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Natural Transformation

Forked from Natural Transformation

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Protocol status: Working
We use this protocol and it's working

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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 | [M] 100 Mass Percent uM IPTG
[M] 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 | [M] 100 Mass Percent 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 .