## **Supporting Information**

Léonard et al. 10.1073/pnas.0812877106

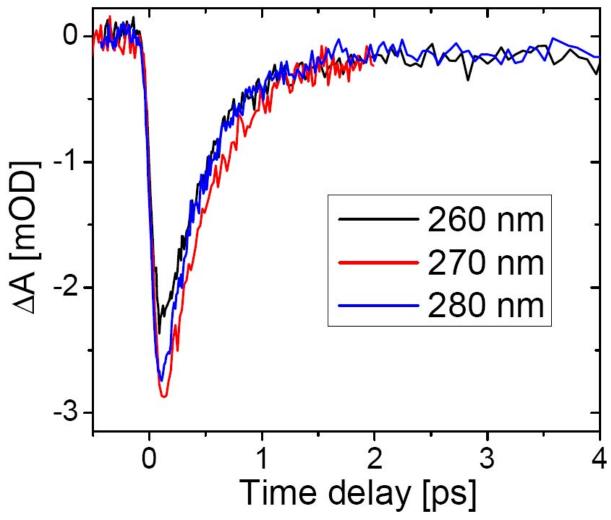


Fig. 51. Transient signal of the W86F mutant at 260 nm, 270 nm, and 280 nm. Like for the WT bR (1), the signal is almost wavelength independent in that range of wavelengths.

<sup>1.</sup> Schenkl S, et al. (2006) Insights into excited-state and isomerization dynamics of bacteriorhodopsin from ultrafast transient uv absorption. Proc Natl Acad Sci USA 103:4101-4106.

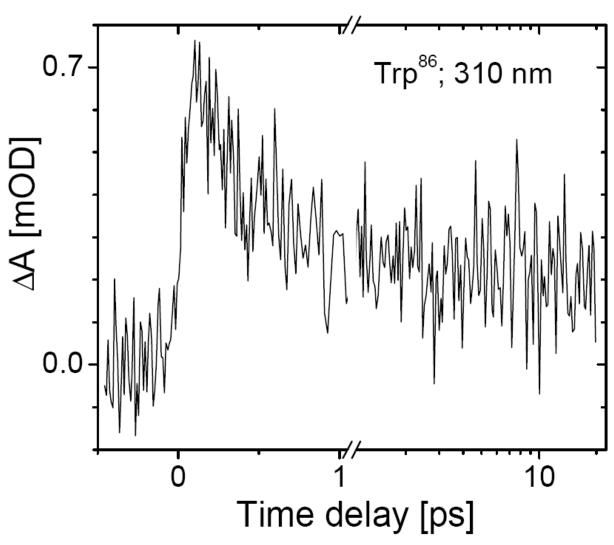


Fig. S2. Transient signal of Trp<sup>86</sup> at 310nm, obtained from the subtraction of WT bR and W86F transients at the same wavelengths. After the 500-fs decay, the signal remains flat up to at least 20 ps. Note the logarithmic scale for time delays 1 ps.