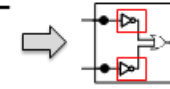
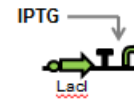
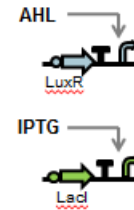


NAND Gate

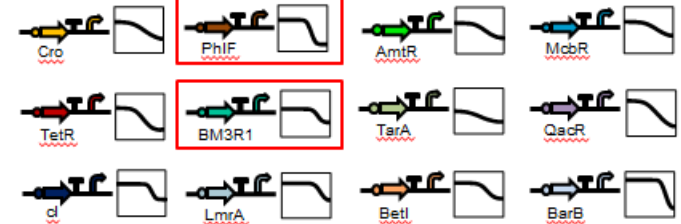
IN	OUT
0	1
0	1
1	0
1	0



"Sensors"



Orthogonal Circuit Library



ComponentDefinition

Collection - ComponentDefinition
T7 Cas9 -based

T7 promoter
CDS – Cas9
Terminator

U6-gRNA
U6 promoter
gRNA
Terminator

CRISPR complex
Cas9 protein
gRNA

Target
genomic DNA

ModuleDefinition

Collection - Interaction

CRISPR complex Cas9 & gRNA combine to form CRISPR complex

Participant Cas9 protein, gRNA

FunctionalComponent

Cas9 protein

Input

gRNA

Input

CRISPR

Output

Gene Cleavage CRISPR & Genome cleavage

Participant CRISPR complex, genome site

FunctionalComponent

CRISPR complex

Input

genomic site

Input

cleavage site

Output

Model

CRISPR genome cleavage.sbml

