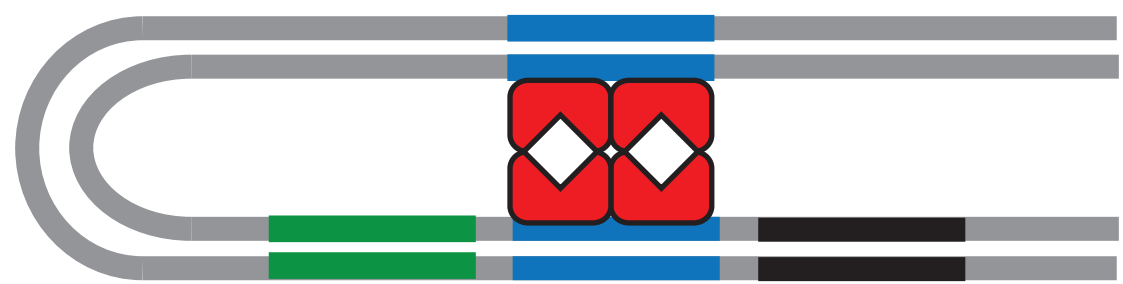


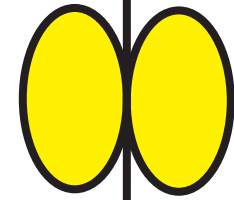
# Looped State



$\epsilon k_{ts}$



$k_{tl}$



Active Transport

$k_{unloop}$

$k_{loop}$

# Off State



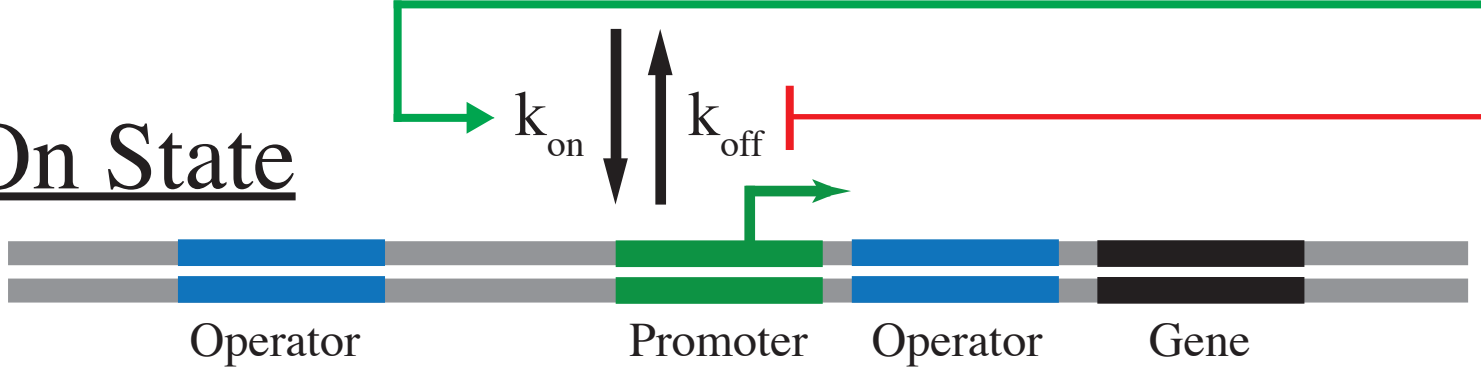
Repressor Tetramer

Inducer

Passive Transport

Transport

# On State



Operator

Promoter

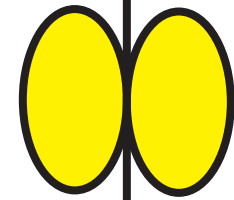
Operator

Gene

$k_{ts}$



$k_{tl}$



LacY Protein

Active Transport



Free Repressor Dimer with Inducer Bound

mRNA

$k_{degm}$

$k_{degp}$

Degraded

