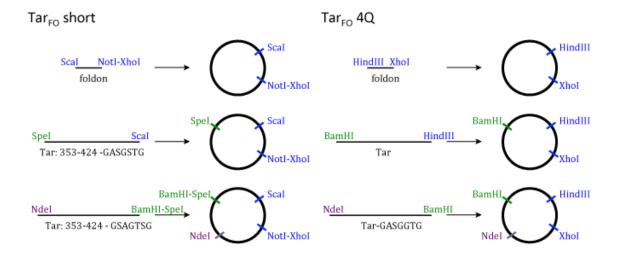
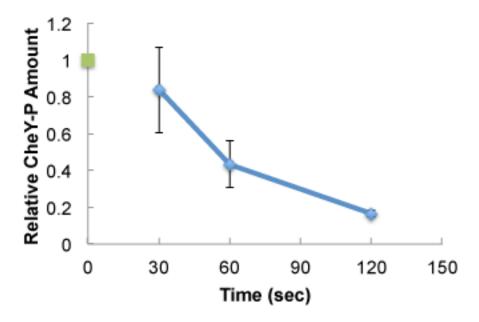
Supporting Information

Preformed soluble chemoreceptor trimers that mimic cellular assembly states and activate CheA autophosphorylation

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SI Figure 1: Schemes for cloning the Tar_{FO} constructs (not to scale).



SI Figure 2: CheY-P production by CheA in complex with CheW and Tar_{FO} short. 30 min of CheA autophosphorylation followed by CheY addition and quenching after the times indicated. Loss of CheY-P over time cannot be overcome by additional transfer from CheA-P. Lines drawn between time points to aid visualization. Zero time point (green square) represents the amount of CheA-P present after 30 min autophosphorylation. An exponential fit to the CheY-P decay curve $(Y_t = Y_0 e^{-k_- pt})$ gives $k_p = 0.020 \pm 0.002$ sec⁻¹; $t_{1/2} = 34$ sec; $R^2 = 0.98$. For the autophosphorylation assay *E. coli* CheA (1 μM), CheW (1 μM), and Tar_{FO} short (1 μM) were allowed to complex at 25 °C for 1 hour prior to γ-³²P-ATP exposure for 30 minutes after which CheY (25 μM) was added and the reaction then quenched after the times indicated.