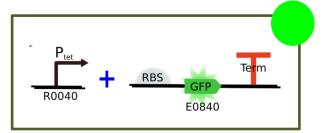
# Assembly:

Pt\_E0840



## 1st Day:

## EXSP Digestion (see Enzymatic Digestion Protocol)

	Part	Size	ηg/μl
1	R0040	54 bp	164.3
2	E0840	878 bp	171.0

	Volume to 1,0 μg (μl)	Buffer 10x (μl)	BSA (µl)	Enzime 1	Volume (µl)	Enzime 2	Volume (µl)	H2O to 50μl (μl)
1	12.2	2 (M)	-	S	1	P	1	3.80
2	11.7	2 (M)	2	X	1	P	1	2.30

Final Plasmid	Resistence
pSB1C3	chloramphenicol

## Gel purification

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

Parts	ղց/μl
R0040	5.3
E0840	7.3

**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		9.3
Insert	E0840	8.5
10x T4 DNA Buffer	2	
T4 DNA ligase 1u 0.4		.4
H2O to 20µl	-	

**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%

### 2<sup>nd</sup> Day:

Transformation (see Transformation Protocol in Escherichia coli DH5- $\alpha$ )

- Organism: E. coli DH5-α
- Selection: Ampcillin

### 4th Day:

Confirmation with NotI.