

PosRegSpont

Positiv	e regulation of LuxR, original & spontaneous lysis	
a1	AHL production rate of LuxI	4.28
DAHL	diffusion rate of AHL across the cellular membrane	1.65
k1	RA formation rate	3.45
k-1	RA dissociation rate	7.52
β1	degradation rate of cellular AHL	4.89
β2	degradation rate of external AHL	0.12
β4	degradation rate of RA2	2.49
β3	degradation rate of RA	0.14
a2	Leaky production rate of LuxI from pConst	0.00
a3	Maximum production rate of LuxI from pConst	3.02
Km1	Michaelis-Menten constant of pLuxA for RA	0.38
a5	Maximum production rate of LuxI from pLuxA	1.11
a4	Leaky production rate of LuxI from pLuxA	0.00
β5	LuxI degradation rate	3.68
a6	Leaky production rate of LuxR from pConst	0.08
a7	Maximum production rate of LuxR from pConst	1.02
a9	Maximum production rate of LuxR from pLuxA	1.94
a8	Leaky production rate of LuxR from pLuxA	0.00
β6	LuxR degradation rate	1.31
a10	Leaky production rate of Lysis from pLuxB	0.00
a11	Maximum production rate of Lysis from pLuxB	0.37
Km2	Michaelis-Menten constant of pLuxB for RA	6.60
β7	Lysis degradation	0.10
k2	formation & maturation rate of the full fluorescent protein	2.12
a12	Constitutive production of split FP	5.23
β8	Split FP degradation	0.09
a13	aiiA expression	0.00
β9	aiiA degradation	0.00
k3	aiiA activty	0.00











