

•



#### Oct 24, 2020

# Improve

## Hung Yu Chen<sup>1</sup>, Huan Jui Chang<sup>1</sup>

<sup>1</sup>Chung Shan Medical University

1 Works for me

This protocol is published without a DOI.

### Chung Shan Medical University



#### PROTOCOL CITATION

Hung Yu Chen, Huan Jui Chang 2020. Improve . **protocols.io** https://protocols.io/view/improve-bnw2mfge

#### LICENSE

This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

CREATED

Oct 24, 2020

LAST MODIFIED

Oct 24, 2020

PROTOCOL INTEGER ID

43706

### In vitro protIn vitro protein synthesis

1 Add the reagents (on ice) for synthesis of amilCP into 15 wells of the 384-well plate. Pipette well before adding reagents into the wells.

#### banana amilCP

Order	Location	Reagent	Amount
1	Upper-left	DNase/ RNase free water	till 5 µL
2	Upper-left	Solution A	2 μL
3	Lower-right	Solution B	1.5 μL
4	Lower-right	RNase inhibitor	0.2 μL
5	Lower-left	banana amilCP	50 ng
		Total	5 μL

## banana trigger + banana amilCP

Order	Location	Reagent	Amount
1	Upper-left	DNase/ RNase free water	till 5 µL
2	Upper-left	Solution A	2 μL
3	Lower-right	Solution B	1.5 μL
4	Lower-right	RNase inhibitor	0.2 μL
5	Lower-left	banana amilCP	50 ng
6	Lower-left	banana trigger	50 ng
		Total	5 μL

T7 Strong Promoter + amilCP

Order	Location	Reagent	Amount
1	Upper-left	DNase/ RNase free water	till 5µL
2	Upper-left	Solution A	2 μL
3	Lower-right	Solution B	1.5 μL
4	Lower-right	RNase inhibitor	0.2 μL
5	Lower-left	T7 Strong Promoter amilCP	50 ng
		Total	10 μL

Do triple repeat				
	Do triple repeat	Do triple repeat	Do triple repeat	Do triple repeat

- 2 Seal the plate with microseal (on ice)
- 3 Centrifuge (4000rpm, 0.01 (1 min), 4°C)

## Setup plate reader

Temperature: Setpoint 37°C
Shake: Orbital for 1:00 (1 min)
Start Kinetic [Run 6:00:00 (6 hour), Internal 0:05:00 (5 min)]
Read: (A) 588 nm
End Kinetic

## Incubation

5 Put the plate into plate reader.
Incubate the mixture and measure the fluorescence in plate reader follow Setup 1 for 06:00:00

#### Measuring

6 Measure the fluorescence excitation and emission intensity of the parts.