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# Natural Transformation

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Working

## 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*.

## PROTOCOL STATUS

### Working

We use this protocol in our group and it is working

## 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 Percent 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** .



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