Supporting Information

Huang et al. 10.1073/pnas.0909126106



Fig. S1. Equilibrium denaturation of labeled (filled circles) and unlabeled (open circles) BBL in GdmCl at 279 K followed by circular dichroism at 222 nm. The labeled protein has a [GdmCl]_{50%} of 4.07 \pm 0.14 M and m of 0.96 \pm 0.14 kcal/mol/M, and the unlabeled protein has a [GdmCl]_{50%} of 4.19 \pm 0.11 M and an m of 0.85 \pm 0.08 kcal/mol/M on fitting to the standard equation $\Delta G_{D-N} = \Delta G_{D-N}^{\circ} - m[GdmCl]$.



Fig. S2. Fluorescence correlation spectroscopy of BBL to measure the diffusion time in the confocal volume at 279 K.

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Fig. S3. SM-FRET histogram of BBL in GdmCl solution, pH 5.8.



Fig. S4. SM-FRET histogram of BBL at 6 M urea. Data were acquired at a time bin size of 200 µs. The threshold set in data analysis is shown in the panels.