Supplemental Information for

The \textit{D}-ring, not the \textit{A}-ring, rotates in \textit{Synechococcus OS-B'} phytochrome

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Supplemental Figures S1–S3
Supplemental Figure S1  Sequence of SyB.Cph2(GAF):H₆ with optimized codon usage for expression in E. coli as used in this work.
Supplemental Figure S2 Enlarged contour plots of the DARR spectra of u-[13C,15N]-PCB-SyB.Cph2(GAF) as P630 with mixing times of 5 (red) and 50 (purple) ms. Two 1D traces of the 2D spectra along ω₁ (right) and ω₂-dimension (top) are shown with the assignments of the 13C peaks. The indirectly bonded 13C–13C correlations are indicated by arrows and labeled in green. Resonances of the natural abundance glycerol carbons are indicated by asterisks.
Supplemental Figure S3 Enlarged contour plots of the DARR spectra of \( \nu^{\text{[13C,15N]}-\text{PCB-SyB.Cph2(GAF)} } \) as P690 with mixing times of 5 (orange) and 50 (cyan) ms. Two 1D traces of the 2D spectra along \( \omega_1 \) (right) and \( \omega_2 \) dimension (top) are shown with the assignments of the \( ^{13}\text{C} \) peaks. The indirectly bonded \( ^{13}\text{C} \)-\( ^{13}\text{C} \) correlations are indicated by arrows and labeled in green. Resonances of the natural abundance glycerol carbons are indicated by asterisks.