA
Zeb1	TGCAGTTTGTCTTCATCATCTG	CCAGGTGTAAGCGCAGAAA
Zeb2	CAATACCGTCATCCTCAGCA	CCAATCCCAGGAGGAAAAAC
Vimentin	ATTCCACTTTGCGTTCAAGG	CTTCAGAGAGAGGAAGCCGA
Snail	CTCTAGGCCCTGGCTGCTAC	TCTGAGTGGGTCTGGAGGTG
Slug	TGACCTGTCTGCAAATGCTC	CAGACCCTGGTTGCTTCAA
Pirh2	ACACTTGTGTCTTCCTTGAAGATT	CACTGTGAAAACCTGTGGAATTTG

Supplementary Table 3. Peritoneal tumor samples

<b>Patient Number</b>	<b>Histology</b>	<b>TP53 status</b>
1	Serous adenocarcinoma with minor endometroid component	WT
2	Poorly differentiated ovarian serous papillary carcinoma	M237L
3	Endometroid carcinoma	WT
4	Clear cell ovarian carcinoma	S240T
5	Poorly differentiated serous papillary carcinoma	WT
6	Ovarian undifferentiated serous carcinoma	S241F
7	Mixed adenocarcinoma, endometroid, clear cell, signet ring cell carcinoma.	WT
8	Malignant mixed mullerian tumor of the uterus	WT
9	Intraperitoneal carcinoma	WT
10	Poorly differentiated transitional cell carcinoma	WT
11	Ovarian papillary serous adenocarcinoma	WT
12	Intraperitoneal carcinoma	WT
13	Moderately differentiated ovarian serous adenocarcinoma	WT
14	Borderline ovarian cancer	WT
15	Serous/clear cell carcinoma	WT
16	Peritoneal serous papillary carcinoma	R283C
17	Ovarian fibrothecoma	WT
18	Intraperitoneal carcinoma	WT
19	Fallopian tube carcinoma	S241F
20	Intraperitoneal carcinoma	WT
21	Metastases of invasive lobular carcinoma	WT
22	Fallopian tube serous carcinoma	WT
23	Ovarian serous papillary carcinoma	WT
24	Malignant mixed mullerian tumor of the uterus	WT
25	Ovarian undifferentiated serous carcinoma	WT

Supplementary Table 4. Sequencing result of R182 cell line.

Cell line	Sequencing method	Result
p53-high/ Twist1- cell line	full length cDNA	<p>atggaggagccgcagtcagatcctagcgtcgagccccctctgagtcaggaaacattttcagacctatgaaactacttctct  atggaggagccgcagtcagatcctagcgtcgagccccctctgagtcaggaaacattttcagacctatgaaactacttctct  gaaaacaacgttctgtcccccttggcgtccaagcaatggatgattgatgctgtccccggacgatattgaacaatggttac  gaaaacaacgttctgtcccccttggcgtccaagcaatggatgattgatgctgtccccggacgatattgaacaatggttac  tgaagaccagggtccagatgaagctcccagaatgccagaggctgtcccccggtggccccctgcaccagcagctcctac  accggcgccccctgcaccagccccctctggccccctgcatcttctgtccctcccagaaaactaccagggcagctacgg  accggcgccccctgcaccagccccctctggccccctgcatcttctgtccctcccagaaaactaccagggcagctacgg  ttccgtctgggttctgtcattctgggacagcaagtctgtgactgacgactccctgcctcaacaagatgtttccaac  ttccgtctgggttctgtcattctgggacagcaagtctgtgactgacgactccctgcctcaacaagatgtttccaac  tggccaagacctgccccctgtcagctgtgggtgatctacacccccgccggcaccggcgtccgccccatggccatctac  aagcagtcacagcagcatgacggaggtgtgaggcgctgccccaccatgagcgtgctcagatagcagtggtctggccc  aagcagtcacagcagcatgacggaggtgtgaggcgctgccccaccatgagcgtgctcagatagcagtggtctggccc  ctcctcagcatctatccgagtggaaggaaatttgcgtgtggagtattggatgacagaaaacttttcagatagtggtgg  ctcctcagcatctatccgagtggaaggaaatttgcgtgtggagtattggatgacagaaaacttttcagatagtggtgg  tgcctatgagccgctgaggttggctctgactgtaccaccatccactacaactacatgtgtaacagttctgcatggcg  tgcctatgagccgctgaggttggctctgactgtaccaccatccactacaactacatgtgtaacagttctgcatggcg  catgaaccggaggccccatcctaccatcatcacactggaagactccagtggaatctactgggacggaacagcttgagg  catgaaccggaggccccatcctaccatcatcacactggaagactccagtggaatctactgggacggaacagcttgagg  tgcgtgttctgctgtcctgggagagaccggcgcacagaggaagagaatctccgaagaaaggggagcctcaccag  tgcgtgttctgctgtcctgggagagaccggcgcacagaggaagagaatctccgaagaaaggggagcctcaccag  agctgccccaggaggactaagcgagcactgccaacaacaccagctcctcctcccagccaagaagaaccact  agctgccccaggaggactaagcgagcactgccaacaacaccagctcctcctcccagccaagaagaaccact  ggatggagaatatttaccctcagatccgtggcgctgagcgttcgagatgtccgagagctgaatgaggccttgaactc  ggatggagaatatttaccctcagatccgtggcgctgagcgttcgagatgtccgagagctgaatgaggccttgaactc  aaggatgccagggctgggaaggagccaggggggagcagggctcactccagccacctgaagtcaaaaaagggcagt  aaggatgccagggctgggaaggagccaggggggagcagggctcactccagccacctgaagtcaaaaaagggcagt  ctacctccgcataaaaaactcatgttcaagacagaagggcctgactcagactga  ctacctccgcataaaaaactcatgttcaagacagaagggcctgactcagactga</p>
	Exon 5	<p>actccccctcccaacaagatgtttggcaactggccaagacctgccccctgagcgtgtgggtgattccacacccccgcc  actccccctcccaacaagatgtttggcaactggccaagacctgccccctgagcgtgtgggtgattccacacccccgcc  cggcaccggcgctccgccccatggccatctacaagcagtcacagcagatgacggaggttggagggcgtgccccacca  cggcaccggcgctccgccccatggccatctacaagcagtcacagcagatgacggaggttggagggcgtgccccacca  tgagcgtgctcagatagcagtg  tgagcgtgctcagatagcagtg</p>
	Exon 6	<p>gtctggccccctcctcagcatctatccgagtggaaggaaatttgcgtgtggagtattggatgacagaaaacttttcagata  gtctggccccctcctcagcatctatccgagtggaaggaaatttgcgtgtggagtattggatgacagaaaacttttcagata  gtgtgggtggcctatgagccgctgag  gtgtgggtggcctatgagccgctgag</p>
	Exon 7	<p>gggtgctctgactgtaccaccatccactacaactacatgtgtaacagttcctgcatgggccccatgaaccggaggccccat  gggtgctctgactgtaccaccatccactacaactacatgtgtaacagttcctgcatgggccccatgaaccggaggccccat  cctcaccatca tcacactggaagactccagg  cctcaccatca tcacactggaagactccagg</p>
	Exon 8	<p>tggtaatctactgggacggaacagcttggaggtgcgtgttggctgtcctgggagagaccggcgcacagaggaagaga  tggtaatctactgggacggaacagcttggaggtgcgtgttggctgtcctgggagagaccggcgcacagaggaagaga  atctccgc aagaaaggggagcctcaccagagctgccccaggagcactaagcgaggt  atctccgc aagaaaggggagcctcaccagagctgccccaggagcactaagcgaggt</p>

Note: Sequencing results (black) are compared to the reference wild-type p53 sequence (blue). The codon 149 (red) is TCT, which encodes the same amino acid (serine) as the reference sequence (TCC).