

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-111938-2

LAST UPDATED: 24 JAN 2022

General information

Name of genetic element

1-aminocyclopropane-1-carboxylic acid synthase fragment

EN

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

1-aminocyclopropanecarboxylate synthase

EN

1-aminocyclopropane-1-carboxylic acid synthase

EN

1-aminocyclopropane-1-carboxylate synthetase

EN

aminocyclopropanecarboxylic acid synthase

EN

aminocyclopropanecarboxylate synthase

EN

ACC synthase

EN

S-adenosyl-L-methionine methylthioadenosine-lyase

EN

CS-acc_RNAi-ANACO

EN

Abbreviation

CS-acs_RNAi-ANACO

EN

Category

Double-stranded RNA

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-111928-1](#) ORGANISM | ANANAS COMOSUS (PINEAPPLE, ANACO) |

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

1-aminocyclopropane-1-carboxylic acid synthase

EN

Additional Information

1-aminocyclopropane-1-carboxylic acid synthase is involved in catalyzing the penultimate step in ethylene biosynthesis.

EN

Other relevant website addresses and/or attached documents

? [1-aminocyclopropane-1-carboxylate synthase - Wikipedia](#) (*English*)

? [Two Arabidopsis Mutants That Overproduce Ethylene Are Affected in the Posttranscriptional Regulation of 1-Aminocyclopropane-1-Carboxylic Acid Synthase](#) (*English*)

? [1-aminocyclopropane-1-carboxylic acid \(ACC\) in plants: more than just the precursor of ethylene](#) (*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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