

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-110890-1 [EN](#) [DE](#)

LAST UPDATED: 01 SEP 2016

General information

Name of genetic element

1-acyl-sn-glycerol-3-phosphate acyltransferase coding sequence

EN

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

Lysophosphatidic acid acyltransferase

EN

1-acylglycerol-3-phosphate O-acyltransferase

EN

1-acyl-sn-glycerol-3-phosphate 2-O-acyltransferase

EN

1-acyl-sn-glycero-3-phosphate acyltransferase

EN

1-acylglycerolphosphate acyltransferase

EN

1-acylglycero-3-phosphate acyltransferase

EN

Abbreviation

CS-lpaat-BRANA

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-12083-7](#) ORGANISM | BRASSICA NAPUS (TURNIP, RAPESEED, CANOLA PLANT, OILSEED RAPE, RAPE, BRANA) |
Crops

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Lysophosphatidic acid acyltransferase

EN

Biological function of the protein

Converts lysophosphatidic acid (LPA) into phosphatidic acid by incorporating an acyl moiety at the 2 position. This enzyme can utilize either acyl-CoA or acyl-ACP as the fatty acyl donor

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

? [Lysophosphatidic acid acyltransferase - GenBank](#) (*English*)

? [A plastidial lysophosphatidic acid acyltransferase from oilseed rape](#). (*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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