Oct 24, 2020

Colony PCR

DOI
dx.doi.org/10.17504/protocols.io.bnwrmfd6

Zhujun Wei[1]

[1]Northeast Forest University

2020 iGEM NEFU China

Zhujun Wei

OPEN ACCESS

DOI: dx.doi.org/10.17504/protocols.io.bnwrmfd6

Protocol Citation: Zhujun Wei 2020. Colony PCR. **protocols.io https://dx.doi.org/10.17504/protocols.io.bnwrmfd6**

Protocol status: Working
We use this protocol and it's working

Created: October 23, 2020

Last Modified: October 24, 2020

Protocol Integer ID: 43697

Abstract

This PCR method can be used to screen for inserted target genes or DNA sequencing analysis.

Materials

2×high Taq Master Mix (Enzyme)
Template
F/R primers
ddH2O
Bio-rad S1000TM Thermo Cycler.

Safety warnings

Please wear gloves for the experiment, don't try to touch the lid after PCR program initiation.

Before start

Synthesize primers in advance.

1 Pick colonies as the template for colony PCR. The number picked for each plate depends on the difference between the positive and negative controls.

	2×high Taq Master Mix (Enzyme)	5 µl
	Template	0.4 µl
	Forward Primer (10 µM)	0.4µl
	Reverse Primer (10 µM)	0.4 µl
	ddH2O	3.8 µl

Fill the rest with water.

2 Test digest performed and products analysed using agarose gel electrophoresis to confirm if correct construct was present.

3 Use colony PCR to enlarge colony numbers. Then only the positive clones were mini-prepped.