

## APPENDIX

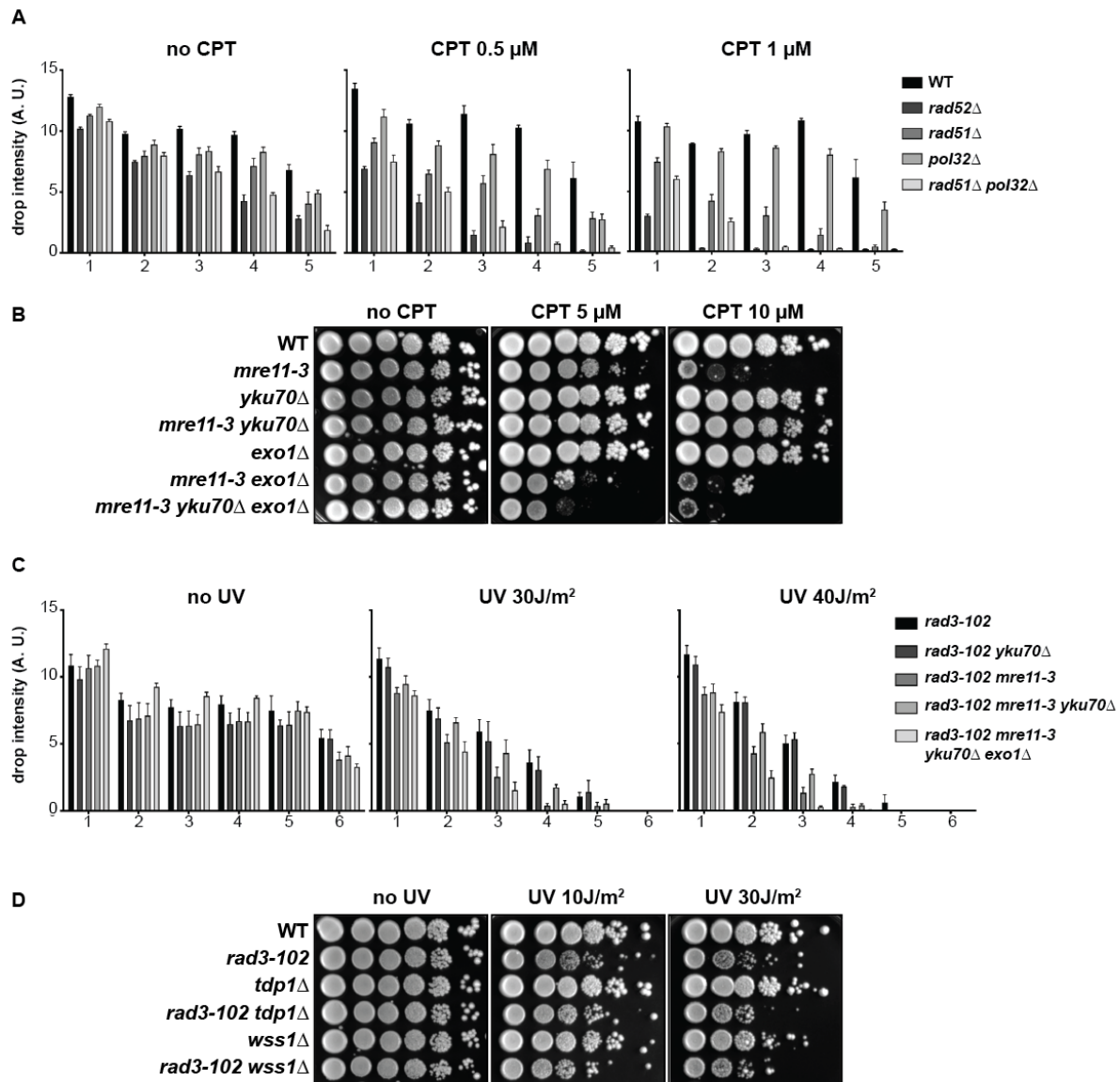
### **Homologous recombination and Mus81 promote replication completion in response to replication fork blockage**

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**Appendix Figure S1.** DNA repair is similar in CPT-treated and *rad3-102* cells.

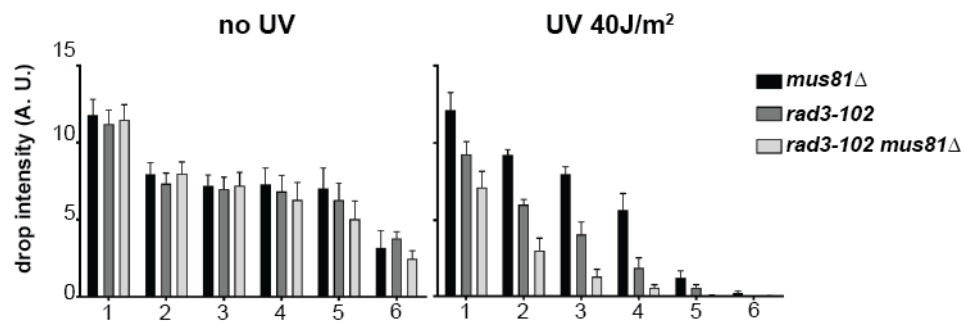
### Related to Figure 1

(A) Quantification of four independent CPT sensitivity assays illustrated in Figure 1B. Mean and SD values are indicated for each yeast drop (1 to 5).

(B) CPT sensitivity assayed by 10-fold serial dilutions of different mutant combinations on YPAD plates (n=3).

(C) Quantification of four independent UV sensitivity assays illustrated in Figure 1D. Mean and SD values are indicated for each yeast drop (1 to 6).

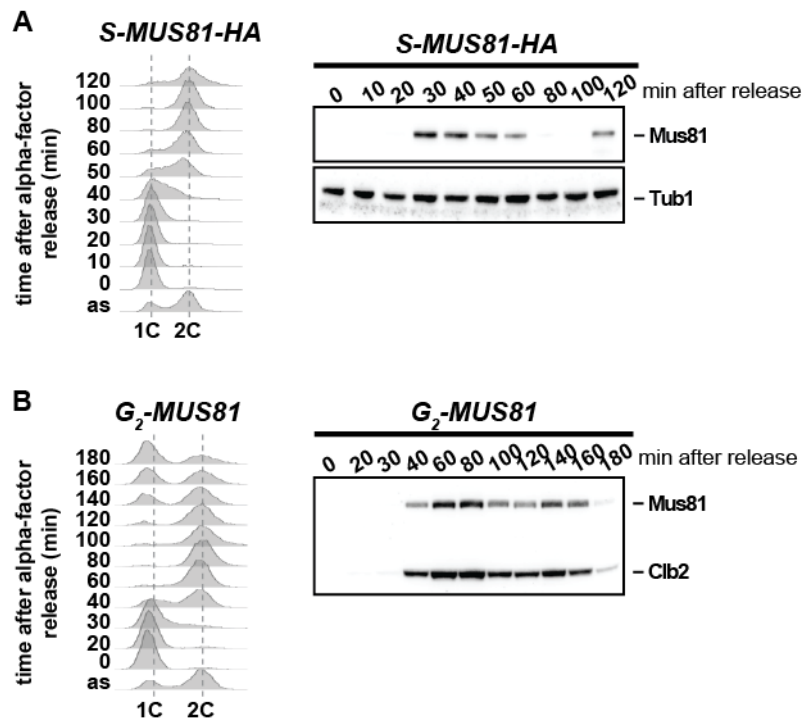
(D) UV sensitivity assayed by 10-fold serial dilutions of *tdp1Δ* and *wss1Δ* mutants in combination with *rad3-102* allele on YPAD plates after exposure to the indicated UV-C doses (n=3).



**Appendix Figure S2.** The absence of Mus81 increases the UV sensitivity *rad3-102* cells.

**Related to Figure 2**

Quantification of four independent CPT sensitivity assays illustrated in Figure 2C. Mean and SD values are indicated for each yeast drop (1 to 5).



**Appendix Figure S3.** Cell-cycle restricted expression of *MUS81* using S and G<sub>2</sub> tags.

### Related to Figure 5

(A) Immunoblot analysis of S-Mus81 tagged with 3 HA epitopes at its C-terminus. *S-MUS81-HA* cells were synchronized in G<sub>1</sub> with  $\alpha$ -factor and released into S phase (n=2). Cells were collected at the indicated time points and S-Mus81 was immunodetected with anti-HA antibodies. Tub1 immunodetection serves as a loading control. Flow cytometry profiles corresponding the experimental setup are shown.

(B) Immunoblot analysis of G<sub>2</sub>-Mus81. *G<sub>2</sub>-MUS81* cells were synchronized in G<sub>1</sub> with  $\alpha$ -factor and released into S phase (n=2). Cells were collected at the indicated time points and G<sub>2</sub>-Mus81 and Clb2 were immunodetected with anti-Clb2 antibodies. Flow cytometry profiles corresponding the experimental setup are shown.