





ΕN

EN

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)	BCH-GENE-SCBD-102613-4 EN DE
	LAST UPDATED: 05 AUG 2022
General information	
Name of genetic element	
Acetyl-CoA carboxylase large subunit	EN
Abbreviation	
CS-accD-TOBAC	EN
Category	
Protein coding sequence	
Is this genetic element a synthetic molecule?	
No	
Daman anna iona	
Donor organism Donor organism(s)	
BCH-ORGA-SCBD-12120-4 ORGANISM NICOTIANA TAB	ACUM (TOBACCO, TOBAC)

Crops

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Acetyl-CoA carboxylase large subunit

Biological function of the protein

ACC catalyzes the irreversible carboxylation of acetyl-CoA to malonyl-CoA. Malonyl-CoA is needed as a co-substrate in the fatty acids biosynthesis.

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

Other

Homologous recombination

Additional Information

Other relevant website addresses and/or attached documents

? The Plant Journal - The tobacco plastid accD gene is essential and is required for leaf development [English]

BCH-GENE-SCBD-102613-4

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