

YMTHE, Volume 27

## **Supplemental Information**

### **MicroRNA-1251-5p Promotes Carcinogenesis and Autophagy via Targeting the Tumor Suppressor TBCC in Ovarian Cancer Cells**

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**Table S1 Primers & shRNA sequences**

Primer Name	Primer Sequences
miR-1251-5p overexpression primer	Forward: CGGGATCCAACCTCCACCCGAGCGTCCAT Reverse: CCGCTCGAGAAGGCAGGCATCTTAACCAC
miR-1251-5p qRT-PCR primer	Forward: ACTCTAGCUGCCAAAGGCGCT
TBCC WT 3'-UTR	Forward: GCTCTAGATGTTCTTCACTCCTACCAAATA Reverse: CGGAATTCGAGTAAGACTCAGTCTCAAAGG
TBCC mut 3'-UTR	Forward: GCCAACACATTGTAATGGGCTCCTACTTGTAATTT Reverse: CCATTACAATGTGTTGGCTTAAAATGCTGAAAACATACACAGTG
TBCC qRT-PCR primer	Forward: CCCCAGCAGTTGAAAGCATA Reverse: TGGGATTTCCATACAGTCTGACC
TBCC shRNA-1	Forward: CCGGGGAAGTTGAAAGGCGGAAACACTCGAGTGTTTCCGCCT TTCAACTTCCTTTTTG Reverse: AATTCAAAAAGGAAGTTGAAAGGCGGAAACACTCGAGTGTTT CCGCCTTTCAACTTCC
TBCC shRNA-2	Forward: CCGGGGCTGCAGAACTAATCAACGCTCGAGCGTTGATTAGTT TCTGCAGCCTTTTTG Reverse: AATTCAAAAAGGCTGCAGAACTAATCAACGCTCGAGCGTTGA TTAGTTTCTGCAGCC
TBCC shRNA-3	Forward: CCGGGAGGAGCGAAATATCCAGTGGCTCGAGCCACTGGATATT TCGCTCCTCTTTTTG Reverse: AATTCAAAAAGAGGAGCGAAATATCCAGTGGCTCGAGCCACTG GATATTCGCTCCTC
TBCC overexpression primer	Forward: GCTCTAGAATGGAGTCCGTCAGTTGCT Reverse: CGGAATTCTTAGTCCCCTGGATATTTTCGC
LC3B qRT-PCR primer	Forward: GATGTCCGACTTATTCGAGAGC Reverse: TTGAGCTGTAAGCGCCTTCTA
p62 qRT-PCR primer	Forward: AAGCCGGGTGGGAATGTTG Reverse: CCTGAACAGTTATCCGACTCCAT
BECN1 qRT-PCR primer	Forward: ACCTCAGCCGAAGACTGAAG Reverse: AACAGCGTTTGTAGTTCTGACA

**HEY**

**SKOV3**

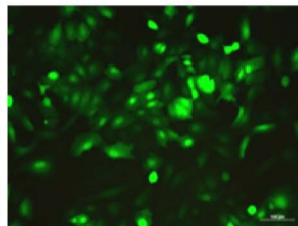
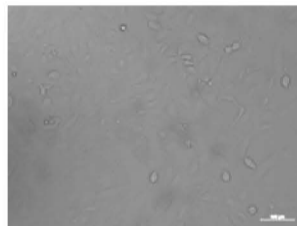
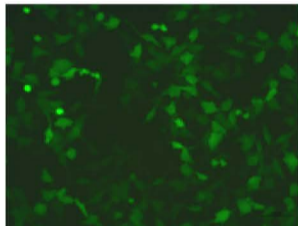
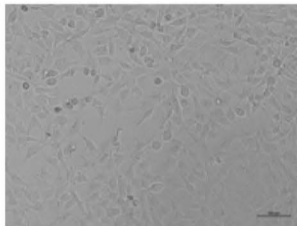
**BF**

**FLU**

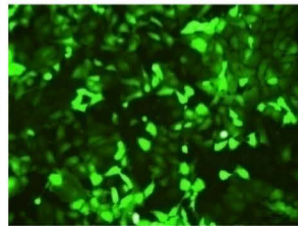
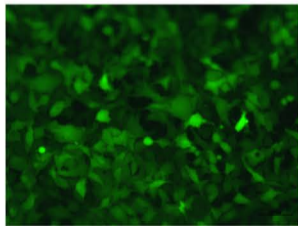
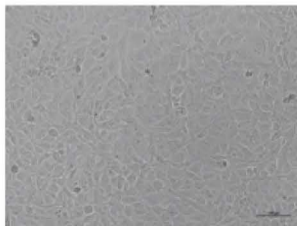
**BF**

**FLU**

**Scramble**

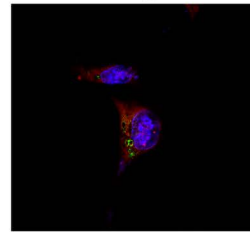
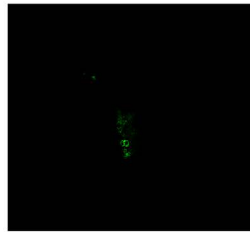
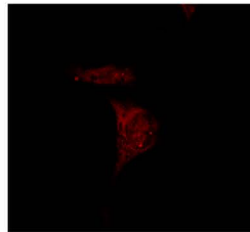
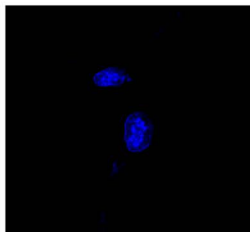


**miR-1251-5p**

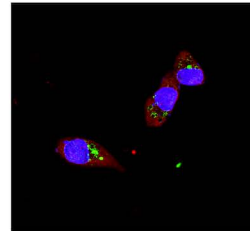
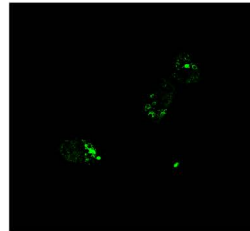
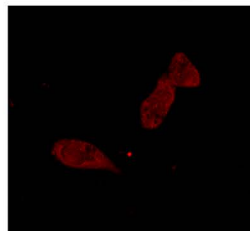
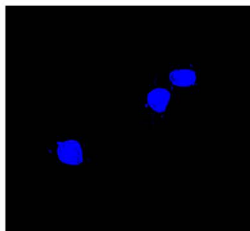


**DAPI****TBCC****LC3B****Merge**

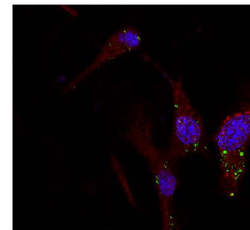
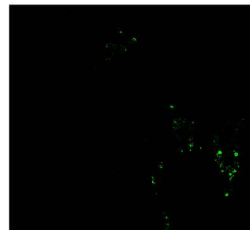
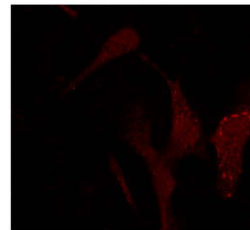
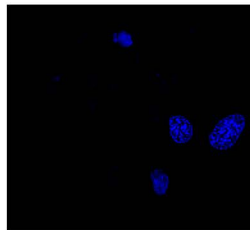
**HEY TBCC+**  
**miR NC+**  
**8h chloroquine**



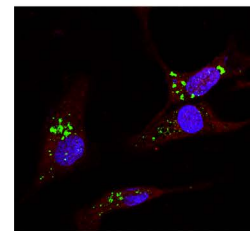
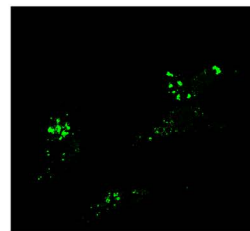
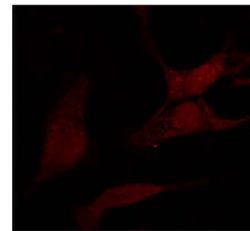
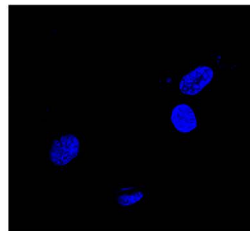
**HEY TBCC+**  
**miR-1251-5p+**  
**8h chloroquine**

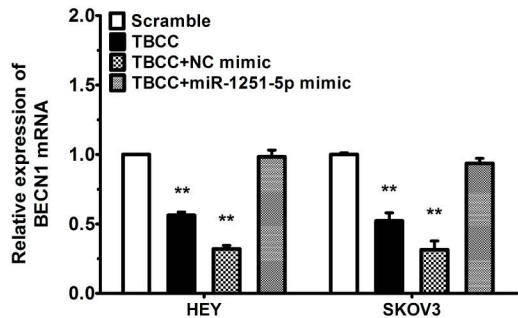
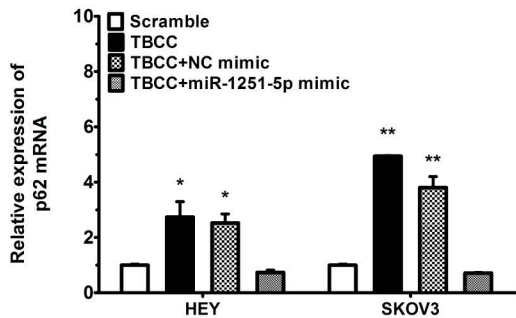
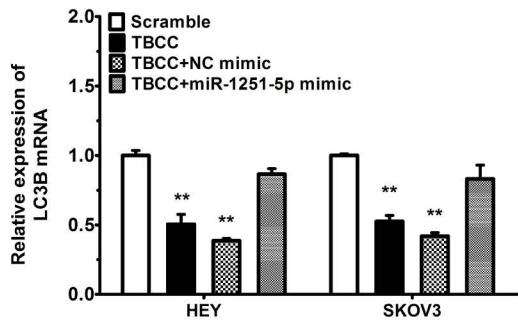
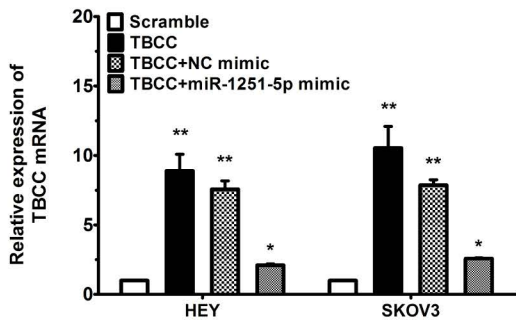


**SKOV3 TBCC+**  
**miR NC+**  
**10h chloroquine**



**SKOV3 TBCC+**  
**miR-1251-5p+**  
**10h chloroquine**





**Supplementary Table S1.** Sequences of all primers and shRNA

**Supplementary Figure S1.** Representative images of pLenti-NC and pLenti-miR-1251-5p GFP-positive HEY and SKOV3 cells are shown.

**Supplementary Figure S2.** Autophagosome formation was monitored via confocal microscope in TBCC stable expression HEY and SKOV3 cells transfected with NC or miR-1251-5p mimic treated with 25  $\mu$ M chloroquine for 8 h and 10 h respectively.

**Supplementary Figure S3.** The mRNA levels of TBCC, LC3B, p62 and BECN1 detected by using qRT-PCR.