

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-14987-8

LAST UPDATED: 06 AUG 2021

General information

Name of genetic element

Cry1F

EN

Abbreviation

CS-cry1F-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. aizawai strain PS811.

EN

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Cry1F delta-endotoxin

EN

Biological function of the protein

The cry1F gene codes for codes for a Bt-toxin, which protects the plant against the European corn borer (*Ostrinia nubilalis*) and other lepidopterans such as the pink borer (*Sesamia spp.*), fall armyworm (*Spodoptera frugiperda*), black cutworm (*Agrotis ipsilon*) and southwestern corn borer (*Diatraea grandiosella*).

EN

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

Resistance to diseases and pests

Insects

Lepidoptera (butterflies and moths)

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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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