

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-15002-4

LAST UPDATED: 27 FEB 2014

General information

Name of genetic element

Phosphinothricin N-acetyltransferase gene

EN

Abbreviation

CS-pat-STRVR

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-12102-4](#) ORGANISM | STREPTOMYCES VIRIDIOCHROMOGENES (STRVR) |

Bacteria

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Phosphinothricin N-acetyltransferase (PAT)

EN

Biological function of the protein

The pat gene codes for the enzyme phosphinothricin-acetyltransferase (PAT) and leads to increased tolerance to glufosinate-containing herbicides.

EN

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

Resistance to herbicides
Glufosinate

Additional Information

Other relevant website addresses and/or attached documents

? [Nucleotide sequence of the phosphinothricinN-acetyltransferase gene from Streptomycesviridochromogenes Tü494 and its expression in Nicotiana tabacum \(English \)](#)

[BCH-GENE-SCBD-15002-4](#)

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