GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-14986-6

LAST UPDATED: 16 FEB 2021

General information

Name of genetic element

Cry1Ac | EN

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

Cry1A(c) | EN

Abbreviation

CS-cry1Ac-BACTU | EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

BCH-ORGA-SCBD-45614-11 ORGANISM | BACILLUS THURINGIENSIS (BT, BACILLUS, BACTU) | Bacteria

Point of collection or acquisition of the donor organism(s)

Bacillus thuringiensis var. kurstaki strain HD73. | EN

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Cry1Ac delta-endotoxin | EN

Biological function of the protein

The cry1Ac gene codes for a Bt-toxin, which confers resistance to lepidopteran pests of cotton, such as tobacco budworm (Heliothis virescens), cotton bollworm (Helicoverpa zea), pink bollworm (Pectinophora gossypiella), and soybean looper (Pseudoplusia includens). | EN

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

Resistance to diseases and pests

Insects

Lepidoptera (butterflies and moths)

Additional Information

Other relevant website addresses and/or attached documents

? A Review of the Environmental Safety of the Cry1Ac Protein.pdf *(English)*

BCH-GENE-SCBD-14986-6

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