

G5 PCR

Participants: Brianna Branson, Rori Hoover, Patrick Jiang

Date: Friday, April 21, 2023

Protocol:

1. Prepared a 25 μL reaction in a PCR tube with the following components:

Component	Volume
10 μM forward primer	1.25 μL
10 μM reverse primer	1.25 μL
10 ng template DNA (??)	1 μL
Q5 High-Fidelity 2X Master Mix	12.5 μL
Nuclease-free water	4 μL
Total	25 μL

2. Amplified the DNA in the ?? μL reaction with a thermocycler using the following conditions:

Step	Temperature	Time	Number of cycles
Initial denaturation	98 $^{\circ}\text{C}$	30 sec	1
Denaturation	98 $^{\circ}\text{C}$	10 sec	30
Annealing	57 $^{\circ}\text{C}$??	30
Extension	72 $^{\circ}\text{C}$	30 sec	30
Final extension	72 $^{\circ}\text{C}$	2 min	1
Hold	10 $^{\circ}\text{C}$	Forever	-

Results: N/A

Conclusion: N/A