Resource Summary Report

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Electroporation of Thalassiosira pseudonana

DOI:10.17504/protocols.io.yvqfw5w
Type: Protocol

Proper Citation

Joshua Bugge, Deborah Robertson 2019. Electroporation of Thalassiosira pseudonana. protocols.io dx.doi.org/10.17504/protocols.io.yvqfw5w

Protocol Information

URL: https://dx.doi.org/10.17504/protocols.io.yvqfw5w

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Group: Protist Research to Optimize Tools in Genetics (PROT-G), Robertson Lab

Summary: An electroporation-mediated genetic transformation or the marine diatom Thalassiosira pseudonana was developed. Using a sorbitol-based buffer, T. pseudonana cells were successfully transformed with the Tpfcp/nat plasmid at an efficiency of 2820 per 108 cells. This represents a six-fold improvement compared with previously published methods.

Affiliations: Clark University, Clark University

Version: 1

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