Supplemental Material

Cockayne Syndrome B Protein Regulates Recruitment of the Elongin A Ubiquitin Ligase to Sites of DNA Damage

Juston C. Weems¹, Brian D. Slaughter¹, Jay R. Unruh¹, Stefan Boeing², Shawn M. Hall¹, Merry B. McLaird¹, Takashi Yasukawa⁴, Teijiro Aso⁴, Jesper Q. Svejstrup², Joan W. Conaway^{1, 3} and Ronald C. Conaway^{1, 3}

Supplemental Figure Legends

Supplemental Figure 1. CSB-dependent recruitment of Elongin A (*A*) and CUL5 (*B*) to localized DNA damage in CS1ANsv cells, transiently transfected (red) or not (black) with GFP-CSB. Recruitment of GFP-CSB is shown in blue. Graphs show mean \pm SEM, n=18 cells (6 cells from each of 3 independent experiments). Arrows in graphs indicate time of microirradiation; white triangles in images indicate microirradiated regions. Scale bars, 8 μ m.

Supplemental Figure 2. AP-FRET between wild type or mutant Halo-Elongin A labeled with TMRDirect and GFP-CSB (*A*) or Halo-Elongin A labeled with rhodamine 110 and mCherry-CUL5 (*C*). The graphs show individual data points, median, and interquartile ranges obtained from AP-FRET measurements made in a total of 24 cells for each FRET pair (6 cells from each of 4 independent experiments). *B*. Kinetics of recruitment of wild type and mutant Halo-Elongin A (6 cells each from 4 independent experiments). Cells were imaged every second, and intensity values were binned over 5-s intervals. Microirradiation was initiated at time t=0 s. Values represent mean \pm SEM.





В

Supplemental Figure 2

А