

<h1>iGEM2013 – Microbiology – BMB – SDU</h1>	
Project type: USER Cloning	Creation date: 31/7-13
Project title: USER cloning of SDM DXS (B. sub) for Composite Production System	Written by: MH
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Sub project:	

1. SOPs in use

SOP0006_v01 PCR protocol for USER cloning

2. Purpose

To perform USER cloning of Dxs (b. sub), which has undergone site directed mutagenesis, for use in CPS.

3. Overview

4. Materials required

Materials in use

Name	Components (Concentrations)	Manufacturer / Cat. #	Room	Safety considerations

5. Other comments

6. Experiment history

Date (YY.MM.DD)	SOPs	Alterations to SOPs and remarks to experiments
31/07-13	SOP0006_v01 SOP0014_v01 SOP0013_v01	A gradient PCR was performed at the following annealing temperatures: 49.8 52.1 54.7 56.8 Otherwise, the SOP was followed, and the samples mixed in the PCR tubes. Template: 68 Primers: 46, 47 Gel purification All four bands of DXS were cut from the gel and purified. The bands from well no 1 and 2 were purified in the same tube and the bands from well no 3 and 4 were purified in the same tube. The concentrations of the gel purifications were measured.

7. Sample specification

Sample name	Sample content	From	Used for / Saved where
Grøn 90	USER DXS PCR product from primers 46 and 47		iGEM fridge
Grøn 91	USER DXS PCR product from primers 46 and 47		iGEM fridge

8. Remarks on setup

9. Results and conclusions

31.07.13

Results for USER PCR. 50 µL was loaded in each well on a 1% agarose gel. Ladder: red.

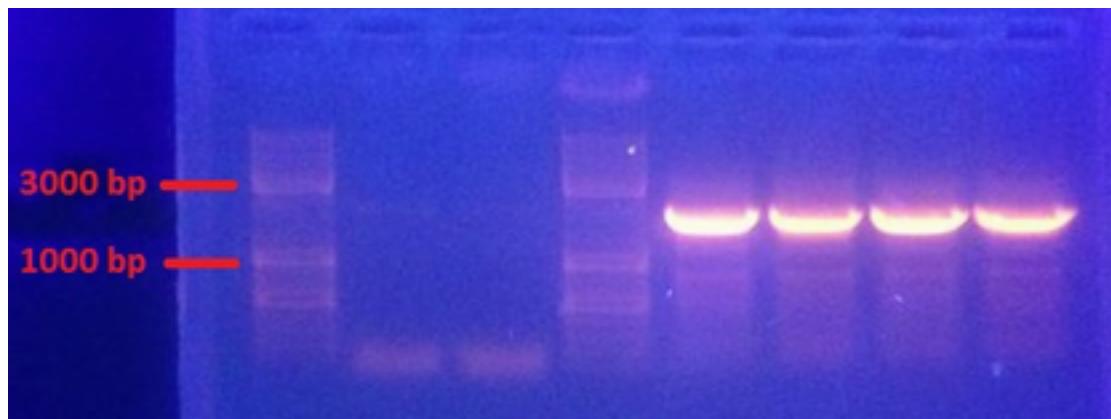
Order of well load:

Red ladder

- 1) pSB1C3 til CPS
- 2) pSB1C3 til CPS

Red ladder

- 4) DXS B.sub til CPS with annealing temp. 49.8 deg
- 5) DXS B.sub til CPS with annealing temp. 52.1 deg
- 6) DXS B.sub til CPS with annealing temp. 54.7 deg
- 7) DXS B.sub til CPS with annealing temp. 56.8 deg



Bands appeared in well 4-7. The bands were cut out and purified.

31.07.13

Results for gel purification. The concentration of DXS in sample Grøn 90 was 95,7 ng/µL and in sample 91 was 65,7 ng/µL.

10. Appendices

