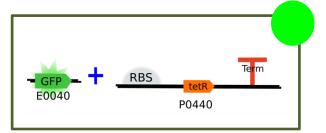
Assembly:





1st Day:

EXSP Digestion (see Enzymatic Digestion Protocol)

	Part	Size	ηg/μl
1	E0040	720 bp	85.9
2	P0440	840 bp	115.4

	Volume to 1,0 μg (μl)	Buffer 10x (µl)	BSA	Enzime 1	Volume (µl)	Enzime 2	Volume (µl)	H2O to 20μl (μl)
1	11.6	2 (M)	-	S	1	P	1	4.3
2	8.7	2 (M)	2	X	1	P	1	5.3

Final Plasmid	Resistence
pSB1A2	ampicillin

Gel purification

- See PureLink® Quick Plasmide Miniprep Invitrogen™ manual
- Quantify digestion products

Parts	ղց/μl
E0040	8.2
P0440	12.7

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		6 µl
Insert	P0440	3.5 µl
10x T4 DNA Buffer	4 μ1	
T4 DNA ligase 1u	0.5 μl	
H2O to 20µl	6 μ1	

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: Ampcillin

4th Day:

Confirmation with NotI