

Supplementary Information

Influence of the PHY Domain on the *ms*-Photoconversion Dynamics of a Knotless Phytochrome

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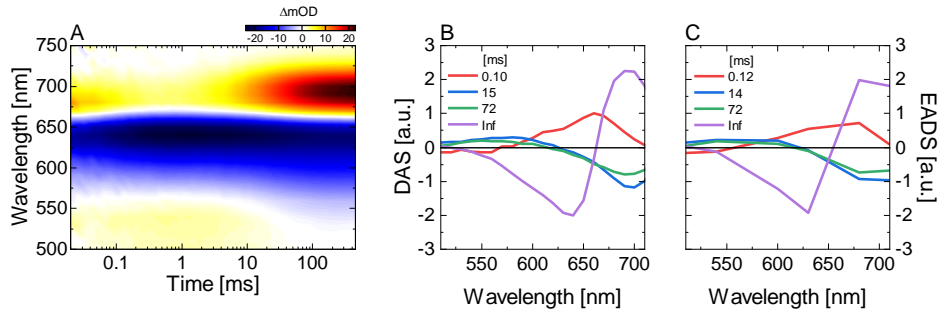


Fig. S1 $P_r \rightarrow P_{fr}$ ms dynamics of All2699g1 at pH 7.2. (A) Flash photolysis data of the $P_r \rightarrow P_{fr}$ ms dynamics after excitation at 640 nm. (B) Corresponding decay-associated spectra (DAS) obtained after global target analysis of (A). (C) DAS obtained from global target analysis of a separate measurement of single transients at key wavelengths (510, 540, 600, 630, 680 and 710 nm) under similar conditions

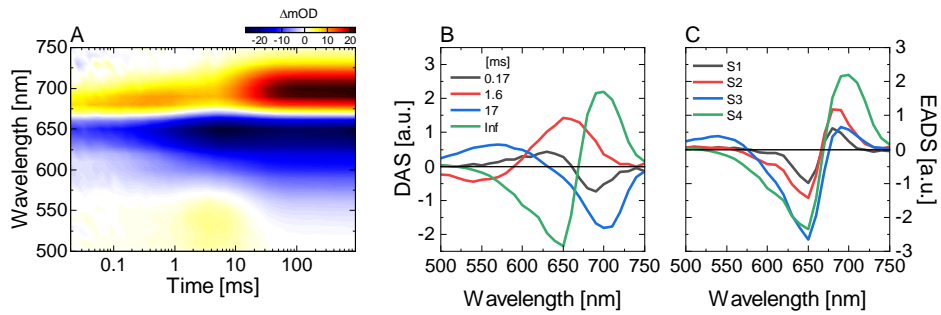


Fig. S2 $P_r \rightarrow P_{fr}$ ms dynamics of SynCph2 at pH 8. (A) Flash photolysis data of the $P_r \rightarrow P_{fr}$ ms dynamics after excitation at 640 nm. (B) Corresponding decay-associated spectra (DAS) and (C) evolution-associated spectra (EADS) obtained after global target analysis of (A)