

Table S1. CMV MIE Circuit Model Parameters

Symbol	Description	Value	Source
β	MIEP basal promoter rate	5.327 hour ⁻¹	See extended experimental procedures.
α	IE1 transactivation rate	12.398 hour ⁻¹	Model insensitive to varying this parameter
k_1	IE1 Michaelis constant	0.984	Model insensitive to varying this parameter
H_1	IE1 Hill coefficient	19.935	Model insensitive to varying this parameter
γ	IE2 repression strength	0.195	Fitting to Fig. 1E
k_2	IE2 Michaelis constant	0.784	Fitting to Fig. 1E
H_2	IE2 Hill coefficient	7.295	Fig. 2; Fitting to Fig. 1E
δ	MIE pre-mRNA decay rate	0.394 hour ⁻¹	Fitting to Fig. 1E
f	Fraction of IE1 spliced transcripts	0.67	(Nevels et al., 2004)
λ	Translation rate	0.025 hour ⁻¹	Fitting to Fig. 1E
δ_1	IE1 protein decay rate	0.032 hour ⁻¹	(Stamminger et al., 1991)
δ_2	IE2 protein decay rate	0.23 hour ⁻¹	Fitting to Fig. S6