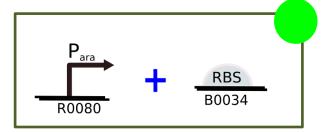


Pa_RBS



1st Day:

EXSP Digestion (see Enzymatic Digestion Protocol)

	Part	Size	ηg/μl
1	R0080	149 bp	108.2
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 20μl (μl)
1	6.8	2 (M)	-	Е	1	S	1	9.2
2	6.3	2 (M)	-	Е	1	X	1	9.7

Final Plasmid	Resistence
pSB1A2	ampicillin

Gel purification

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

Parts	ηg/μl
R0080	4.2
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	R0080	2.5	
10x T4 DNA Buffer	2		
T4 DNA ligase 1u	0.4		
H2O to 20µl		11.5	

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