

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-14988-7

LAST UPDATED: 27 FEB 2014

General information

Name of genetic element

Cry2Ab2

EN

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

Cry2A(b)

EN

CryIIB

EN

CryB2

EN

CryIIAb

EN

Abbreviation

CS-Cry2Ab2-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 subsp. kurstaki

EN

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Cry2Ab2 delta-endotoxin

EN

Biological function of the protein

The cry2A(b) gene encodes 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

? [Activation of a cryptic crystal protein gene of *Bacillus thuringiensis* subspecies *kurstaki* by gene fusion and determination of the crystal protein insecticidal specificity](#) (*English*)

? [Two highly related insecticidal crystal proteins of *Bacillus thuringiensis* subsp. *kurstaki* possess different host range specificities.](#) (*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

413 rue Saint-Jacques, suite 800

Montreal, Québec, H2Y 1N9

Canada

Fax: +1 514 288-6588

Email: secretariat@cbd.int