

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-104805-2

LAST UPDATED: 08 AUG 2014

General information

Name of genetic element

Aryloxyalkanoate dioxygenase gene

EN

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

SdpA

EN

Abbreviation

CS-aad12-DELAC

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-104803-4](#) ORGANISM | DELFTIA ACIDOVORANS (DELAC)

Bacteria

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Aryloxyalkanoate dioxygenase

EN

Biological function of the protein

The AAD-12 protein is an enzyme with an alpha ketoglutarate-dependent dioxygenase activity which results in metabolic inactivation of the herbicides of the aryloxyalkanoate family.

EN

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

Resistance to herbicides

Additional Information

Other relevant website addresses and/or attached documents

? [Robust crop resistance to broadleaf and grass herbicides provided by aryloxyalkanoate dioxygenase transgenes.pdf](#) (*English*)

? [NOVEL HERBICIDE RESISTANCE GENES - WIPO](#) (*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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