Parameter	*Description*	*Value*	*Source*
C_{AMO}	Maximal transcription rate	0.08 min^{-1}	[11]
d_{mRNA_amo}	mRNA_amo degradation rate	0.005 min^{-1}	[10]
v_{amo}	Maximal translation rate	0.96 min^{-1}	[10]
k_1	Complex *AMO:chlor* formation reaction rate	2 $(\mu M \cdot min)^{-1}$	Assumed
k_{-1}	Complex *AMO:chlor* reverse rate constant	1 min^{-1}	Assumed
k_2	Complex *factor:*$COCl_2$ formation reaction rate	2 $(\mu M \cdot min)^{-1}$	Assumed
k_{-2}	Complex *factor:*$COCl_2$*reverse rate constant*	1 min^{-1}	Assumed
k_{COCl2}	$COCl_2$ formation rate constant	1 min^{-1}	Assumed
$d_{AMO:chlor}$	*AMO:chlor* degradation rate	0.002 min^{-1}	[10]
d_{AMO}	AMO degradation rate	0.02 min^{-1}	[10]
P	Permeability coefficient	0.24 cm/h	[15]
A_{int}	Interface surface	0.206 m^2	[3]
V_{cell}	Total volume of cells	0.04 ml	Estimated
C_{factor}	Maximal transcription rate	0.08 min^{-1}	[11]
d_{mRNA_factor}	$mRNA_{factor}$ degradation rate	0.005 min^{-1}	[10]
v_{factor}	Maximal translation rate	0.96 min^{-1}	[10]
k_3	*Complex:poly* formation reaction rate	2 $(\mu M \cdot min)^{-1}$	Assumed
k_{-3}	*Complex:poly* reverse rate constant	1 min^{-1}	Assumed
k_4	*Complex:promoter* formation reaction rate	2 $(\mu M \cdot min)^{-1}$	Assumed
k_{-4}	*Complex:promoter* reverse rate	1 min^{-1}	Assumed
k_I	*Non-active factor* formation rate	$1 \cdot 10^{10}$ $(M \cdot min)^{-1}$	Assumed
k_{-I}	*Non-active factor* reverse rate	1 min^{-1}	Assumed
d_{fH}	*Non-active factor* degradation rate	0.005 min^{-1}	[10]
$d_{factor:COCl2}$	*factor:*$COCl_2$ degradation rate	0.002 min^{-1}	[10]
$d_{complex:poly}$	*complex:poly* degradation rate	0.002 min^{-1}	[10]
$d_{complex:promotor}$	*complex:promotor* degradation rate	0.002 min^{-1}	[10]
C_{GFP}	maximal transcription rate	0.08 min^{-1}	[12]
d_{mGFP}	$mRNA_{GFP}$ degradation rate	$1.65 \cdot 10^{-3}$ min^{-1}	[13]
v_{GFPim}	Maximal translation rate	0.24 min^{-1}	[10]
k_5	Equilibrium GFP_{mis}-GFP constant forward rate	5 min^{-1}	Assumed
k_{-5}	Equilibrium GFP_{mis}-GFP constant reverse rate	1 min^{-1}	Assumed
k_{mis}	GFP_{mis} formation rate	1 min^{-1}	Assumed

Parameter	*Description*	*Value*	*Source*
k_{fold}	GFP formation rate	2 min^{-1}	Assumed
d_{GFPim}	GFP_{im} degradation rate	$2.14 \cdot 10^{-4}$ min^{-1}	[10]
d_{mis}	GFP_{mis} degradation rate	$2.14 \cdot 10^{-4}$ min^{-1}	[10]
d_{GFP}	GFP degradation rate	$2.14 \cdot 10^{-4}$ min^{-1}	[10]
k_{Dg}	Mass transfer coefficient from bulk to gas.	$2.48 \cdot 10^{-3}$ L/s	Estimated
m_g	Equilibrium constant bulk-gas	0.4533 $M_{bulk}/M_{gas\ phase}$	Estimated
V_g	Gas volume	10 ml	Experimental
V_b	Bulk volume	40 ml	Experimental
DNAamo	Concentration of DNA coding AMO in the cell	0.06 µM	[3]
DNAfactor	Concentration of DNA coding sigma70 factor	0.06 µM	[3]
Promoter	Concentration of mbla in the cell	0.06 µM	[3]
poly	Concentration of RNA polymerasa in the cell	0.239 µM	[3]
a	Inhibition parameter	5.37	Estimated
b	Inhibition parameter	0.41	Estimated
c	Inhibition parameter	4.14	Estimated
m_{in}	Equilibrium constant cell-bulk	1 M_{bulk}/M_{cell}	