

COLOR CODING KEY

Spectrophotometry Measurements

Construct Group

Plasmid Group

Interlab

Cell Culture/Plating

Biobrick Group

Cyanobacteria Transformation Group

Experimental Verification

Plasmid & Construct Design Group

Week 16

September 17, 2018

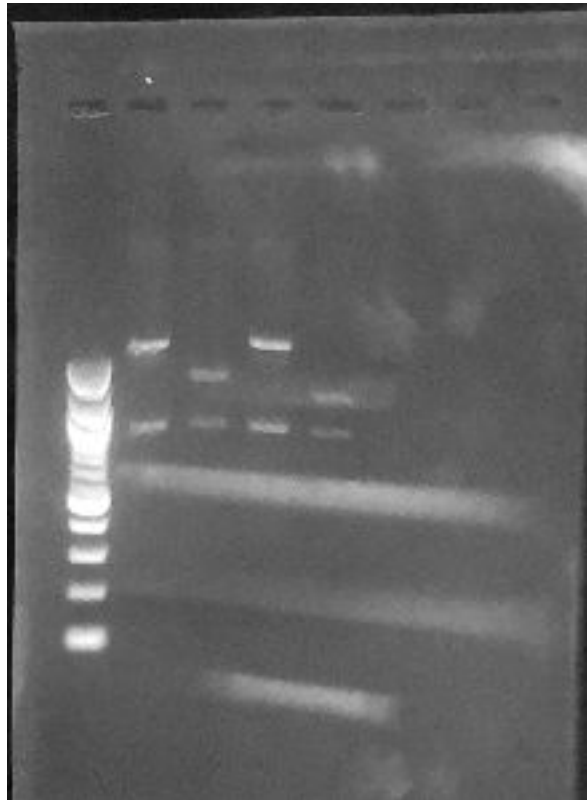
Biobrick Group (Natalie/Priya/Karthik)

- Miniprep of *idiA* and *cpc*
- PCR of *cscB* and *psbA2*
- RE digested the backbone
- PCR purified
- RE digested PCR products with *EcoRI* and *PstI*
- RE digested *idiA* with *XhoI* and *cpc* with *PstI* and *EcoRV*

September 18, 2018

Biobrick Group (Natalie/Jenn)

- Ran gel for *idiA* digested products:



- 1. MW ladder 100 bp

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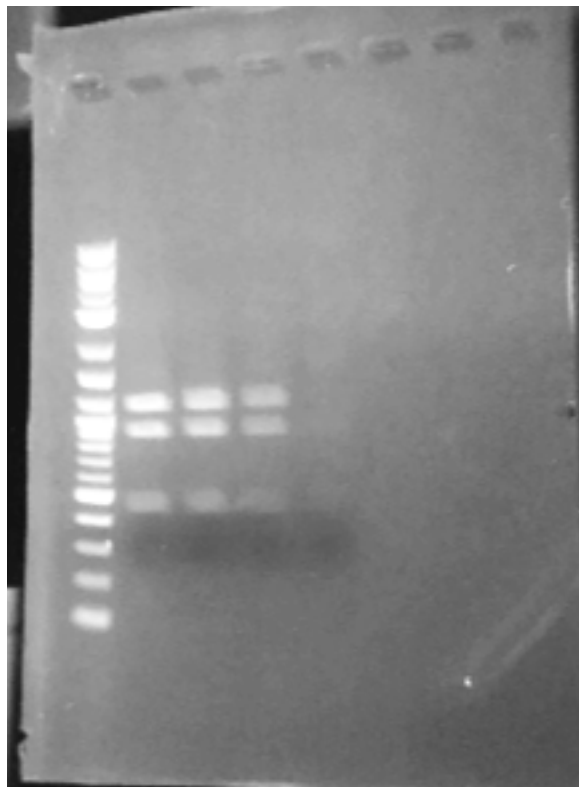
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- 2. idiA colony 1
- 3. idiA colony 2
- 4. idiA colony 3
- 5. idiA colony 4
- Ran gel for cpc digested products



- 1. MW ladder 1kb
- 2. Cpc colony 1
- 3. Cpc colony 2
- 4. Cpc colony 3
- 5. Cpc colony 4

September 20, 2018

Biobrick Group (Natalie/Karthik/Priya)

- Ligation of psbA2 and cscB

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- Transformation of psbA2

Experimental Verification

- 150 mM NaCl, 8 mM of HEPES, BG-11 50 mL, 1 mL of cyano inoculum

September 21, 2018

Experimental Verification (Karthik/Priya)

- Luciferase experiment for idiA
- Salt stress (NaCl) for 1 hour