**Supporting Figure S3:** Two-dimensional agarose gel electrophoresis (2D-AGE) of mtDNA from HOS 143B cells expressing mtZFN binding to wild-type sequence

(A) Western blot analysis of HOS 143B cells stably expressing either the COMPa(-) mtZFN targeted to wild-type mtDNA sequence or a control vector. (B) Schematic representation of restriction digest used in the 2D-AGE analysis. The COMPa(-) mtZFN binding site is indicated by a blue block. The probe used for Southern blotting is indicated by a grey block. (C) and (D) 2D-AGE followed by Southern blot analysis of replication intermediates in mock transfected HOS 143B cells (C) or cell stably expressing COMPa(-) mtZFN (D).