GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-113298-1

LAST UPDATED: 13 MAR 2018

General information

Name of genetic element

delta 5-desaturase gene EN

Abbreviation

CS-delta5D-REBSA EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

BCH-ORGA-SCBD-113295-1 ORGANISM | REBECCA SALINA (MICROALGA, REBSA) |
Algae

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

delta 5-desaturase EN

Biological function of the protein

Fatty acid desaturase that introduces a cis double bond at the 5-position in 20-carbon polyunsaturated fatty acids incorporated in a glycerolipid that contain a Delta8 double bond. EN

Related trait(s) or use(s) in biotechnology

Changes in quality and/or metabolite content
Lipid and fatty acids

Additional Information

Other relevant website addresses and/or attached documents

? Isolation and characterization of genes from the marine microalga Pavlova salina encoding three front-end desaturases involved in docosahexaenoic acid biosynthesis *(English)*

? Acyl-lipid (8-3)-desaturase - UniProt *(English)*

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Further Information

Questions about the Cartagena Protocol on Biosafety or the operation of the Biosafety Clearing-House may be directed to the Secretariat of the Convention on Biological Diversity.

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