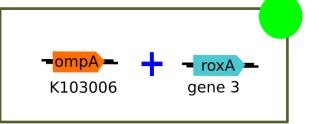


OmpA_RoxA



1st Day:

EXSP Digestion (see Enzymatic Digestion Protocol)

	Part	Size	ηg/μl
1	RoxA	2037 bp	100
2	K103006	464 bp	145.7

	Volume to 1,0 μg (μl)	Buffer 10x (μl)	Enzime 1	Volume (µl)	Enzime 2	Volume (µl)	H2O to 50μl (μl)
1	6	2 (Tango)	X	1	SacI	1	10
2	9	2 (Tango)	X	1	SacI	1	7

Final Plasmid	Resistence
pSB1C3	chloramphenicol

Gel purification

- See PureLink® Quick Gel Extraction Kit Invitrogen™ manual
- Quantify digestion products

Parts	ηg/μl
RoxA	5.1
K103006	7.9

Obs: 260/280 in a quality parameter that tells you if your sample is contaminated with proteins. The greater it is compared to 1 the less contaminants you have.

Ligation (see Ligation Protocol)

Part containing the plasmid		9.8 µl
Insert	OmpA	2.2 μl
10x T4 DNA Buffer	2 μ1	
T4 DNA ligase 1u	NA ligase 1u 0.5 μ1	
H2O to 20µl	5.5 μl	

Obs: To determinate the amount of DNA necessary we used the following equation

Insert $ng = plasmid ng \times insert bp plasmid bp \times insert: plasmid ratio$

- Incubate overnight at 37°C.
- Prepare and sterilize in the autoclave tubes with 6 ml of liquid LB medium.
- Prepare glycerol 40%

2nd Day:

Transformation (see Transformation Protocol in Escherichia coli DH5-α)

• Organism: E. coli DH5-α

• Selection: Chloramphenicol

4th Day:

Confirmation with NotI