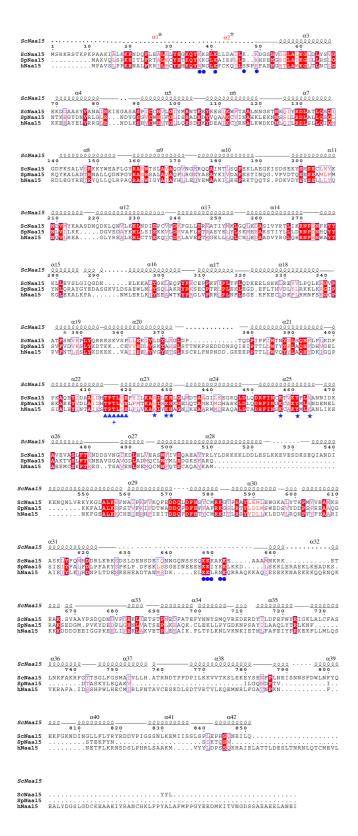
## **Supplemental Information**

## Structure and mechanism of acetylation by the Nterminal dual enzyme NatA/Naa50 complex

Sunbin Deng, Robert S. Magin, Xuepeng Wei, Buyan Pan, E. James Petersson, Ronen Marmorstein



**Figure S1. Related to Figure 2.** Sequence alignment of Naa15 homologues from S. *cerevisiae* (Sc). S. pombe (Sp) and H. sapiens (h). +, threonine residue in TY mutants; ▲,TPTLXE motif for Naa50 binding; ★, residues binding IP6. ●, residues involving in ribsome association. The dotted lines indicates regions disordered and not resolved

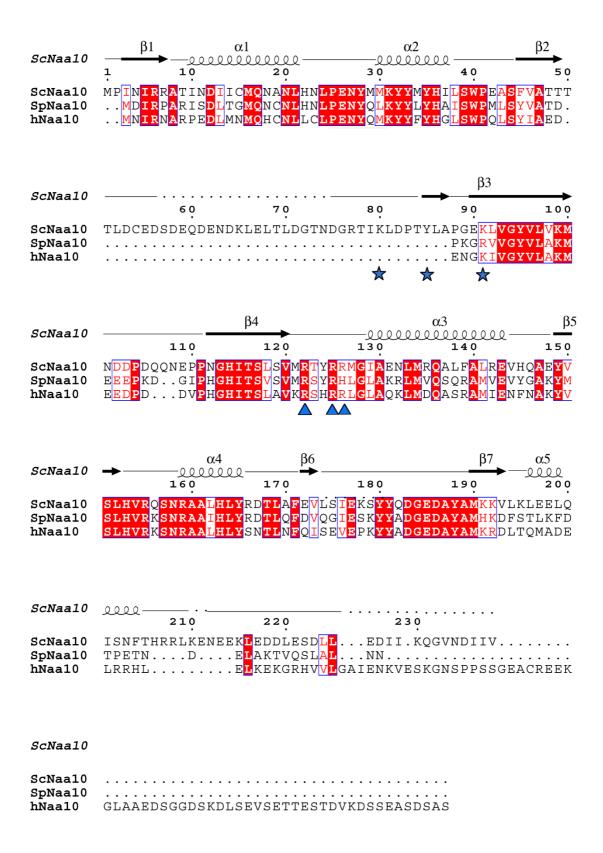
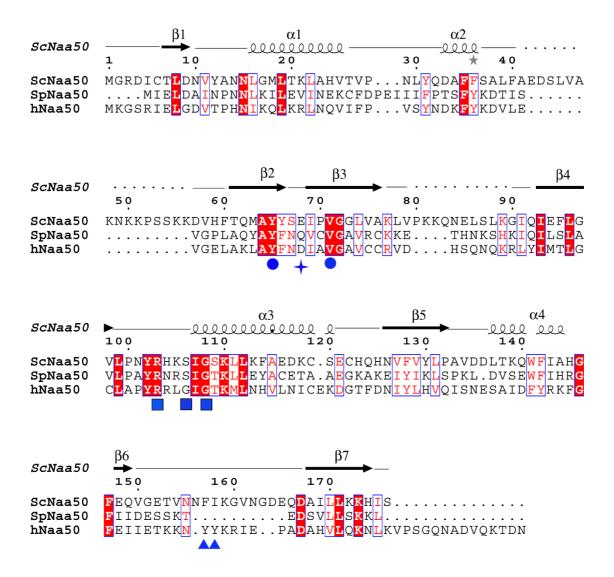


Figure S2. Related to Figure 2. Sequence alignment of Naa10 homologues from S. cerevisiae (Sc). S. pombe (Sp) and H. sapiens (h). ▲, residues contacting Naa50;
★, residues binding IP6.



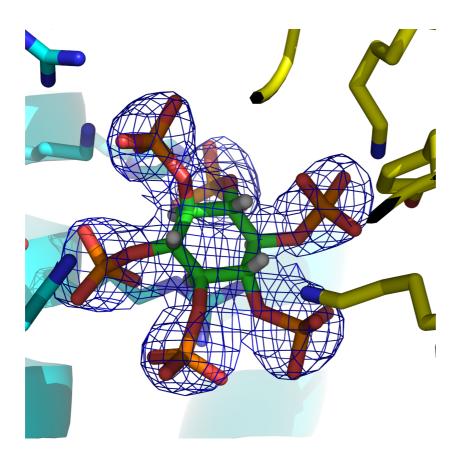


Figure S4. Related to Figure 2C. IP<sub>6</sub>2Fo-Fc electron density map of Naa50-bound to IP<sub>6</sub>. The IP<sub>6</sub> electron density is contoured at 3.0  $\sigma$  (shown in blue).