**Figure S2 Estimation of apparent $K_d$ values for binding of Ess1 to peptides.** From the BLI kinetic assays of Ess1 binding with each peptide (Figure 6), regression analyses were used to determine the apparent dissociation constants ($K_{app}$) for binding of Ess1 to each of the query peptides. (A) For each phosphorylated peptide, observed rates ($k_{obs}$) for Ess1 association were plotted vs. the concentration of Ess1, and the slope provides an estimate of the 2nd-order association rate ($k_a$, M$^{-1}$s$^{-1}$), which is listed in Table S4. The kinetic estimate for $K_d$ ($K_{app}$, Table S5) was calculated as the ratio of $k_a/k_s$ values from Table S4. (B) The plateau value for binding at each Ess1 concentration (Figure 6) was assumed to represent the amount of Ess1/peptide complex at equilibrium. For each phosphorylated peptide, these equilibrium binding responses were plotted vs. Ess1 concentration and fit to a hyperbolic binding isotherm to obtain the equilibrium estimate for $K_d$ ($K_{app,eq}$, Table 5).