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# BSCI:414 Lab 8 Transform and Miniprep Plasmid Containing SARS-CoV-2 Spike Gene

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1 Works for me

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## ABSTRACT

Received 3ul plasmid containing SARS-CoV-2 spike gene from Xiaopin Zhu at UMD. I performed transformation and plated on LB plates containing 100ug/ml ampicillin.

I selected a positive colony and grew overnight in 5mL LB media supplemented with 100ug/mL ampicillin.

A miniprep was performed on the culture.

## PROTOCOL CITATION

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<https://protocols.io/view/bsci-414-lab-8-transform-and-miniprep-plasmid-cont-bnvvme66>



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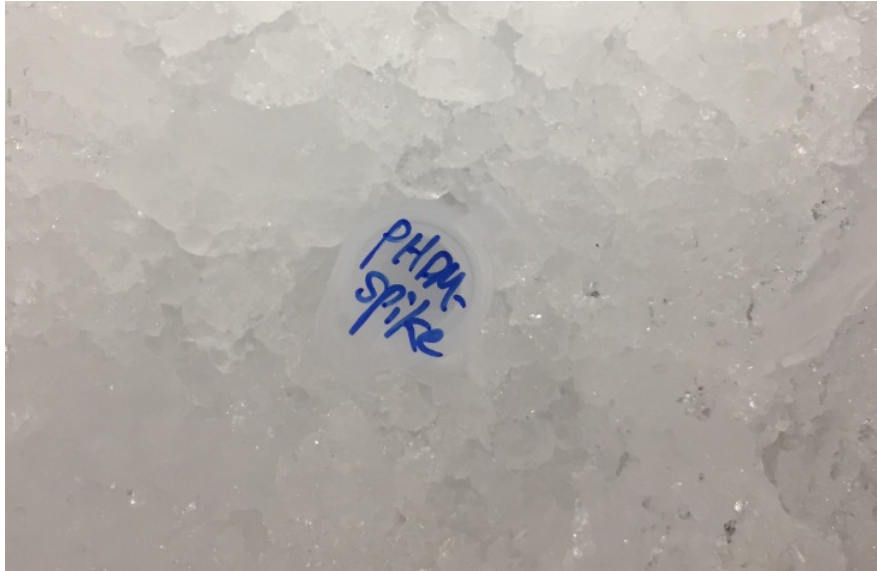
## ABSTRACT

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- 1 Receive plasmid containing SARS-CoV-2 spike gene from Xiaoping Zhu @ UMD VetMed.  
Link to [plasmid in Benchling](#).

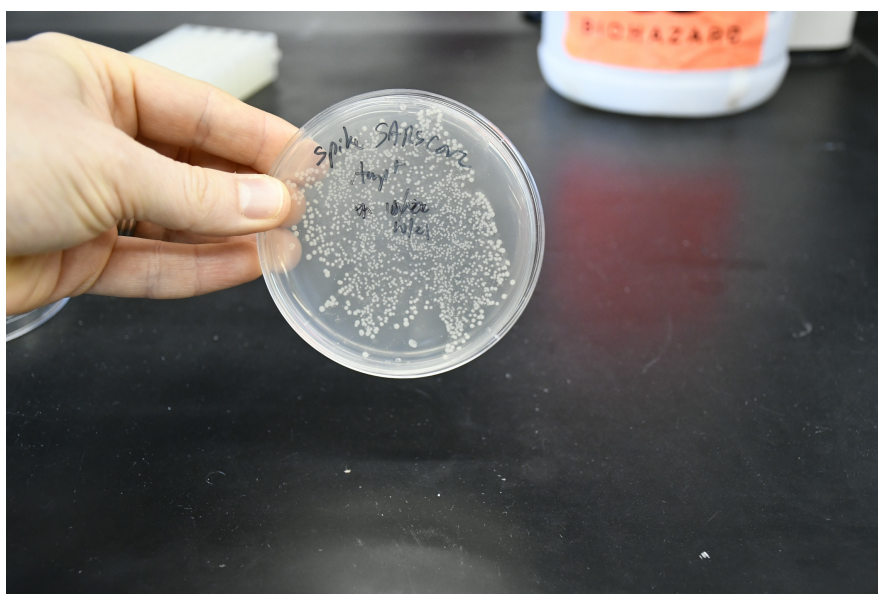


Plasmid "pHDM-Spike" contains the SARS-CoV-2 spike gene.

- 2 Transform "pHDM-Spike" plasmid containing SARS-CoV-2 spike gene into chemically competent Dh10B cells and select on LB ampicillin plates.

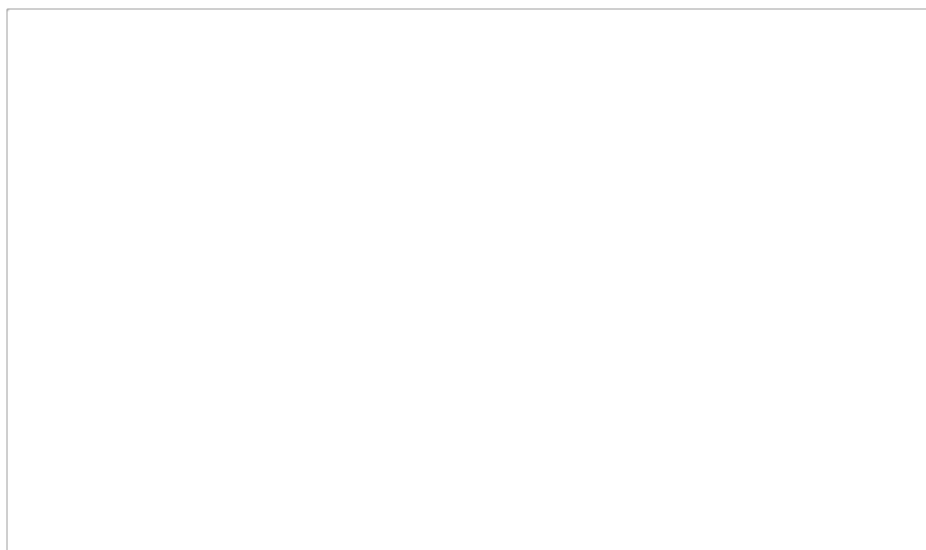


Chemically competent DH10B cells.

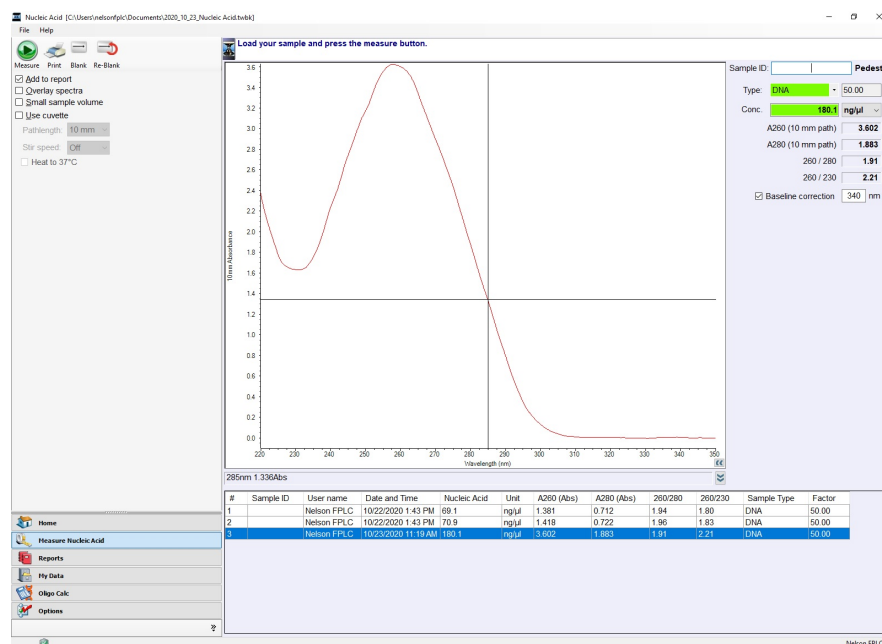


Positively-selected cells containing plasmid "pHDM-Spike" on Amp+ LB plates.

### 3 Watch miniprep video.



### 4 Quantify plasmid concentration using Nanodrop Spectrophotometer.



Plasmid concentration is 180ng/ul.

### 5 Great. Purified plasmid. What can we do with it?