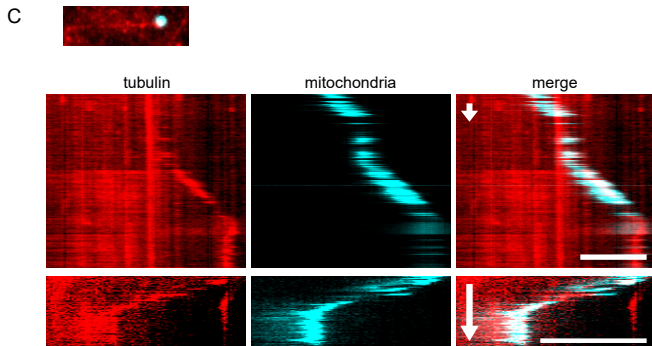
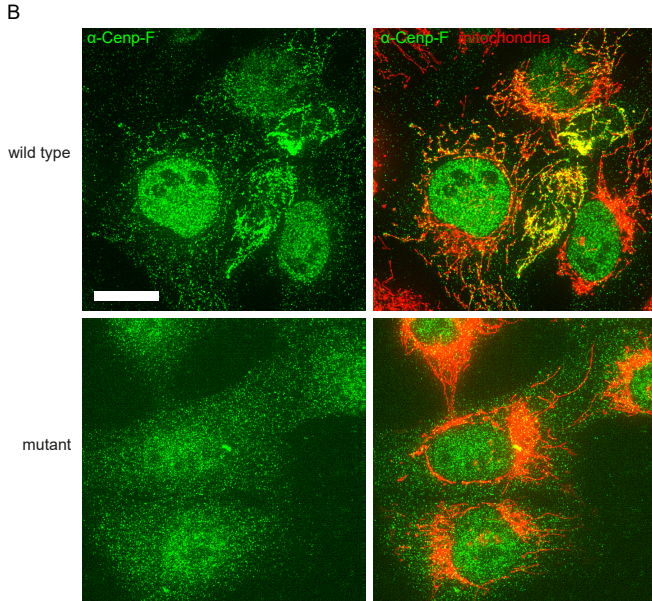
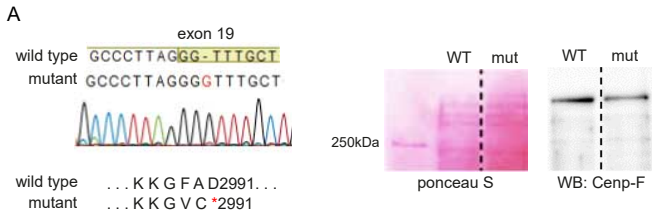


Supplemental Materials

Molecular Biology of the Cell

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Supplementary Figure 1



Supplemental Figure 1. CENP-F-independent mitochondrial movements *in vitro*. (A)

Characterization of the CRISPR/Cas9-induced genetic lesion in CENP-F mutant cells. Left, electropherogram of a sequencing reaction from the mutant cell line showing the frame shift mutation and its consequence at protein level. Right, Western blot of protein extract from wild-type and CENP-F mutant cell lines showing a slight decrease in protein abundance. (B) Immunofluorescence of CENP-F (green) relative to mitochondria (red) in wild-type (top) and CENP-F mutant Kermit U2OS cells (Kanferet *et al.* 2015). Scale bar, 20 μm (C) as in Figure 2, except that mitochondria were isolated from CENP-F mutant Kermit U2OS cells) and that recombinant CENP-F was omitted. Top, kymogram of a mitochondrion following a polymerizing microtubule. Bottom, kymogram of a mitochondrion following a de-polymerizing microtubule. Arrow, 120 s; Scale bar, 5 μm .