

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-14998-4

LAST UPDATED: 27 FEB 2014

General information

Name of genetic element

Glyphosate oxidoreductase gene

EN

Abbreviation

CS-gox-OCHAN

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-14936-4](#) ORGANISM | OCHROBACTRUM ANTHROPI (OCHAN)

Bacteria

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Glyphosate oxidoreductase

EN

Biological function of the protein

The gox gene produces glyphosate oxidase (GOX) - an enzyme that accelerates the normal breakdown of the herbicide glyphosate into two non-toxic compounds, aminomethylphosphonic acid (AMPA) and glyoxylate.

EN

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

Resistance to herbicides
Glyphosate

[BCH-GENE-SCBD-14998-4](#)

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**

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