

## SUPPLEMENTAL DATA

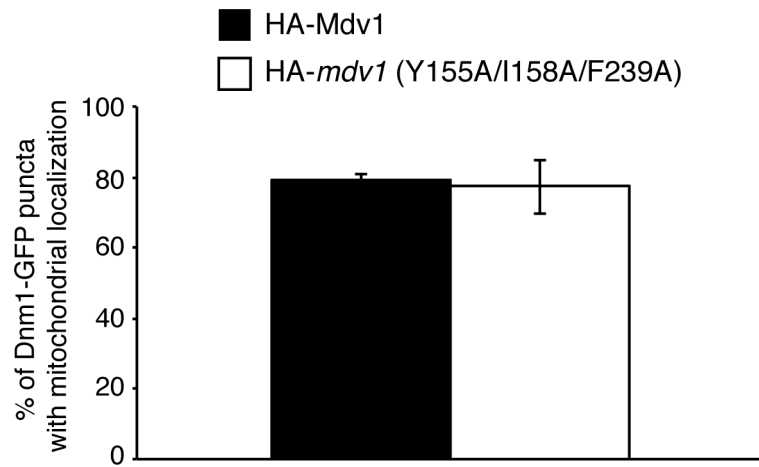
### **Crystal structure of a mitochondrial fission complex reveals a scaffolding function for the Mitochondrial Division 1 (Mdv1) coiled coil \***

Yan Zhang<sup>1</sup>, Nickie C. Chan<sup>1,2</sup>, Harry Gristick<sup>1</sup>, and David C. Chan<sup>1,2</sup>

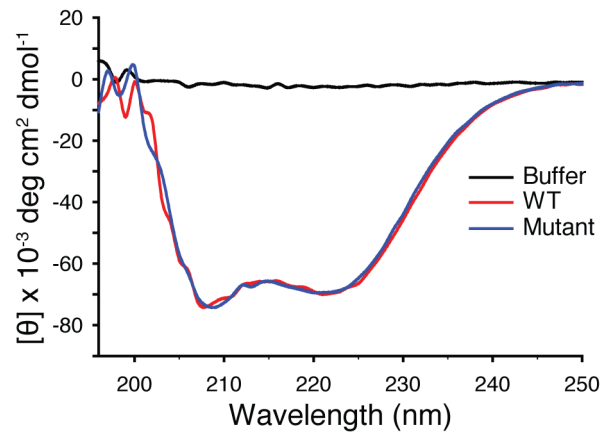
<sup>1</sup>From the Division of Biology  
<sup>2</sup>Howard Hughes Medical Institute  
California Institute of Technology  
Pasadena, CA 91125, U.S.A.

To whom correspondence should be addressed: David C. Chan, California Institute of Technology, Howard Hughes Medical Institute, 1200 E. California Boulevard, MC114-96, Pasadena, CA 91125  
Tel.: (626) 395-2670, Fax: (626) 395-8826, Email: [dchan@caltech.edu](mailto:dchan@caltech.edu)

## SUPPLEMENTAL FIGURES



**Supplemental Figure S1.** Plasmids encoding HA-tagged wild-type or mutant Mdv1 were transformed into yeast strain DCY 2418, which expresses Dnm1-GFP and lacks endogenous Mdv1 and Caf4 (17). Cells were grown in selective media to mid-log phase, and the subcellular localization of Dnm1-GFP puncta was analyzed by fluorescence microscopy. Each Dnm1-GFP punctum was scored for co-localization with mitochondria. Each strain was analyzed in triplicate using three independent transformants, each with 100 cells scored. Error bars indicate standard deviation.



**Supplemental Figure S2.** Circular dichroism spectra of wildtype and mutant Mdv1/Fis1 complexes. Mutant complexes contained Mdv1 with Y155A/I158A/F239A substitutions.