

Resource Summary Report

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Genomic mapping of transformed DNA fragments

DOI:10.17504/protocols.io.yq2fvye

Type: Protocol

Proper Citation

Oskar Johansson, Adrian Clarke 2019. Genomic mapping of transformed DNA fragments. protocols.io dx.doi.org/10.17504/protocols.io.yq2fvye

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.yq2fvye>

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

Summary: Mapping of transformed DNA within mutated diatoms. A stepwise specific PCR reaction that allow for identification of genome location of transformed fragments such as antibiotic resistance genes or GFP constructs. Degenerate primer 1: 5' - GCCGGACTTAGCGAGCA TGTGTAGTACCTTGCCG ATCCTNASATANSATANT TC - 3'Degenerate primer 2: 5' - GCCGGACTTAGCGAGCA TGTGTAGTACCTTGCCG ATCCCNTSABGNACYTN CTG - 3'Degenerate primer 3: 5' - GCCGGACTTAGCGAGCA TGTGTAGTACCTTGCCG ATCCNGACGARWGANNA WGAC - 3'Degenerate primer 4: 5' - GCCGGACTTAGCGAGCA TGTGTAGTACCTTGCCG ATCCTAHATGDAGKACN TAC - 3'Specific primer 1: 5' - GCCGGACTTAGCGAGCA TGTGTAG - 3'Specific primer 2: 5' - CATGTGTAGTACCTTGC CGATCC - 3'Internal primers must be designed with regard to each construct that are to be mapped. They should not overlap but instead cover consecutive stretches of known DNA sequence of the transformed construct.

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Version: 1

Publication Date: 2019

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Record Creation Time: 20210329T220533+0000

Record Last Update: 20210329T221010+0000

Data and Source Information

Source: