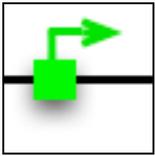


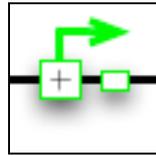
# Key for Diagrams- Using sBOL-V



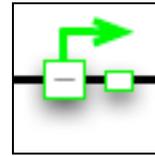
“AND” Gate- both inputs are necessary for an output.



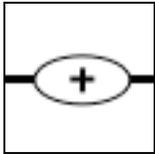
**Constitutive Promoter**



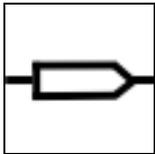
**Inducible Promoter**



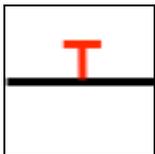
**Repressible Promoter**



**Ribosome Binding Site**



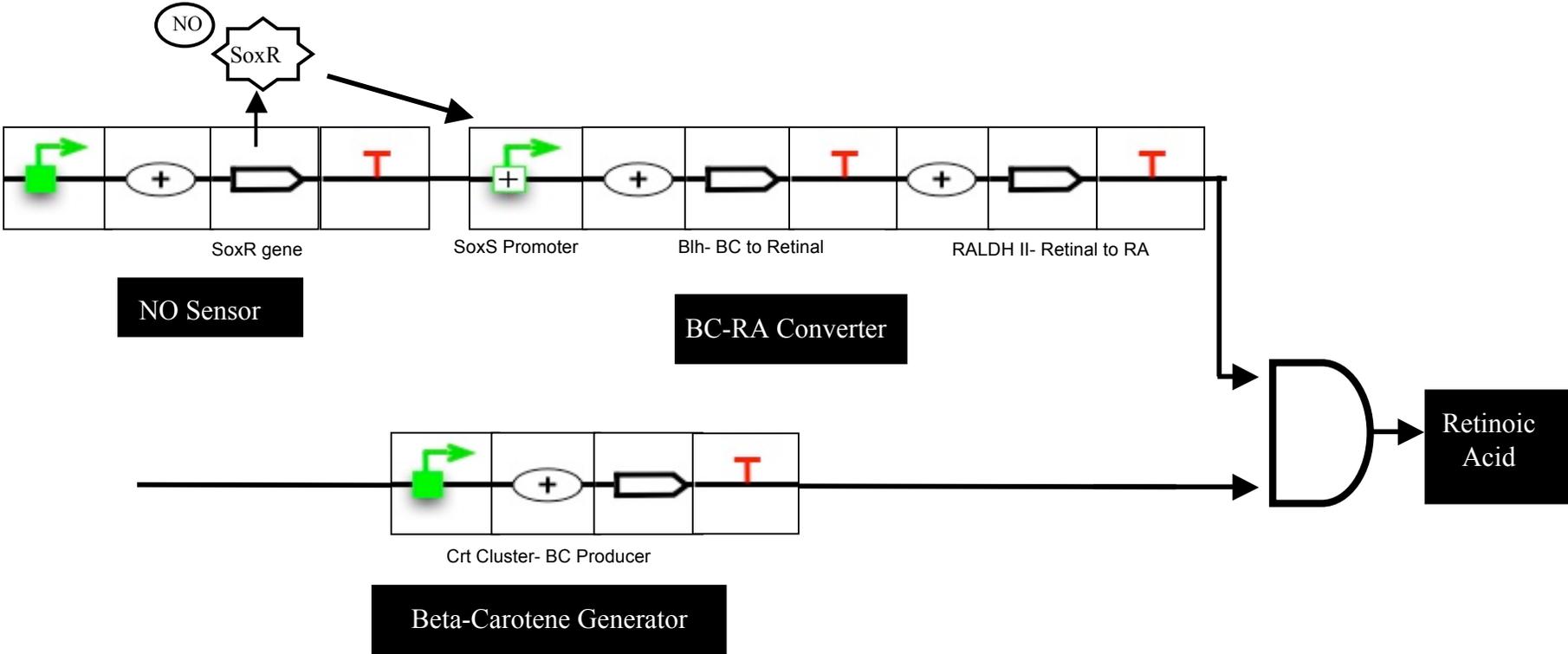
**Open Reading Frame**



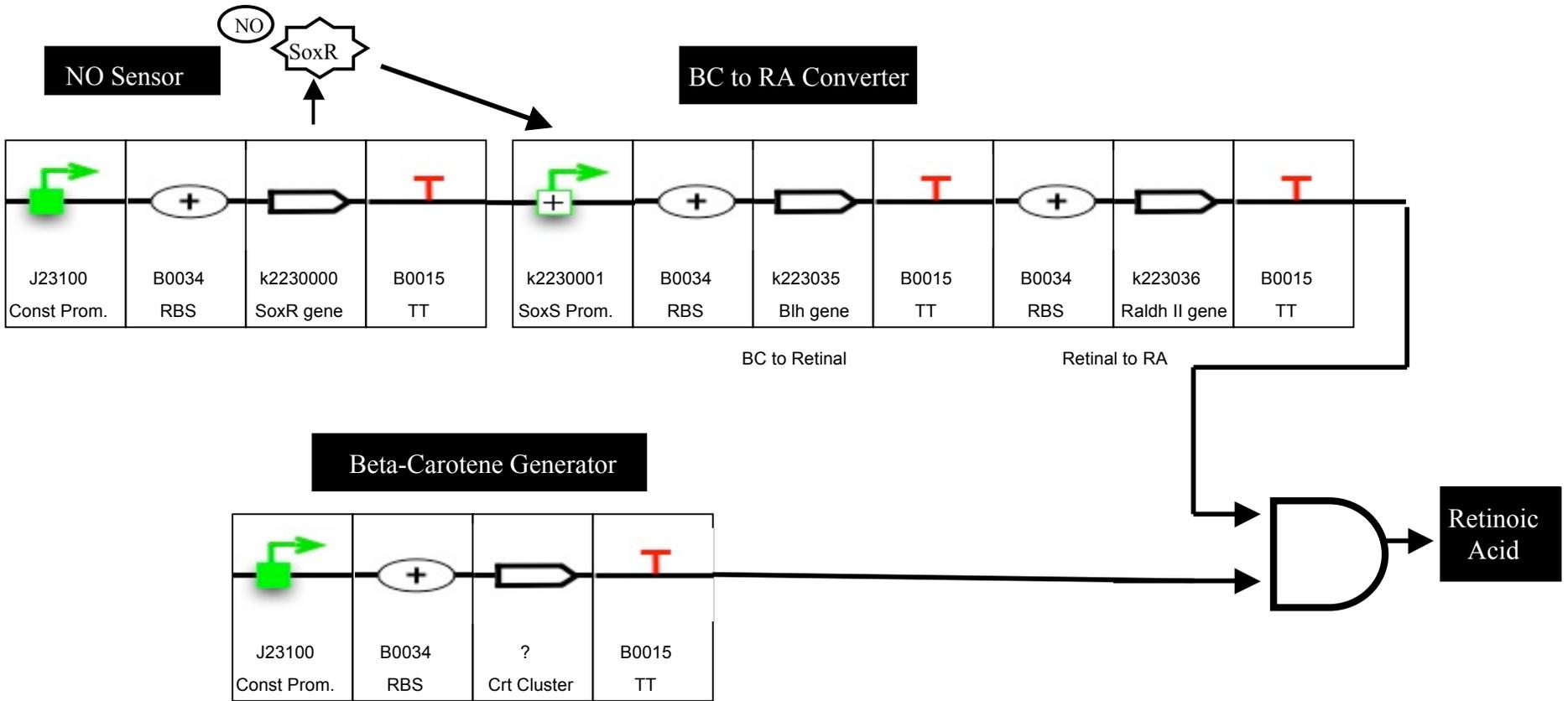
**Terminator**



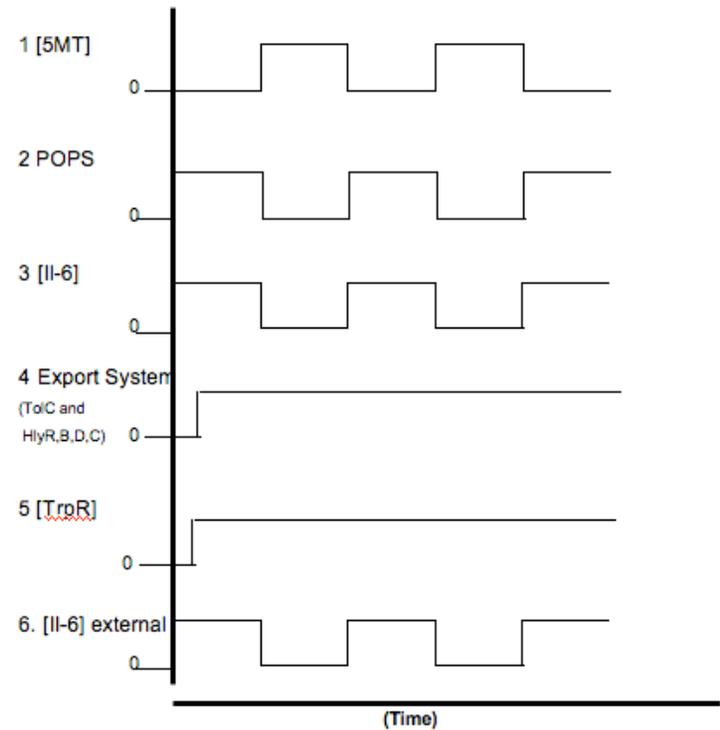
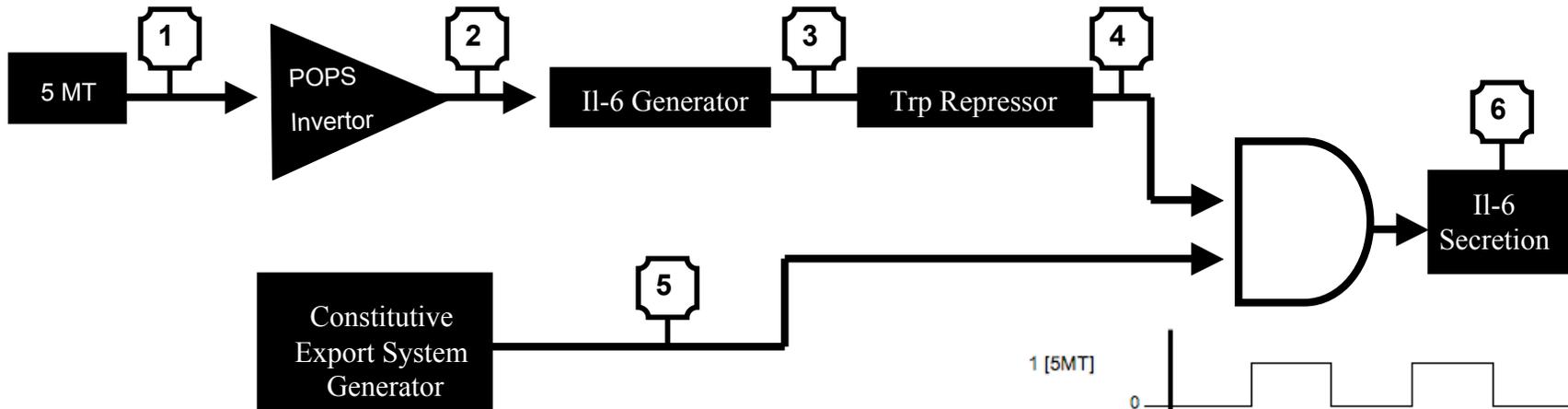
# Device 1- Oxidative Stress Induced RA Generator



# Device 1- Oxidative Stress Induced RA Generator



# Device 2- Il-6 Secretion System

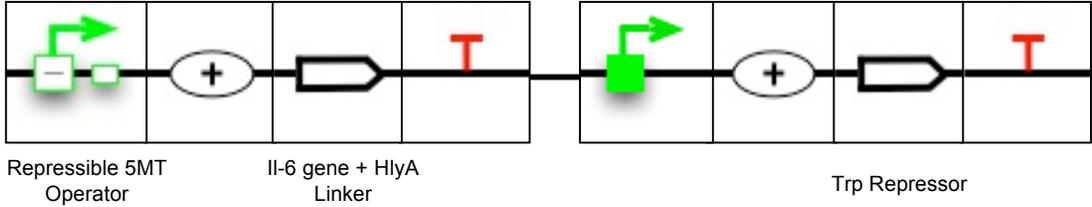


# Device 2

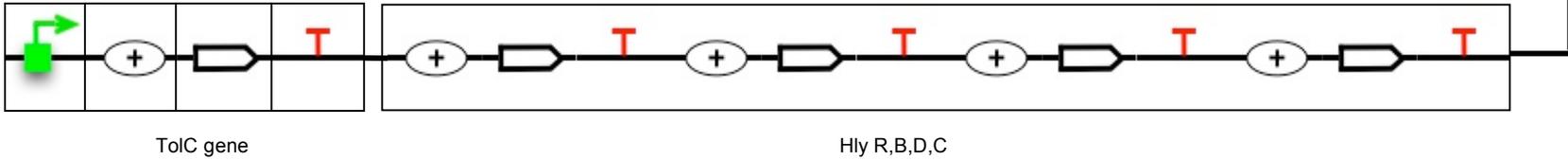
## 5MT Level Sensitive Sensor

## Il-6 Generator

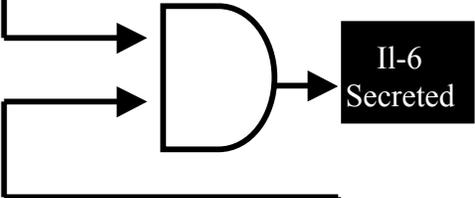
## Trp Repressor



## Export System

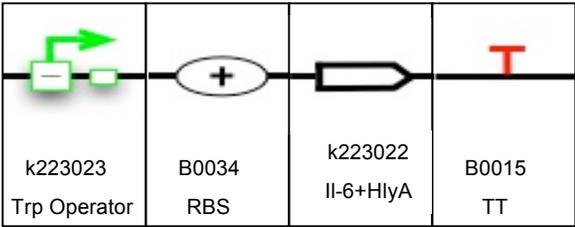


Create an Export Channel and Chaperone



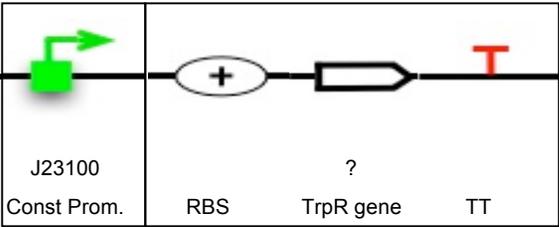
# Device 2

## 5MT Level Sensitive Sensor



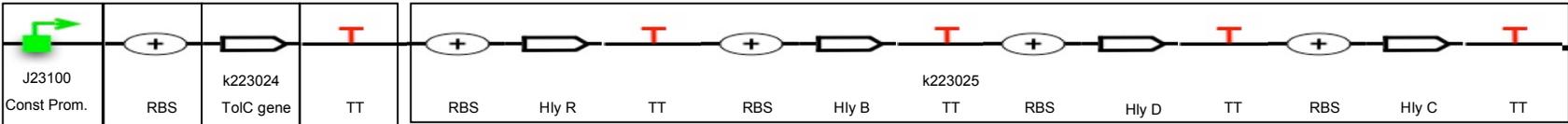
Il-6 + HlyA Linker allows Il-6 to leave through the export channel

## Il-6 Generator

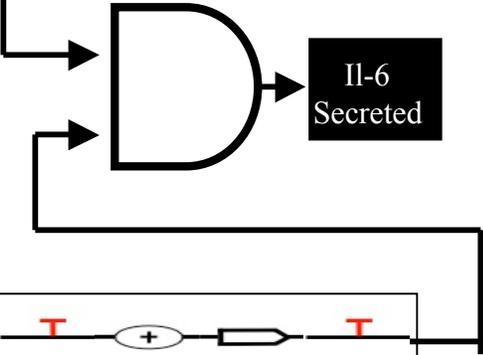


Trp Repressor

## Export System



Create an Export Channel and Chaperone



Il-6 Secreted