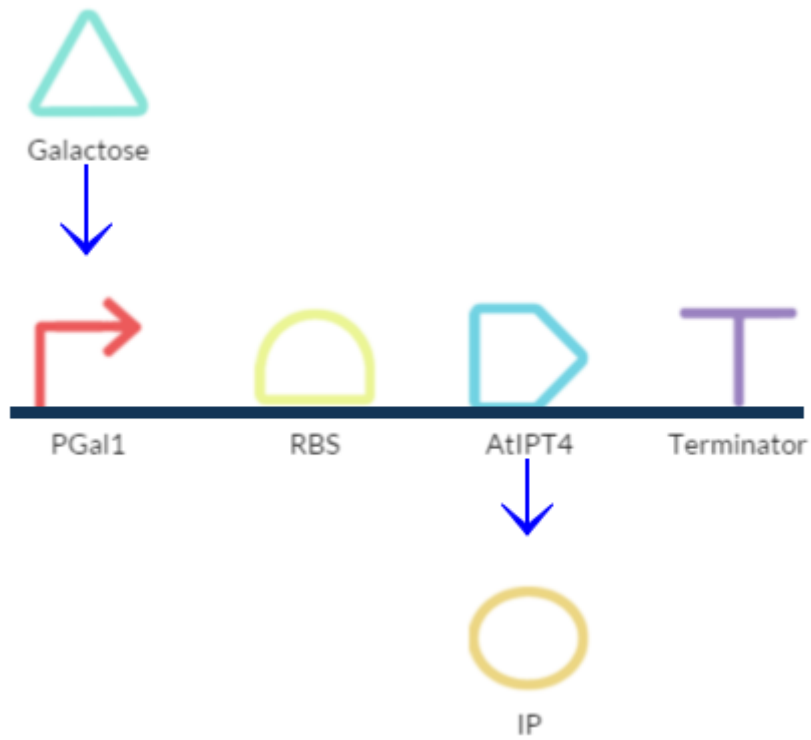


Regulation_2



Formulae for two certain parts

IP and AtIPT4

$$\frac{d[IP]}{dt} = \chi_{PGal1} \alpha_{IP} [AtIPT4^F] - (k_{dip} + k_{dil}) [IP]$$

$$[AtIPT4^F] = [AtIPT4] \frac{[Galactose]^n}{\chi_{PGal1} Kd + [Galactose]^n}$$

Parameter Table

Symbols	Parameters	Values and Units
Alpha_IP	Production rate of IP	2.47umol*min ⁻¹
n	Hill coefficient	2
Kd	Repression coefficient	2.8
K_dip	Dissipation rate of cells	1.5(umol/ul)*min ⁻¹
K_dil	Dilution rate of cells	1.27(umol/ul)*min ⁻¹

Reference: http://2008.igem.org/Team:University_of_Ottawa/Project