

Appendix for

The Shu complex interacts with the replicative helicase to prevent mutations and aberrant recombination

Adeola A. Fagunloye^{1,*}, Alessio De Magis^{2,3,*}, Jordan H. Little⁴, Isabela Contreras¹, Tanis J. Dorwart¹, Braulio Bonilla⁵, Kushol Gupta¹, Nathan Clark^{4,6}, Theresa Zacheja³, Katrin Paeschke^{2,3,*}, Kara A. Bernstein^{1,*}

¹University of Pennsylvania, School of Medicine, Department of Biochemistry and Biophysics, Philadelphia, PA 19104.

²Department of Oncology, Hematology and Rheumatology, University Hospital Bonn, Bonn, Germany.

³Department of Clinical Chemistry and Clinical Pharmacology, University Hospital Bonn, Bonn, Germany.

⁴University of Utah, Department of Human Genetics, Salt Lake City, Utah 84112.

⁵University of Pittsburgh, School of Medicine, Department of Pharmacology and Chemical Biology, Pittsburgh, PA 15213.

⁶University of Pittsburgh, Department of Biological Sciences, Pittsburgh, PA 15260.

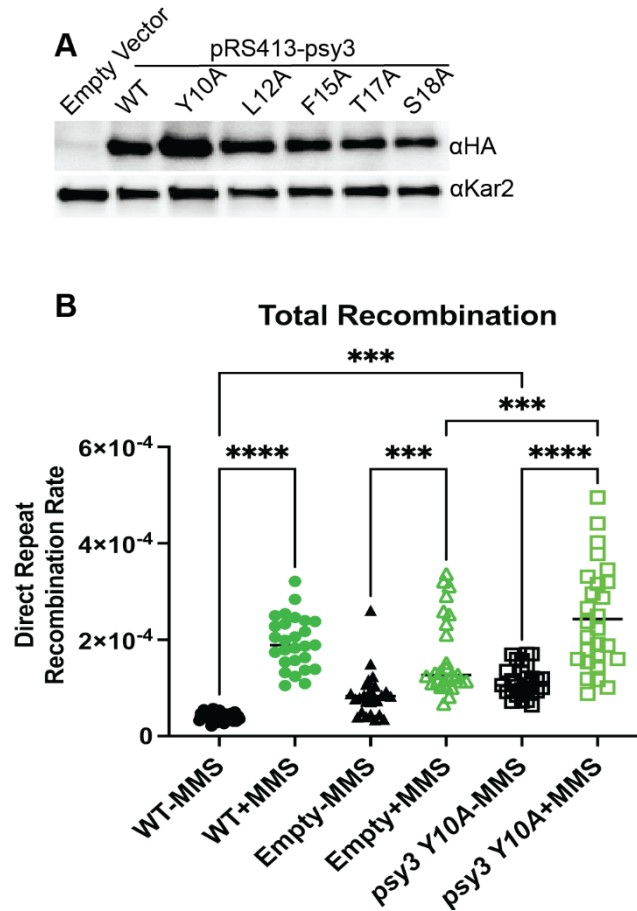
*Equal contribution

Correspondence: kpaeschk@uni-bonn.de (K.P); kara.bernstein@penntmedicine.upenn.edu (K.B)

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Appendix Figure S1



Appendix Figure S1: Psy3 N-terminal mutants are expressed, and total recombination was assessed using a direct repeat recombination assay.

(A) Protein expression of HA-tagged WT Psy3, psy3 N-terminal mutants (Y10A, L12A, F15A, T17A, and S18A) expressed in a pRS413 vector was assessed by western blot. Protein was isolated by TCA precipitation from untagged WT or *psy3* mutants' cells expressing the HA-tag. The Psy3 protein levels were assessed by western blot (α HA) or for equal protein loading (α Kar2). (B) WT, *psy3* Δ or *psy3-Y10A* expressing cells harboring a direct repeat HR reporter (*leu2- Δ EcoRI::URA3::leu2- Δ BstEII*) were tested for spontaneous total recombination rates and upon 0.0003% MMS exposure as described (0.0003%, 18 hours). Exact p values (WT-MMS vs. WT+MMS $p \leq 0.0001$, empty - MMS vs. empty + MMS $p = 0.0002$, *psy3-Y10A*-MMS vs. *psy3-Y10A* +MMS $p \leq 0.0001$, empty + MMS vs. *psy3-Y10A*+MMS $p = 0.0001$, WT-MMS vs. *psy3-Y10A*-

MMS $p=0.0005$). Nine independent colonies were measured for each experiment, and the median value from three experiments (horizontal bar) were plotted. The Tukey test determined significance where *** represents $p \leq 0.001$ and **** represents $p \leq 0.0001$.