

Gibson assembly

Materials

DNA fragments

NEBuilder HiFi DNA Assembly Master Mix

Deionized water

Steps

1. Set up the following reaction on ice:

Component	2-3 Fragment Assembly
Total amount of fragments	0.02-0.5 pmols
NEBuilder HiFi DNA Assembly Master Mix	2.5 µl
Deionized water	Up to 5 µl

2. Incubate at 50°C for 15 mins. Extended incubation up to 60 minutes may help to improve assembly efficiency.
3. Transform competent cells with 2.5 µl of the assembled product or store in -20°C for subsequent transformation.

Source: NEB

(<https://international.neb.com/protocols/2014/11/26/nebuilder-hifi-dna-assembly-reaction-protocol>)