

Oct 24, 2018

Natural Transformation

 Forked from [Natural Transformation](#)

DOI

dx.doi.org/10.17504/protocols.io.uyzexx6

Franziska Müller¹, Memduha Muratoglu¹, Jana Jung¹

¹Philipps-Universität Marburg



Franziska Müller

OPEN  ACCESS



DOI: dx.doi.org/10.17504/protocols.io.uyzexx6

Protocol Citation: Franziska Müller, Memduha Muratoglu, Jana Jung 2018. Natural Transformation. [protocols.io](#)
<https://dx.doi.org/10.17504/protocols.io.uyzexx6>

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Protocol status: Working

We use this protocol and it's working

Created: October 24, 2018

Last Modified: October 24, 2018

Protocol Integer ID: 17145

Abstract

Following this protocol, *V. Natriegens* cells can be transformed with linear fragments and plasmids based on natural transformation as described in Multiplex Genome Editing by Natural Transformation (MuGENT) for Synthetic Biology in *Vibrio natriegens* Dalia *et. al*, 2017. *ACS Synthetic Biology*.

PRE CULTURE

- 1 Of a strain containing tfoX regulated by an inducible promoter (in this case an IPTG inducible promoter).

30 °C Shaking 3 mL LBv2 100 Molarity (M) uM IPTG
100 Mass / % volume ug/ml Carbenicillin
12:00:00 Hours to 16:00:00 Hours

Transformation reaction

- 2 3.5 µL Pre culture 350 µL 28g/l XIO 100 Molarity (M) um IPTG

Are mixed and 50 ng Transformation DNA are added. A control without addition of transformation DNA is prepared, too.

30 °C Static 04:00:00 Hours to 06:00:00 Hours

Recovery

- 3 Add 1 mL LBv2

02:00:00 Hours 30 °C Shaking

Selection

- 4 Plate complete reaction onto LBv2 agar plates containing antibiotic corresponding to transformation DNA.

Incubation  12:00:00 Hours  37 °C .