Supplemental Figures

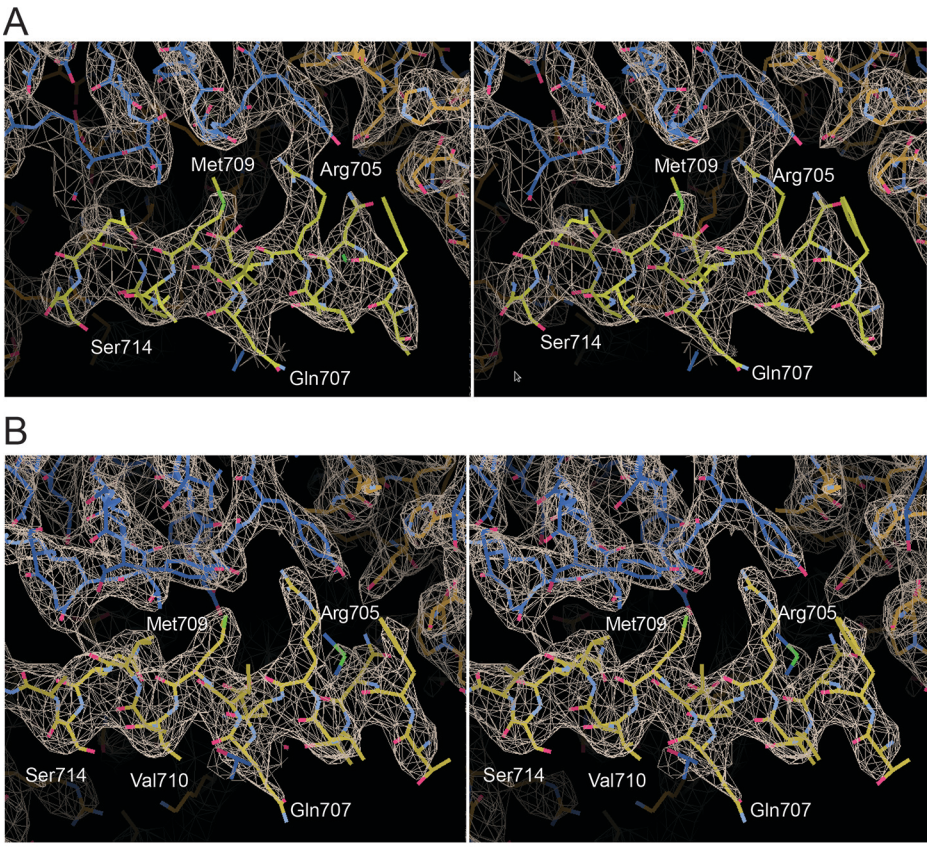

Figure S1. Stereo views of electron density maps in the region of Helix αA of Bud6, related to Figure 1. A, Experimental electron density map obtained after phase improvement by iterative non-crystallographic symmetry averaging. Starting phases were obtained from the molecular replacement model, which contained only actin. B, 2Fo-Fc electron density map calculated using phases derived from the final model. In both A and B, the final refined model is shown and both maps are contoured at 1.3 σ.

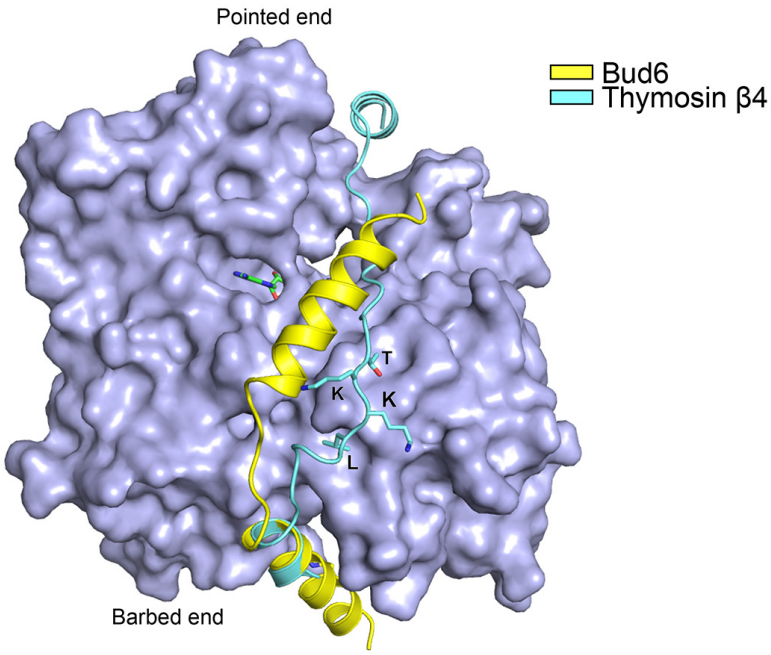

Figure S2. Superposition of Bud6^{flank} and the thymosin β4 WH2 domain bound to actin, related to Figure 2. The "LKKT" sequence motif found in thymosin β4 and other WH2 domains is shown in a stick representation. The thymosin β4 structure is drawn from PDB ID 4PL7.

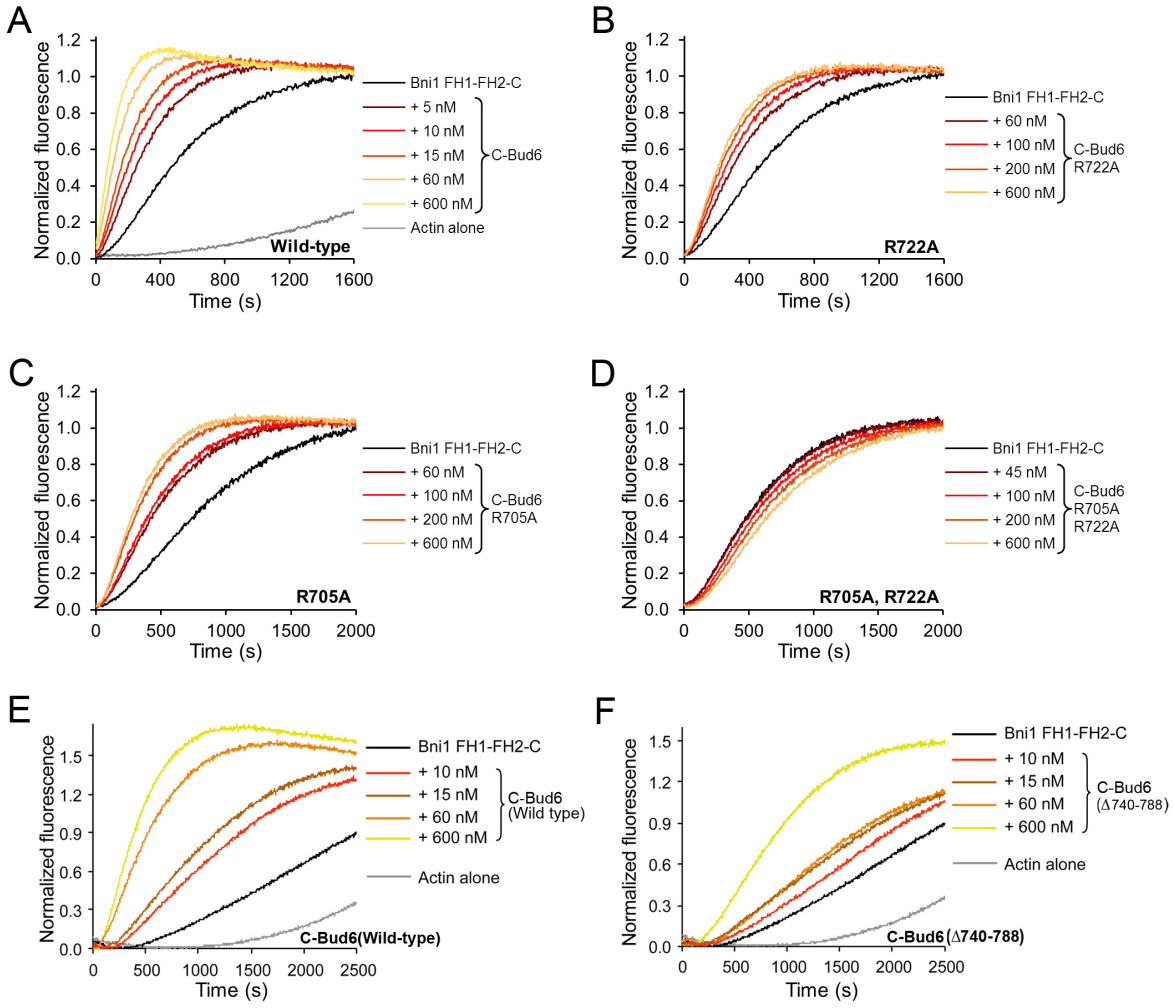

Figure S3. Structure-function analysis of the Bud6-actin interaction. related to Figure 3. 2 μM monomeric actin was polymerized in the presence of 10 nM Bni1 FH1-FH2-C and indicated concentrations of C-Bud6. These are the raw data underlying Figure 3 in the main text. A-D, Actin assembly curves for wild type or mutant C-Bud6, (corresponding to Figure 3A). E and F, Actin assembly curves for intact C-Bud6 (residues 550-788) versus truncated C-Bud6$\Delta^{740\text{-}788}$ (residues 550-739, corresponding to Figure 3B).