

PosRegLuxR

Positive regulation of LuxR, increased LuxR degradation rate β6		
	diffusion rate of AHL across the cellular membrane	1.65
k-1	RA dissociation rate	7.52
k1	RA formation rate	3.45
k2	formation & maturation rate of the full fluorescent protein	2.12
k3	aiiA activty	0.00
Km1	Michaelis-Menten constant of pLuxA for RA	0.38
Km2	Michaelis-Menten constant of pLuxB for RA	6.60
a1	AHL production rate of LuxI	4.28
a10	Leaky production rate of Lysis from pLuxB	0.00
a11	Maximum production rate of Lysis from pLuxB	0.37
a12	Constitutive production of split FP	5.23
a13	aiiA expression	0.00
a2	Leaky production rate of LuxI from pConst	0.00
۵3	Maximum production rate of LuxI from pConst	3.02
a4	Leaky production rate of LuxI from pLuxA	0.00
a5	Maximum production rate of LuxI from pLuxA	1.11
a6	Leaky production rate of LuxR from pConst	0.08
۵7	Maximum production rate of LuxR from pConst	1.02
a8	Leaky production rate of LuxR from pLuxA	0.00
a9	Maximum production rate of LuxR from pLuxA	1.94
β1	degradation rate of cellular AHL	4.89
β2	degradation rate of external AHL	0.12
β3	degradation rate of RA	0.14
β4	degradation rate of RA2	2.49
β5	LuxI degradation rate	3.68
β6	LuxR degradation rate	1.71
β7	Lysis degradation	0.10
β8	Split FP degradation	0.09
β9	aiiA degradation	0.00







