Supporting Information for
"A Minimal, Adaptive Binning Scheme for Weighted Ensemble Simulations"

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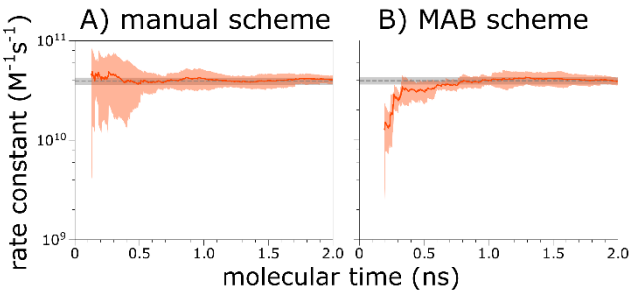

Figure S1. **Molecular association process of Na^+ and Cl^- ions.** Computed rate constants for the molecular association process involving Na^+ and Cl^- ions in explicit solvent as a function of molecular time $N\tau$ where N is the number of WE iterations and τ is the fixed time interval for WE resampling. The rate constant from standard simulations is shown with the uncertainty as a grey shaded line. Results are shown for **A)** the manual binning scheme and **B)** the MAB scheme.

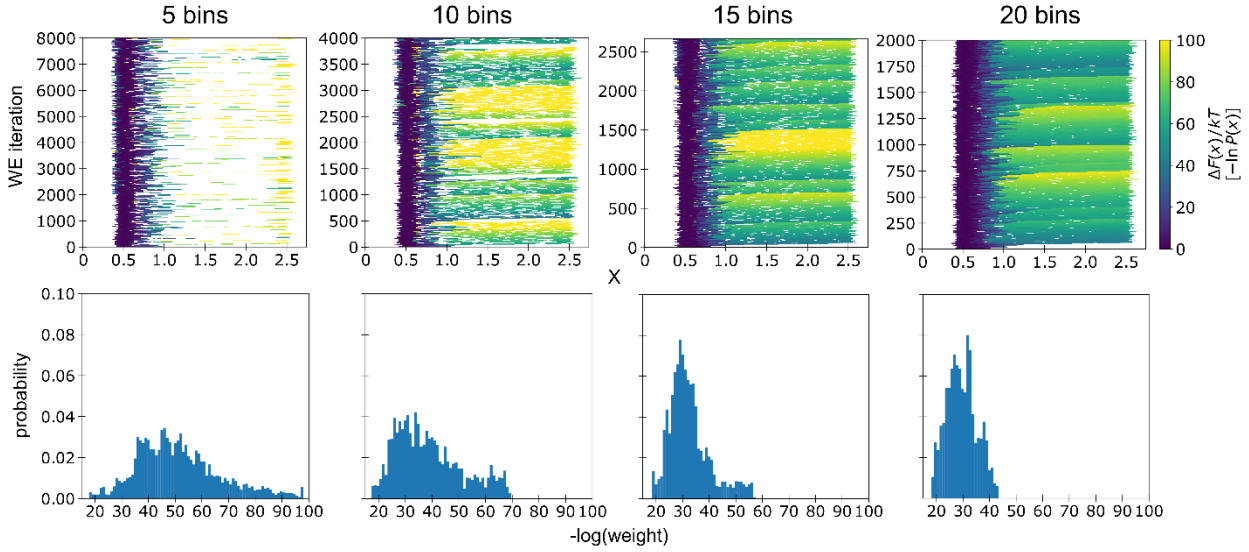

Figure S2. Probability distributions as a function of the progress coordinate X from WE simulations with the double-well potential and MAB scheme using different numbers of bins and the same total computing time (200,000 δt). Distributions of successful trajectories by their corresponding weights (trajectory weights shown on the logscale) are shown in the second row.