

Table S2. Biomolecular species, ODEs, and initial values for the model in Fig. S2.

Species	ODE	Initial value
S	$\frac{dS}{dt} = 0$	Varied
Y	$\frac{dY}{dt} = F_1 - F_2$	100
T _{mono}	$\frac{dT_{mono}}{dt} = F_3 - F_4 - n_5 F_{5f} + n_5 F_{5b}$	1
T	$\frac{dT}{dt} = F_{5f} - F_{5b} - F_6$	1
RNA	$\frac{dRNA}{dt} = F_7 - F_8$	1
G _{mono}	$\frac{dG_{mono}}{dt} = F_9 - F_{10} - n_{11} F_{11f} + n_{11} F_{11b}$	10
G	$\frac{dG}{dt} = F_{11f} - F_{11b} - F_{12}$	10

Note: Simulation results are not affected by initial concentrations.