

Table S2: Range of bond spring constants tested to calibrate the computational model for the SV40-GM1 system. For each pair (k_f^0, k_b^0) of rate constants (Table S1) we simulated 11 different values of bond spring constants (σ, σ_{TS}). The final values of the optimized parameters are shown in bold.

σ [1.2×10 ⁻³ N/m]	10 ⁻²	10 ⁻²	10 ⁻¹	10 ⁻¹	10 ⁰	10⁰	10 ⁰	10 ¹	10 ¹	10 ²	10 ¹
σ_{TS} [1.1×10 ⁻³ N/m]	10 ⁻³	10 ⁻²	10 ⁻²	10 ⁻¹	10 ⁻¹	0.5	10 ⁰	10 ⁰	10 ¹	10 ¹	10 ²