

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: **Pol II– Rad26 structural model, including the CTD and NTD domains.** Positions of Cockayne syndrome disease mutations are shown as spheres and colored by phenotype.

File Name: Supplementary Movie 2

Description: **Conformational changes in Rad26 in response to changed nucleotide state.** Rad26 is colored by domains. DNA and RNA are shown in blue and red. Cockayne syndrome disease mutations (red sphere) are mapped onto the Rad26 structure.

File Name: Supplementary Movie 3

Description: **Consensus communities identified from dynamic contact network analysis and mapped to the structure of the Pol II–Rad26 complex.** Dynamic communities are color-coded and labeled.