

Table S2: Parameter values for the model in Table S1. Nominal values for the kinetic parameters are shown below, as published in Hirota *et al.*, 2012 [15].

	Parameter	Description	Value
1	$v_{\text{txn,p}}$	<i>Per</i> Transcription rate	0.195
2	$v_{\text{txn,c1}}$	<i>Cry1</i> Transcription rate	0.131
3	$v_{\text{txn,c2}}$	<i>Cry1</i> Transcription rate	0.114
4	$k_{\text{txn,p}}$	<i>Per</i> Repression constant	0.425
5	$k_{\text{txn,c}}$	<i>Cry1/2</i> Repression constant	0.259
6	$v_{\text{deg,p}}$	<i>Per</i> Max degradation rate	0.326
7	$v_{\text{deg,c1}}$	<i>Cry1</i> Max degradation rate	0.676
8	$v_{\text{deg,c2}}$	<i>Cry2</i> Max degradation rate	0.608
9	$k_{\text{deg,p}}$	<i>Per</i> Degradation constant	0.011
10	$k_{\text{deg,c}}$	<i>Cry1/2</i> Degradation constant	1.149
11	$v_{\text{deg,P}}$	Max PERc degradation rate	2.970
12	$k_{\text{deg,P}}$	PERc degradation constant	0.034
13	$v_{\text{deg,C1}}$	Max CRY1c degradation rate	1.523
14	$v_{\text{deg,C2}}$	Max CRY2c degradation rate	1.686
15	$k_{\text{deg,C}}$	CRYc degradation constant	2.017
16	$v_{\text{deg,CP}}$	CRYn degradation rate	0.101
17	m_{C2N}	CRY2n degradation multiplier	3.318
18	$k_{\text{deg,CP}}$	CRYn degradation constant	0.053
19	$v_{\text{a,CP}}$	CRYn association rate	0.041
20	$v_{\text{d,CP}}$	CRYn dissociation rate	0.002
21	$k_{\text{tl},\text{p}}$	PER translation rate	3.000