





Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)	BCH-GENE-SCBD-113304-1
	LAST UPDATED: 13 MAR 2018
General information	
Name of genetic element	
delta 4-desaturase gene	EN
Abbreviation	
CS-delta4D-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 4-desaturase EN Biological function of the protein

Delta-4 desaturase is the final enzyme involved in the biosynthesis of docosahexaenoic acid from docosapentaenoic acid.

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

? Fatty Acid Desaturases, Polyunsaturated Fatty Acid Regulation, and Biotechnological Advances (
English)

? Heterologous overexpression of a novel delta-4 desaturase gene from the marine microalga Pavlova viridis in Escherichia coli as a Mistic fusion (*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. Secretariat of the Convention on Biological Diversity 413 rue Saint-Jacques, suite 800 Montreal, Québec, H2Y 1N9 Canada Fax: +1 514 288-6588 Email: secretariat@cbd.int