Supplementary materials

Supplementary figure 1. Real-time PCR standard curve of Twinkle mRNA.

Supplementary figure 2. Transient EtBr treatment: effect on (A) mtDNA copy number determined by QPCR and (B) nucleoid fluorescence intensity by PicoGreen stain .

Supplementary figure 3. Twinkle RNAi effect on mitochondrial nucleoid signal 96 hours after transfection. (A) Untreated control cells and (B) cells transfected with 10 nM dsRNA 1473 were stained with PicoGreen after 96 hours.

Supplementary figure 4. Twinkle RNAi does not have an effect on a non-target gene also involved in mtDNA metabolism (POLG1). Real-time PCR analysis of POLG mRNA.

Supplementary figure 5. RNAi of a different target gene (Tim17a) does not have an effect on Twinkle. Real-time PCR analysis of Twinkle mRNA.

Supplementary figure 6. Tim17a RNAi produced a decrease in the target message. Real-time PCR analysis of Tim17a mRNA.

Supplementary table I. Sequences of the oligos used in the study.