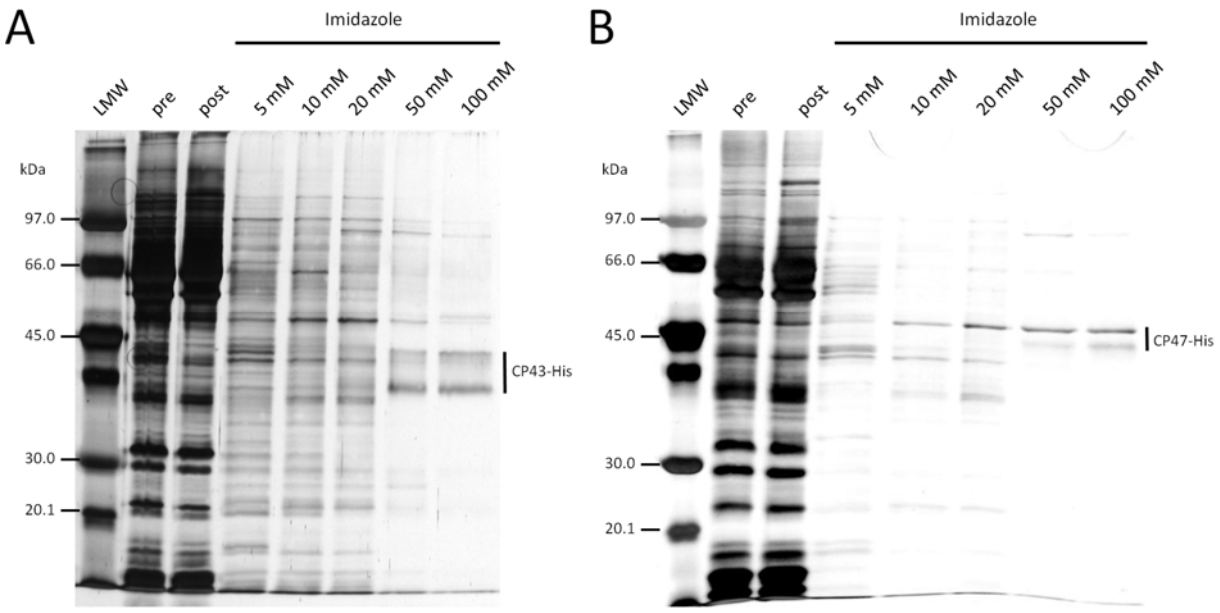
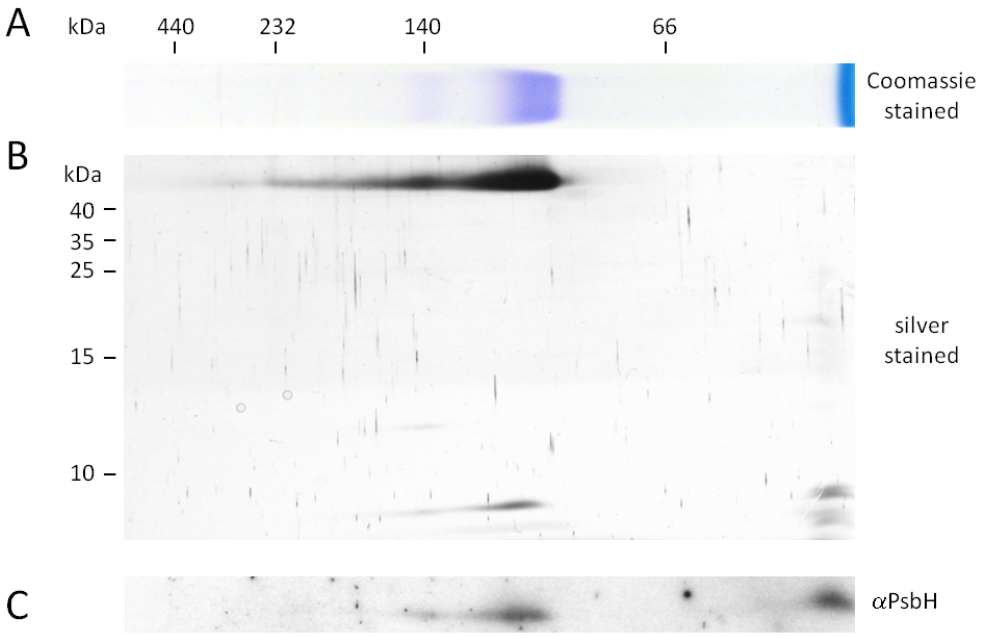
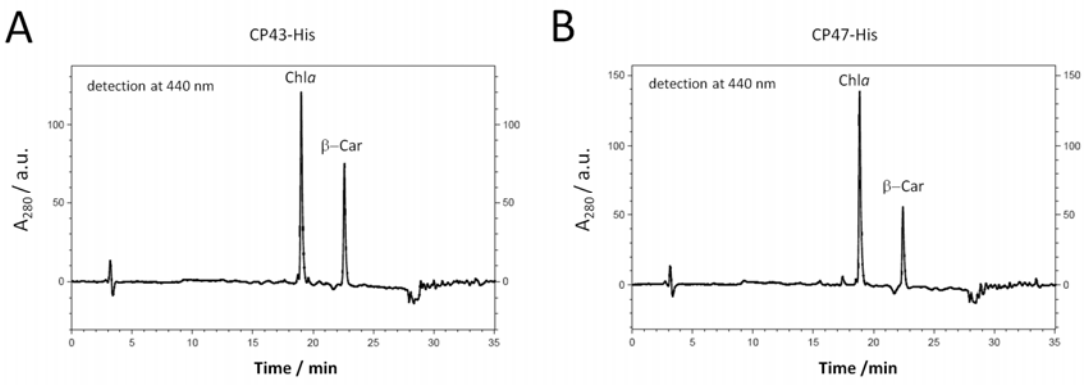


Supplementary Figure 1: SDS PAGE analysis of the Ni^{2+}-affinity purification of CP43-His and CP47-His. The fractions collected during the Ni^{2+}-affinity purification of (A) CP43-His and (B) CP47-His were analysed by SDS PAGE. Pre and Post incubation samples (corresponding to an amount of 1 µg of Chl *a*) as well as equal amounts of samples taken from the various washes (5, 10 and 20 mM imidazole) and elutions (50 and 100 mM imidazole) were analysed on a 12.5 % (w/v) polyacrylamide SDS-PAGE gel that was subsequently silver-stained. The positions of CP43-His and CP47-His proteins are indicated.



Supplementary Figure 2: 2D BN/SDS-PAGE and immunoblotting analysis of CP47-His. (A) Isolated CP47-His protein containing 0.5 µg Chl *a* was analysed on a 8 to 12 % (w/v) polyacrylamide BN-PAGE linear gradient gel (B) followed by a 18 % (w/v) polyacrylamide SDS-PAGE gel and (C) immunoblotting with an αPsbH antibody. The first dimension BN-PAGE gel was Coomassie stained, while the second dimension SDS-PAGE gel was stained with silver.



Supplementary Figure 3: Reverse-phase HPLC pigment analysis. Traces of the HPLC pigment analysis runs recorded at 440 nm for samples of CP43-His (panel A) and CP47-His (panel B). Positions of the Chl *a* and β-Car peaks indicated.