Version 3

Jun 04, 2021

Quick Ligation Protocol (M2200) V.3

New England Biolabs[1]

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dx.doi.org/10.17504/protocols.io.bb2qiqdw

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ABSTRACT

This protocols is to be performed with the Quick Ligation Reaction Buffer. Please see the NEB website for more information.

EXTERNAL LINK

https://www.neb.com/protocols/0001/01/01/quick-ligation-protocol

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PROTOCOL CITATION

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ligation

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LAST MODIFIED

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OWNERSHIP HISTORY

Jan 31, 2020	New England Biolabs	New England Biolabs
Jun 04, 2021	New England Biolabs Tech Support	New England Biolabs
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PROTOCOL INTEGER ID

32560

MATERIALS TEXT

MATERIALS

Quick Ligation Kit - 30 rxns **New England Biolabs Catalog #M2200S**

SAFETY WARNINGS

Please see SDS (Safety Data Sheet) for hazards and safety warnings.

BEFORE STARTING

Thaw and resuspend Quick Ligase Reaction Buffer at **Room temperature** .

1

Set up the following reaction in a microcentrifuge tube **On ice** .

Quick Ligase should be added last. Note that the table shows a ligation using a molar ratio of 1:3 vector to insert for the indicated DNA sizes.

(Use NEBioCalculator to calculate molar ratios.)

COMPONENT	20 µl REACTION
Quick Ligase Reaction Buffer (2X)*	10 µl
Vector DNA (3 kb)	50 ng (0.020 pmol)
Insert DNA (1 kb)	37.5 ng (0.060 pmol)
Nuclease-free Water	to 20 µl
Quick Ligase	1 µl

**The Quick Ligase Reaction Buffer should be thawed and resuspended at room temperature.*

2

Gently mix the reaction by pipetting up and down and microfuge briefly.

3

Incubate at **Room temperature** (**25 °C**) for **00:05:00** .

4

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Chill **On ice** and transform **1 µl** – **5 µl** of the reaction into **50 µl** competent cells. Alternatively, Store at **-20 °C** .

Do not heat inactivate – heat inactivation dramatically reduces transformation efficiency.

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