

Description	Rate	Parameter	Literature	Estimates
Transcription rate of <i>recA</i> mRNA	$\alpha_{M_r}(1 - B_r)$	α_{M_r}	3.0	-
Transcription rate of <i>lexA</i> mRNA	$\alpha_{M_l}(1 - B_l)$	α_{M_l}	1.8	-
Translation rate of RecA protein	$\beta_R M_r$	β_R	2.4	-
Translation rate of LexA protein	$\beta_{Le} M_l$	β_{Le}	6.0	-
Degradation rate of <i>recA</i> mRNA	$\delta_{M_r} M_r$	δ_{M_r}	1.2	-
Degradation rate of <i>lexA</i> mRNA	$\delta_{M_l} M_l$	δ_{M_l}	0.18	-
Degradation rate of RecA protein	$\delta_R R$	δ_R	1.2	-
Degradation rate of LexA protein	$\beta_{Le} Le$	β_{Le}	0.12	-
Binding rate of LexA dimers to <i>recA</i> promoter sites	$k_r^+(1 - B_r)Le$	k_r^+	1.2	-
Binding rate of LexA dimers to <i>lexA</i> promoter sites	$k_l^+(1 - B_l)Le$	k_l^+	0.6	-
Unbinding rate of LexA dimers from <i>recA</i> promoter sites	$k_r^- B_r$	k_r^-	2.4	-
Unbinding rate of LexA dimers from <i>lexA</i> promoter sites	$k_l^- B_l$	k_l^-	0.6	-
Rate of LexA auto-cleavage due to RecA protein	$c_p R Le$	c_p	-	0-6
Binding rate of LexA dimers to SOS promoter sites	$k_{sos}^+(1 - B_{sos})Le$	k_{sos}^+	-	1.2
Unbinding rate of LexA dimers from SOS promoter sites	$k_{sos}^- B_{sos}$	k_{sos}^-	-	1.2
Transcription rate of short mRNA	$\alpha_{M_s}(n_{sos} - B_{sos})$	α_{M_s}	-	1.0
Transcription rate of long mRNA	$\alpha_{M_l}(n_{sos} - B_{sos})$	α_{M_l}	-	1.0