

Supplementary Materials: ns- μ s Time-Resolved Step-Scan FTIR of *ba*₃ Oxidoreductase from *Thermus Thermophilus*: Protonic Connectivity of w941-w946-w927

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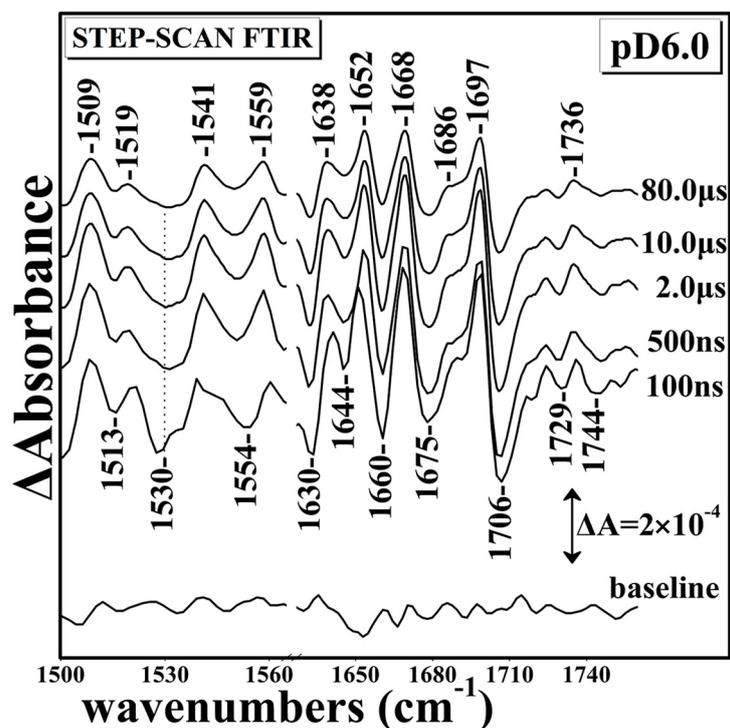


Figure S1. Time Resolved Step-Scan Fourier Transform Infrared (TRS²-FTIR) difference spectra of 1500–1760 cm⁻¹ area ($t_d = 100$ –80,000 ns, 4 cm⁻¹ spectral resolution) of fully-reduced *ba*₃-CO subsequent to CO photolysis by a 7 ns 532 nm laser pulse, at pD 6.0.

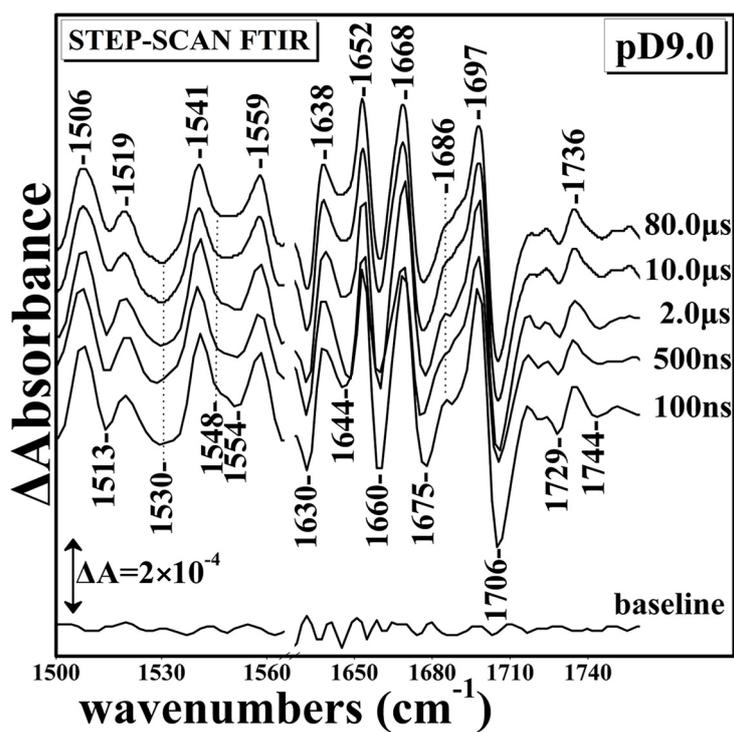


Figure S2. Time Resolved Step-Scan Fourier Transform Infrared (TRS²-FTIR) difference spectra of 1500–1760 cm^{-1} area ($t_d = 100$ –80,000 ns, 4 cm^{-1} spectral resolution) of fully-reduced *ba3*-CO subsequent to CO photolysis by a 7 ns 532 nm laser pulse at pD 9.0.