

Jun 26, 2019

Version 1

CRISPR-Cas9 episome conjugation into *Phaeodactylum tricornutum* V.1

 [Nature Methods](#)

DOI

<https://dx.doi.org/10.17504/protocols.io.4bmgsk6>

Mark Moosburner¹, Andrew Allen¹

¹University of California, San Diego

JCVI West Protocols



Mark Moosburner

Scripps Institution of Oceanography, J. Craig Venter Institu...

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.4bmgsk6>

External link: <https://doi.org/10.1038/s41592-020-0796-x>

Protocol Citation: Mark Moosburner, Andrew Allen 2019. CRISPR-Cas9 episome conjugation into *Phaeodactylum tricornutum*. protocols.io <https://dx.doi.org/10.17504/protocols.io.4bmgsk6>

Manuscript citation:

Faktorová D, Nisbet RER, Robledo JAF, Casacuberta E, Sudek L, Allen AE, Ares M, Aresté C, Balestreri C, Barbrook AC, Beardslee P, Bender S, Booth DS, Bouget F, Bowler C, Breglia SA, Brownlee C, Burger G, Cerutti H, Cesaroni R, Chiurillo MA, Clemente T, Coles DB, Collier JL, Cooney EC, Coyne K, Docampo R, Dupont CL, Edgcomb V, Einarsson E, Elustondo PA, Federici F, Freire-Beneitez V, Freyria NJ, Fukuda K, García PA, Girguis PR, Gomaa F, Gornik SG, Guo J, Hampl V, Hanawa Y, Haro-Contreras ER, Hehenberger E, Highfield A, Hirakawa Y, Hopes A, Howe CJ, Hu I, Ibañez J, Irwin NAT, Ishii Y, Janowicz NE, Jones AC, Kachale A, Fujimura-Kamada K, Kaur B, Kaye JZ, Kazana E, Keeling PJ, King N, Klobutcher LA, Lander N, Lassadi I, Li Z, Lin S, Lozano J, Luan F, Maruyama S, Matute T, Miceli C, Minagawa J, Moosburner M, Najle SR, Nanjappa D, Nimmo IC, Noble L, Vanclová AMGN, Nowacki M, Nuñez I, Pain A, Piersanti A, Pucciarelli S, Pyrih J, Rest JS, Rius M, Robertson D, Ruaud A, Ruiz-Trillo I, Sigg MA, Silver PA, Slamovits CH, Smith GJ, Sprecher BN, Stern R, Swart EC, Tsaousis AD, Tsy-pin L, Turkewitz A, Turnšek J, Valach M, Vergé V, Dassow Pv, Haar Tvd, Waller RF, Wang L, Wen X, Wheeler G, Woods A, Zhang H, Mock T, Worden AZ, Lukeš J, Genetic tool development in marine protists: emerging model organisms for experimental cell biology. *Nature Methods* 17(5). doi: [10.1038/s41592-020-0796-x](https://doi.org/10.1038/s41592-020-0796-x)

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: June 18, 2019

Last Modified: June 26, 2019

Protocol Integer ID: 24653

Keywords: CRISPR, Cas9, cloning, conjugation, episome, diatom, phaeodactylum, cas9 episome conjugation into phaeodactylum tricornutum, cas9 episome conjugation, crispr, cas9 episome, cas9, conjugation methodology, phaeodactylum tricornutum, gg2 assembly protocol

Abstract

Bacterial-conjugation methodology used to introduce the CRISPR-Cas9 episome generated using the GG2 assembly protocol.

Attachments



[CRISPR episome conju...](#)

114KB

