**Supplementary file 1.** List of primers used in this study.

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| **Primer name** | **Sequence (5'-3')** |
| S1-F | CCTTTCCATATGTCTGCAAACCAGGAGG |
| S1-R | CCTGGACGAATTCTCAGGCCGTAGCACC |
| S2-F | GATAATAAAGTCATATGTCTGCTACTCCG |
| S2-R | CCATTAAAATAAGAATTCCTAAAAGCAGAAGAGC |
| S3-F | GATAAAAGGACATATGTCTAACCCTCAAGATG |
| S3-R | CCAAATTATGAATTCTTAAAGCCCATTATGATGG |
| SUMO3–F(GATE) | GGGGACAAGTTTGTACAAAAAAGCAGGCTTCATGTCTAACCCTCAAGATGACAAGCC |
| SUMO3–R(GATE) | GGGGACCACTTTGTACAAGAAAGCTGGGTCCTAAAGCCCATTATGATGGAAAAGC |
| TOC159S3F | GCCACTGGGGTCCGACTCGAGGACCAAATAGC |
| TOC159S3R | GCTATTTGGTCCTCGAGTCGGACCCCAGTGGC |
| TOC159 INT | GAATAGGGTTTTAATCGGAAG |
| TOC159 A3R | TGCCACATCAACATGCACTG |
| LB5 | GATGCAATCGATATCAGCCAATTTTAGAC |