

SUPPLEMENTARY TABLES

Supplementary Table 1. The primers of RT-PCR.

| Gene | Primer (5'-3') |
|--------------|-------------------------|
| circMRE11A-F | CCCGTAGCAGGAACTCAAAG |
| circMRE11A-R | CAGCACTAAAGGCAGAAGCA |
| MRE11A F | CTTGTACGACTGCGAGTGGA |
| MRE11A-R | TTCACCCATCCCTCTTTCTG |
| ATM-F | AGGCTGGAGTGTGGTGGTGAG |
| ATM-R | TGTGATGGCTTGTGTCTGTGGTC |
| p53-F | ATGGAGGAGCCGCAGTCAGAT |
| p53-R | GCAGCGCCTCACAACCTCCGTC |
| p21-F | TGTCCGTCAGAACCCATGC |
| p21-R | AAAGTCGAAGTTCATCGCTC |

Supplementary Table 2. The sequence of bioth-probes.

| Probe | Sequence (5'-3') |
|------------------------|--|
| Bioth-probe-circMRE11A | TCTGGCCCTGGTCATAGCCATCTATAATAGACATATTCT |
| Bioth-probe-NC | TCTGGCCCTGGTCATAGCCGCTGTAATCCCAGCACTTG |
| Bioth-probe-18SRNA | TTACCGCGGCTGCTGGCACCAGACTTGCCCTCCAATGGATCCTCGTTAAAGGATTTAAAGTGGA |

Supplementary Table 3. The primers of overexpressed vectors and siRNAs.

| Gene | Primer (5'-3') |
|--------------------|-----------------------|
| h-circMRE11A-F | AGCATCGAGAGGAGGGTCTC |
| h-circMRE11A-R | AGTCATTAGCCATCTGTTC |
| h-GAPDH-F | GCTGAGAACGGGAAGCTTGT |
| h-GAPDH-R | GACTCCACGACGTAICTCAGC |
| siRNA-NC | TTCTCCGAACGTGTCACGT |
| si-h-circMRE11A_01 | ATTATAGATGGCTATGACC |
| si-h-circMRE11A_02 | TATAGATGGCTATGACCAG |
| si-h-circMRE11A_03 | TAGATGGCTATGACCAGGG |

Supplementary Table 4. List of antibodies.

| Used | Antibodies | Source and identifier | Concentration (dilution) |
|----------------|----------------------------------|------------------------------|---------------------------------|
| Western | Mouse-Anti-ATM | GTX70103 (2C1), GeneTex | 1/2000 |
| Blot | Anti-ATM (phospho S1981) | Abcam, ab81292, | 1/10000 |
| | Mouse-MRE11 | GeneTex, 12D7, GTX70212 | 1/2000 |
| | Rabbit-Anti-p53 | Abcam, ab131442 | 1/1000 |
| | Rabbit-Anti-p21 | Abcam, ab109520 | 1/5000 |
| | Rabbit-Anti-GADPH | Abclonal, AC001 | 1/10000 |
| | Rabbit-Anti-RNF10 | Abcam, ab160716 | 1/2000 |
| | Rabbit-Anti-UBXN1 | Abcam, ab151723 | 1/2000 |
| | Rabbit-Anti-Argonaute-2 antibody | Abcam, ab32381 | 1/2000 |
| | Mouse-Anti- α -Tubulin | Sigma, T6199, CB84669834 | 1/10000 |
| | IF | Rabbit-Anti-p21 | Abcam, ab109520 |
| Mouse-Anti-p53 | | Abcam, ab1101 | 1/200 |
| IP | Rabbit-Anti-ATM | Abcam, ab199726 | 5ug/ml |
| | Mouse-Anti-IgG | Santa cruz, SC-2025 | 5ug/ml |