

G4.1, G4.2, and G4.3 HiFi DNA Assembly

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Protocol:

Note: these steps follow those outlined in the NEBuilder HiFi DNA Assembly Reaction Protocol by New England Biolabs.

1. Prepared a 20 μ L HiFi assembly reaction for each of the three inserts: G4.1, G4.2, and G4.3 with the following components:

Component	Volume
0.05 pmols insert DNA (G4.1, G4.2, G4.3, pRSET)	3.64 μ L
NEBuilder HiFi DNA Assembly Master Mix	10 μ L
Nuclease-free water	6.36 μ L
Total	20 μL

Fix this so that the DNA are all separate

2. Prepared a 20 μ L control reaction with the following components:

Component	Volume
0.05 pmols pRSET	1.36 μ L
NEBuilder HiFi DNA Assembly Master Mix	10 μ L
Nuclease-free water	8.64 μ L
Total	20 μL

3. Incubate at 50°C for 60 minutes

Results: N/A

Conclusion: N/A