

Upregulation of the lncRNA Meg3 induces autophagy to inhibit tumorigenesis and progression of epithelial ovarian carcinoma by regulating activity of ATG3

SUPPLEMENTARY TABLES

Supplementary Table 1: LncRNA MEG3 expression in normal ovary and ovarian carcinoma tissues

Groups	N	LncRNA MEG3 expression / 18s	P value
Normal Ovary	8	0.0106 ± 0.0124	<i>4.55E-05</i>
Benign tumors	17	0.0062 ± 0.0069	<i>0.002</i>
Borderline tumors	6	0.0041 ± 0.0096	0.183
Ovarian carcinoma	95	0.0022 ± 0.0048	
Metastatic omentum tissues	25	0.0007 ± 0.0016	0.071

Bold and Italics means $P < 0.05$.

Supplementary Table 2: Correlation of LncRNA MEG3 expression with different clinicopathological features of ovarian carcinoma

Clinicopathological features	N	LncRNA TDRG1 expression / 18s	<i>P</i> value
The pathology types			0.100
Serous carcinoma	74	0.0018 ± 0.0046	
The other pathology types	21	0.0034 ± 0.0053	
Age			0.288
≤ 53	47	0.0025 ± 0.0053	
> 53	48	0.0019 ± 0.0043	
FIGO stages			<i>0.030</i>
I-II	40	0.0033 ± 0.0051	
III-IV	55	0.0014 ± 0.0044	
Pathology classification			0.331
Well	28	0.0025 ± 0.0045	
Mod + Poor	67	0.0020 ± 0.0049	

Bold and Italics means $P < 0.05$.

Supplementary Table 3: Primers for RT-PCR

Gene	Primer sequence	Product size (bp)	Extension time (sec)
<i>MEG3</i>	F: 5'- TGCTTCCTGACTCGCTCTA-3' R: 5'- CTTCCATCCGCAGTTCTT-3'	234	34
<i>ATG3</i>	F: 5'-GTCCACCACTGTCCAA-3' R: 5'-GCTTCCGTTATTCCTG-3'	227	34
<i>ATG7</i>	F: 5'- GAACAAGCAGCAAATGA-3' R: 5'- GACAGAGGGCAGGATAG-3'	148	34
<i>LC3</i>	F: 5'- TCGCCGACCGCTGTAA-3' R: 5'- AAGCCGTCCTCGTCTTTCT-3'	286	34
<i>SQSTM1</i>	F: 5'- TGGAGCACGGAGGGAA-3' R: 5'- TCTGGCATCTGTAGGGACTG-3'	304	34
<i>LAMP1</i>	F: 5'- TGACAAGGCTTCTCAACATC-3' R: 5'- CATTCAATCCCGAACTGG-3'	126	34
<i>18s</i>	F: 5'- GAAACGGCTACCACATCC-3' R: 5'- ACCAGACTTGCCCTCCA-3'	167	34

AT = annealing temperature.