Supporting Information

Li et al. 10.1073/pnas.1001908107

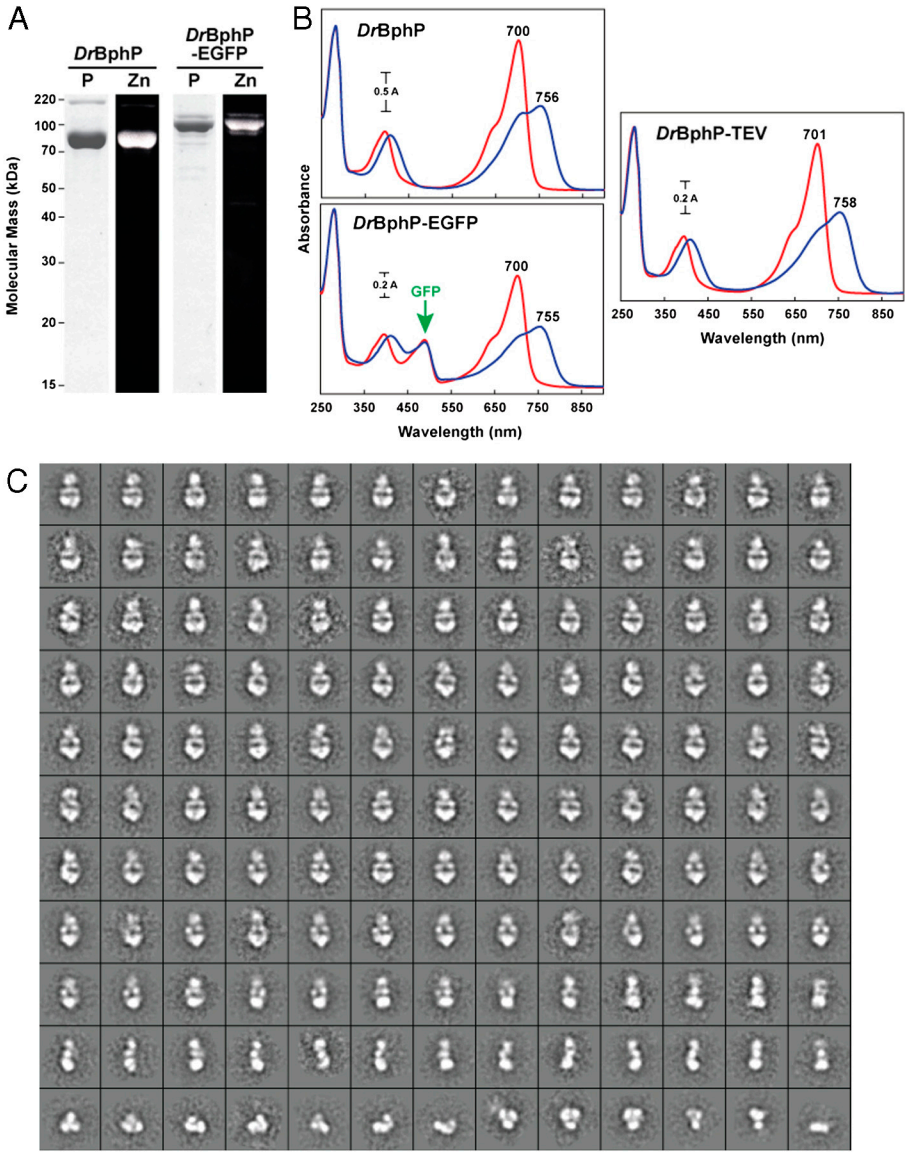

Fig. S1. Characterization of the *Dr*BphP chromoproteins used in this study. (*A*) Recombinant *Dr*BphP and *Dr*BphP-EGFP apoproteins were assembled with BV, purified by nickel-chelating affinity and size exclusion chromatography, and either stained for protein with Coomassie Blue (P) or assayed for the covalently attached bilin by zinc-induced fluorescence (Zn) following SDS-PAGE. (*B*) UV-Vis absorption spectra of the *Dr*BphP, *Dr*BphP-EGFP, and *Dr*BphP-TEV chromoproteins as Pr (solid lines) or following saturating R, which generates an approximately 80% mixture of Pfr (dashed lines). The extra peak at approximately 500 nm in *Dr*BphP-EGFP reflects the absorption of the EGFP moiety (green arrow). (*C*) A sampling of 2D class averages of the negative-staining EM images generated with *Dr*BphP particles. The prevalent side views are shown in the upper nine rows, whereas the less common edge-on and tilted views, and the rare top views are shown in the bottom two rows.