

Table 3. *In vitro* comparison between a strong and a weak T7 promoter

	A2	D
Kinetic constants:		
$k_{\text{on}} \left(\frac{k_1 k_2}{k_{-1}} \right), \text{M}^{-1} \text{sec}^{-1}$	$>9 \times 10^6$	9.6×10^5
$k_{\text{off}} (k_{-2}), \text{sec}^{-1}$	1.7×10^{-4}	3.3×10^{-5}
k_2, sec^{-1}	4×10^{-2}	2.4×10^{-2}
Apparent equilibrium constants:		
$K_{\text{I}}, \text{M}^{-1}$	$>2 \times 10^8$	4.1×10^7
K_{II}	2.4×10^2	7.2×10^2
$K_{\text{O}}, \text{M}^{-1}$	$>5 \times 10^{10}$	3.0×10^{10}

The kinetic constants k_{on} and k_2 were evaluated from the slopes and intercepts of Fig. 2. k_{off} was determined by Cech and McClure (18). The equilibrium constants were calculated from the ratios k_{on}/k_2 for K_{I} , k_2/k_{off} for K_{II} , and $k_{\text{on}}/k_{\text{off}}$ for K_{O} .