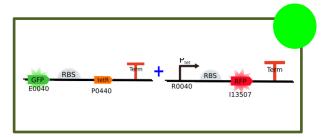
Assembly:

GFP_I13507



1st Day:

EXSP Digestion (see Enzymatic Digestion Protocol)

	Part	Size	ηg/μl	
1	GFP_P0440	1560 bp	142.6	
2	Pt_I13507	1025 bp	77.8	

	Volume to 1,0 μg (μl)	Buffer 10x (μl)	BSA	Enzime 1	Volume (µl)	Enzime 2	Volume (µl)	H2O to 20μl (μl)
1	7	2 (M)	-	XbaI	1	PstI	1	9
2	13	2 (M)	-	SpeI	1	PstI	1	3

Final Plasmid	Resistence
pSB1A2	ampicillin

Gel purification

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

Parts	ηg/μl
GFP_P0440	11.1
Pt_I13507	6.9

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	Pt_I13507	7 μl
Insert	GFP_P0440	7 μl
10x T4 DNA Buffer	4 μ1	
T4 DNA ligase 1u 0.5 μl		μl
H2O to 20µl	1.5 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: Ampcillin

4th Day:

Confirmation with NotI