Colony PCR

Prepare PCR reactions

	25 µL system	Final concentration
Taq DNA Polymerase (5 units/µl)	0.25 µL	1.25 unit
5× Green Go Taq Buffer (Mg free)	5 µL	1×
dNTP (2.5 mM)	2 µL	0.2 mM
F primer (10 µM)	1.25 µL	0.5 µM
R primer (10 µM)	1.25 µL	0.5 µM
$MgCl_2$ (50 mM)	1.25 µL	2.5 mM
H_2O	13.5 µL	
DNA template	Pick a single bacterial colony with a sterile toothpick; swirl the toothpick in a PCR tube containing the above components.	
Total	25 µL	

Cycler setting

	Temperature	Duration	Cycles
Initial heating	95 °C	4 min	1
Denaturation	95 °C	30 sec	20-30
Annealing		30 sec	
Extension	72 °C	1-2 min	
Final extension	72 °C	5 min	1