Supplementary

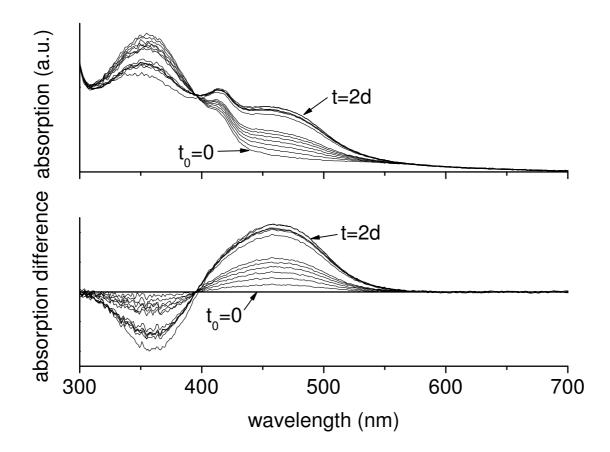


Figure S1: Time resolved kinetics ($t_0=0$ to t=2 days) of the Bacterioopsin reconstitution experiment with the MOPh-2-CHO model chromophore. The lower panel shows the derived difference spectra t-t₀ indicating the formation of the chromophore-Bacterioopsin complex (MOPh-2-SBH⁺-bO).

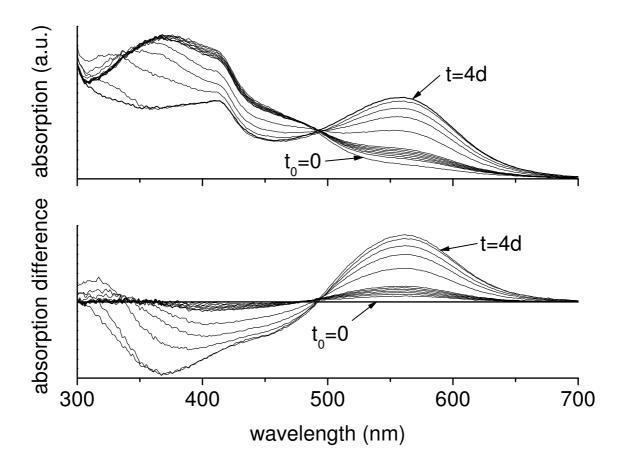


Figure S2: Time resolved kinetics ($t_0=0$ to t=4 days) of the Bacterioopsin competition experiment starting with the chromophore-Bacterioopsin complex MOPh-2-SBH+-bO after addition of 1:1 native retinal. The difference spectra show absorption, which corresponds to the absorption of native Bacteriorhodopsin, while the absorption of the chromophore-Bacterioopsin complex MOPh-2-SBH+-bO and of free retinal decreases.