NegRegLuxR

Negative regulation of LuxR, added aiiA		
α1	AHL production rate of LuxI	0.13
DAHL	diffusion rate of AHL across the cellular membrane	0.41
k1	RA formation rate	2.04
k-1	RA dissociation rate	4.84
β1	degradation rate of cellular AHL	0.51
β2	degradation rate of external AHL	0.10
β4	degradation rate of RA2	0.04
β3	degradation rate of RA	0.23
α2	Leaky production rate of LuxI from pConst	0.00
α3	Maximum production rate of LuxI from pConst	0.00
Km1	Michaelis-Menten constant of pLuxA for RA	0.43
α5	Maximum production rate of LuxI from pLuxA	0.46
α4	Leaky production rate of LuxI from pLuxA	0.00
β5	LuxI degradation rate	2.14
α6	Leaky production rate of LuxR from pConst	0.01
α7	Maximum production rate of LuxR from pConst	0.03
α9	Maximum production rate of LuxR from pLuxA	2.16
α8	Leaky production rate of LuxR from pLuxA	0.00
β6	LuxR degradation rate	0.68
α10	Leaky production rate of Lysis from pLuxB	0.00
α11	Maximum production rate of Lysis from pLuxB	0.40
Km2	Michaelis-Menten constant of pLuxB for RA	1.07
β7	Lysis degradation	0.10
k2	formation & maturation rate of the full fluorescent protein	2.00
α12	Constitutive production of split FP	5.00
β8	Split FP degradation	0.20
α13	aiiA expression	0.25
β9	aiiA degradation	5.00
k3	aiiA activty	8.00