A

[Ess1] = 30 uM

CTD-P

+ Ess1

+ peptide

wash

CTD-Un

no peptide

[BLI]_{nm}

Time (sec)

B

[Ess1] = 30 uM
10 uM
3 uM

Whi5-NES-P

[BLI]_{nm}

Time (sec)
Figure S1 Representative BLI experiments. (A) Raw data for binding of purified Ess1 protein (30 µM) to control peptides from RNA polymerase II CTD. Time of addition of biotinylated peptides (or no-peptide controls) to streptavidin-coated sensors is indicated by the arrow (+ peptide). After peptide binding, sensors were washed in buffer alone prior to transfer into buffer with Ess1 protein (+Ess1). Sensors with peptide and bound Ess1 were placed into fresh buffer (dissociation). (B) Example of raw data using peptides representing the nuclear export sequence (NES) of Whi5 at three concentrations of Ess1 as indicated. Samples A5, D5, and G5 are the Whi5-NES-P peptide with 30, 10, 3 µM Ess1 protein, respectively. Samples B5 and E5 are Whi5-NES-UN peptide with 30 and 10 µM Ess1 protein, respectively. Samples C5, F5, and H5 are “no-peptide-added” controls with 30, 10, 3 µM Ess1 protein, respectively. Note that the no-peptide controls show increased (background) signal with higher Ess1 protein concentrations, as expected. For both panels A and B, the (P) indicates phospho-Ser peptides, (Un) indicates unphosphorylated peptides. Full peptide sequences are given in the main text (Table 5).