Table S2. Auto-repressor network reactions

Reaction	**Rate**	**Description**
$d_0 + x \leftrightarrow d_1$	k_y, k_{-y}	binding and unbinding of the repressor to the promoter
$x \rightarrow \phi$	g_y	degradation of the repressor
$d_0 \rightarrow d_0 + x$	$a_y(1 + K)$	synthesis of the repressor (delayed reaction)