

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-113299-2

LAST UPDATED: 17 MAY 2021

General information

Name of genetic element

delta 15-desaturase gene

EN

Alternate genetic element name(s) (synonym(s))

omega 3 desaturase

EN

CS-omega3D-PICPA

EN

Abbreviation

CS-omega3D-KOMPG

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-106439-2](#) ORGANISM | PICHIA PASTORIS (YEAST, PICPA)

Fungi

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

delta 15-desaturase

EN

Biological function of the protein

Desaturases catalyze the introduction of double bonds between the carboxylic end of a molecule and a preexisting double bond to introduce further unsaturation into existing polyunsaturated fatty acids or make polyunsaturated fatty acids de novo in mammals deprived of dietary polyunsaturated fatty acids.

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

- ? [Fatty Acid Desaturases, Polyunsaturated Fatty Acid Regulation, and Biotechnological Advances \(English \)](#)
- ? [Delta 15-fatty acid 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.

Secretariat of the Convention on Biological Diversity

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