Table 3. Kinetics of Operator Binding for Wild-Type and Mutant Repressors

	t _{1/2} (sec)	k ₋₂ (sec) ⁻¹	k₂ (sec)⁻¹M⁻¹
Wild type	34	0.022	2.8 × 10 ⁷
Lys ³⁴	163	0.0043	3.3 × 10°
Asn ⁴⁸	52	0.013	5.0×10^{7}
Ser ⁴⁸	139	0.005	1.5 × 10 ⁸
Lys ⁸³	250	0.0028	2.8×10^{8}

The $t_{1/2}$ values for dissociation of repressor—operator complexes are for standard assay conditions at 22°C (see Experimental Procedures, Figure 3). k_2 , the association rate constant, was calculated from the experimental dissociation rate constant (k_{-2}) and the equilibrium binding constant given in Table 2.