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# Transformation Protocol V.2

New England Biolabs[1]

[1]New England Biolabs

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dx.doi.org/10.17504/protocols.io.bd2yi8fw

New England Biolabs (NEB)
Tech. support phone: **+1(800)632-7799** email: **info@neb.com**

New England Biolabs
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Quick Ligation products may be transformed by many different methods. The following protocol is recommended by New England Biolabs.

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https://www.neb.com/protocols/2012/05/21/transformation-protocol

New England Biolabs 2022. Transformation Protocol. **protocols.io**
https://dx.doi.org/10.17504/protocols.io.bd2yi8fw
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quick ligation transformation, comp cells, Transformation, Competent cells

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Please refer to the Safety Data Sheets (SDS) for health and environmental hazards.

1 Thaw competent cells **On ice** .

2 Chill approximately **5 ng ligation mixture** ( **2 µL** ) in a 1.5 ml microcentrifuge tube.

3 

Add **50 µL competent cells** to the DNA.

4 

Mix gently by pipetting up and down or flicking the tube 4–5 times to mix the cells and DNA. **Do not vortex.**

5 

Place the mixture **On ice** for **00:30:00** . Do not mix.

6 Heat shock at **42 °C** for **00:00:30** . Do not mix.

> Please note: For the duration and temperature of the heat shock step as well as for the media to be used during the recovery period, please follow the recommendations provided by the competent cells' manufacturer.

7 

Add **950 µL room temperature media** to the tube.

8 

Place tube at **37 °C** for **01:00:00** . Shake vigorously ( **250 rpm** ) or rotate.

9 Warm selection plates to **37 °C** .

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Spread **50 µL** – **100 µL cells and ligation mixture** onto the plates.

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Incubate **Overnight** at **37 °C** .



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