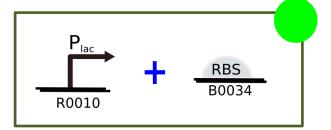


Pl\_RBS



# 1st Day:

# EXSP Digestion (see Enzymatic Digestion Protocol)

	Part	Size	ηg/μl
1	R0010	200 bp	75.7
2	B0034	12bp	103.2

	Volume to 1,0 μg (μl)	Buffer 10x (μl)	BSA	Enzime 1	Volume (µl)	Enzime 2	Volume (µl)	H2O to 50μl (μl)
1	3	2 (M)	-	Е	1	S	1	13
2	6.3	2 (M)	-	Е	1	X	1	9.7

Final Plasmid	Resistence
pSB1A2	ampicillin

### Gel purification

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

Parts	ηg/μl
R0010	9.1
B0034	14.3

**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		3.5
Insert	R0010	2
10x T4 DNA Buffer	2	
T4 DNA ligase 1u 0.4		.4
H2O to 20µl	12	

**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-α)

• Organism: E. coli DH5-α

• Selection: Ampcillin

### 4th Day:

Confirmation with NotI