

Operon 2


- 16 steps
- 'low' setting
- 4 restriction digests
- 4 ligations
- 4 transformations
- 4 plasmid extractions

Parts


- ① Bba_KO 91104 - Promoter, repressed by Mnt & lacI
- ② Bba_BOO34 - (Normal) RBS
- ③ Bba_COO 40 - Tet R gene (to repress operon 1)
- ④ Bba_E 0030 - YFP Gene
- ⑤ Bba - BOO15 - Terminator

Plasmid Backbones

- ⑥ pSB1K3 - Kanamycin resistant
- ⑦ pSB1C3 - Chloramphenicol resistant
- ⑧ pSB1T3 - Tetracycline resistant

AmpR = 

KanR = 

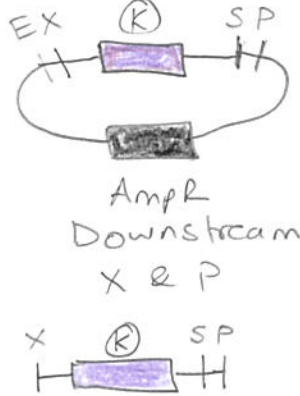
ChlorR = 

TetR = 

1) Transform all parts into

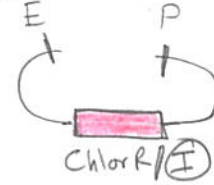
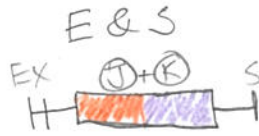
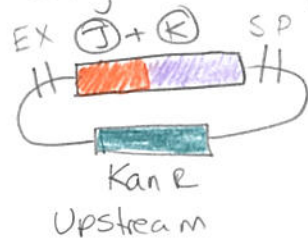
competent cells to grow up on plates & multiply plasmid with the biobrick on it for later use. Plasmid Extractions before use

2) & 3) Digest & Ligation of ① + ② onto ⑥

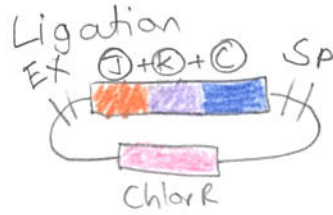


4) & 5) Transform the above plasmid into competent cells to multiply it. Plasmid extraction & purification

6) & 7) Digest & Ligation of (J&K) + (C) onto (I)

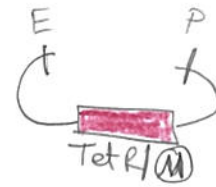
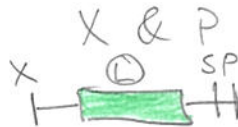
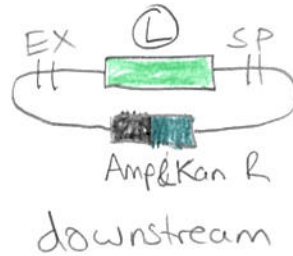
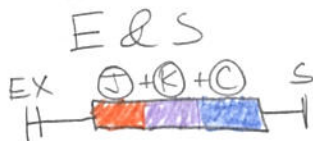
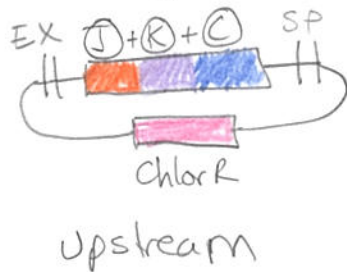


E & P



8) & 9) Transform the above plasmid into competent cells to multiply it. Plasmid extraction & purification

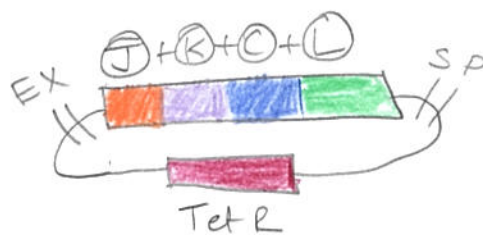
10) & 11) Digest & Ligation of (J&K & C) + (L) onto (M)



E & P

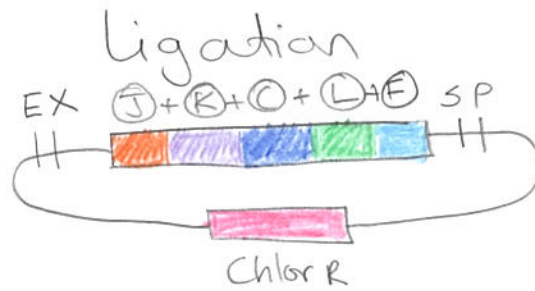
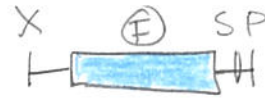
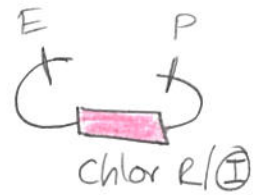
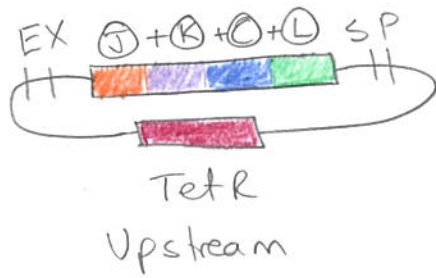


Ligation



12) & 13) Transform the above plasmid into competent cells to multiply it. Plasmid extraction & purification.

14) & 15) Digest & ligation of ((J&K&C&L)) + (F) onto (I)



16) Transformation of finished plasmid into competent cells to multiply it.