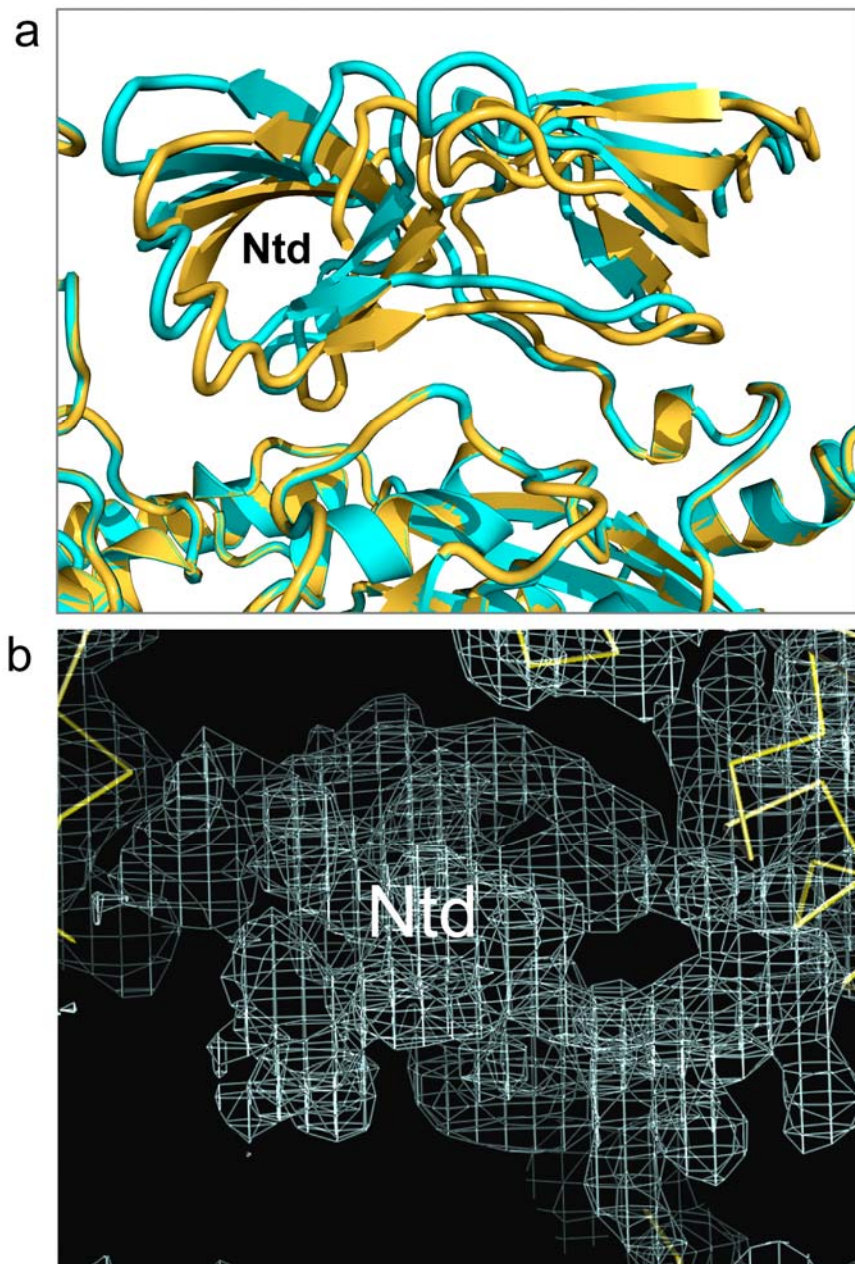**Supplemental Data**
Structure of RapA, a Swi2/Snf2 Protein
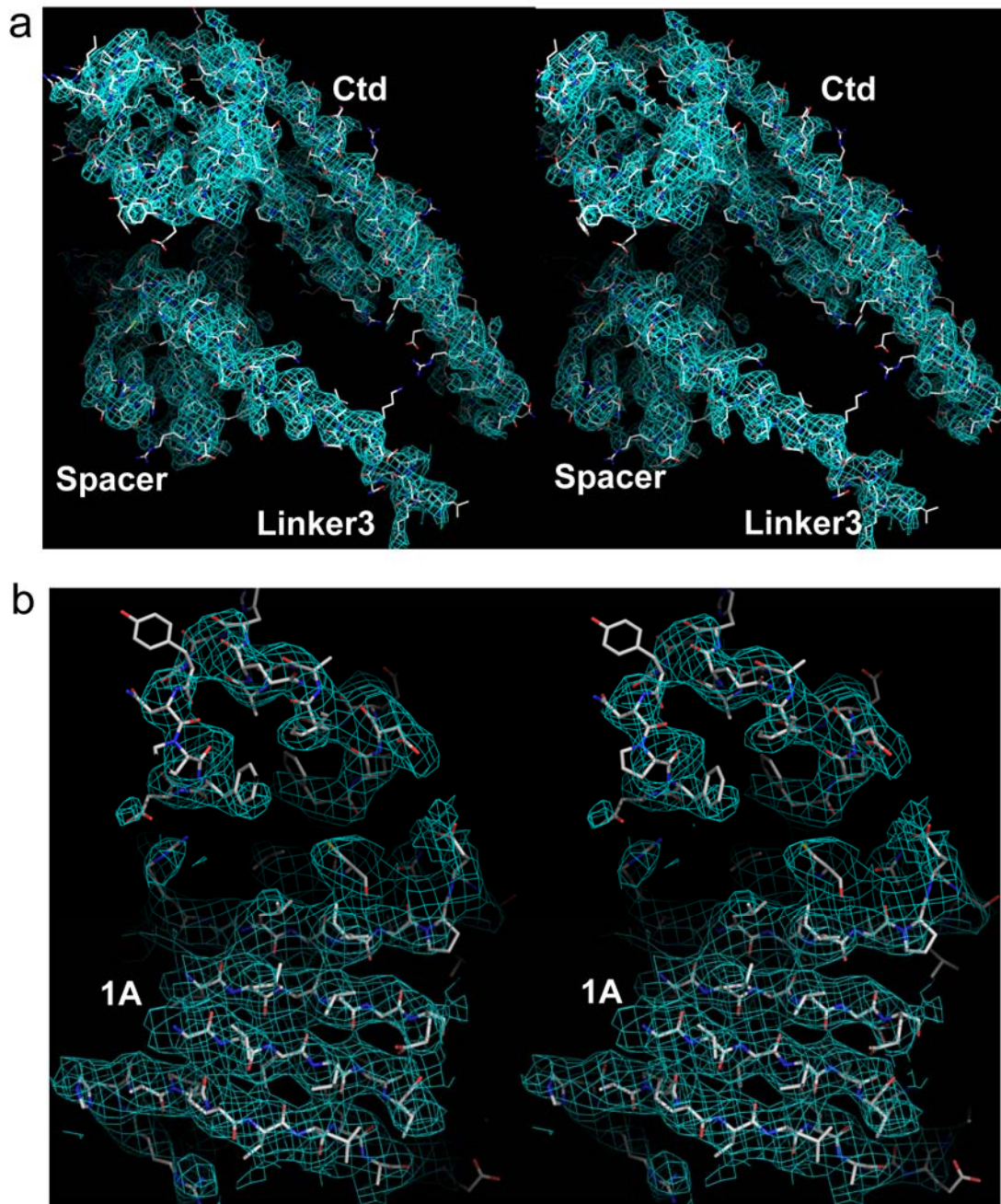**that Recycles RNA Polymerase During Transcription**

Gary Shaw, Jianhua Gan, Yan Ning Zhou, Huijun Zhi, Priadarsini Subburaman,
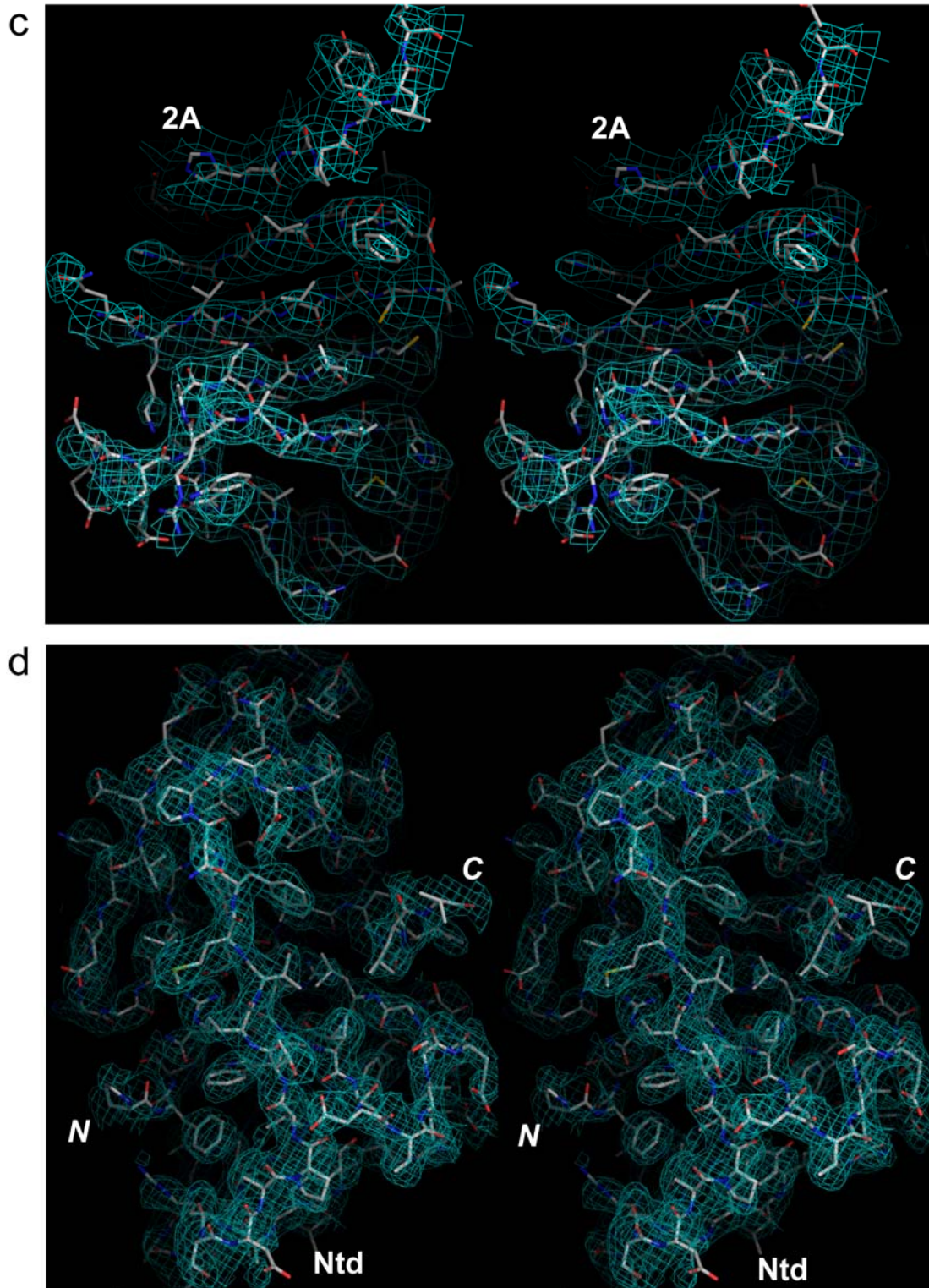Rongguang Zhang, Andrzej Joachimiak, Ding Jun Jin, and Xinhua Ji

Figure S1. The Ntd (N-Terminal Domain) of RapA

(A) Of the two crystallographically independent molecules, the backbones of the Linker1-to-Ctd
fragment are virtually identical and the backbones of the Ntd are similar, but the relative
positioning of Ntd with respect to the rest of the molecule (Linker1-to-Ctd) is slightly different.

(B) Electron density for the Ntd (white net, calculated using combined phases from the SeMAD experiment and the Linker1-to-Ctd structure, contoured at the level of 1σ) outlines the domain structure.

Figure S2. Stereo Views Showing the Experimental Electron Density Maps
Experimental electron density maps of *E. coli* RapA are superimposed with the final structure.
(A-C) Full length RapA (using SeMAD phases at 3.2-Å resolution, contoured at 1.0 σ).
(D) The Ntd of RapA (using SeSAD phases at 2.1-Å resolution, contoured at 1.0 σ).