

**Table S3.** Parameters of the minimal model in Eqs. (14-16). The values used in our simulations are shown. For  $\kappa_6$  we studied a range of values.

Parameter	Description	Value or range
$\kappa_1$	Her1 dimensionless production rate	10
$\kappa_7$	Her7 dimensionless production rate	10
$\kappa_6$	Hes6 dimensionless production rate	0 - 91
$\delta$	dimensionless effective dimer mediated degradation rate	1
$\tau_1$	dimensionless Her1 production delay	1.02
$\tau_7$	dimensionless Her7 production delay	1.00
$n$	phenomenological Hill coefficients describing effective cooperativity	2