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Banana sensor sfGFP test

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1

Works for me

This protocol is published without a DOI.

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ABSTRACT

The goal of this protocol is to ensure that our lab technique and environmental circumstances are compatible to this experiment. Based on iGEM team EPFL 2019, we try to define a concentration of Toehold switch and trigger DNA sequence which has a high protein expression(sfGFP in this case) but low or no leakage at same time.

THIS PROTOCOL ACCOMPANIES THE FOLLOWING PUBLICATION

<https://www.protocols.io/view/toehold-testing-pure-system-protein-production-73ehqje>

PROTOCOL CITATION

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MANUSCRIPT CITATION please remember to cite the following publication along with this protocol

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GUIDELINES

All the materials are sensible to temperature, as a result, keep them on ice. In order to keep all the wells starting at the same time, drop different solution and reagent to their own corner separately (follow the picture).

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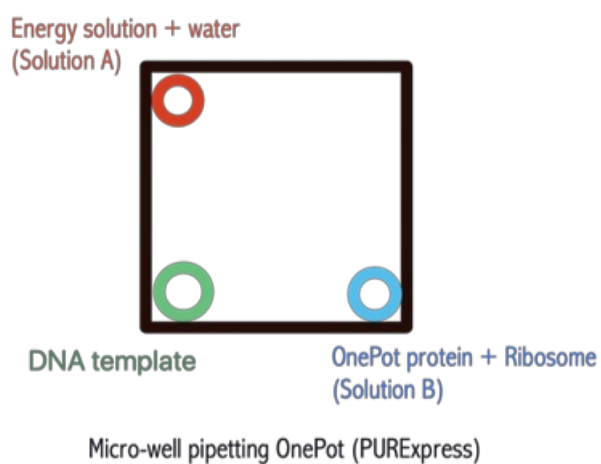
Preparation

- 1 Sterilize the bench, and put on a labmat
- 2 Thaw the reagents **On ice**

- 3 Set the microplate (384 well plate) reader machine

Protocols

- 4 Spin down or gently shake the tube before adding (especially solution A and DNA plasmid)
- 5 Separate the droplets in the different corners of the well (as the picture below)



This picture is from iGEM EPFL

- 6 Seal the plate with microseal 🧊 **On ice**
- 7 Centrifuge 🌀 **4000 rpm** , ⌚ **00:01:00** , 🌡 **4 °C**
- 8 Place the plate in the readers, make sure the setting is correct, and start the measurement
- 9 After ⌚ **02:00:00** of measurement, save the data, and turn off all the machines