

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-101419-4

LAST UPDATED: 25 MAR 2013

General information

Name of genetic element

Optimized Transit Peptide

EN

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

TPotP C

EN

Abbreviation

TP-OPT

EN

Category

Transit signal

Is this genetic element a synthetic molecule?

Yes

Characteristics of the protein coding sequence

Additional Information

This transit peptide sequence is derived from plant sequences obtained from corn and sunflower ribulose 1,5-bisphosphate carboxylase oxygenase (RuBisCo), an enzyme present in all photosynthetic plants.

The optimised transit peptide (OTP) sequence directs translocation of the protein to chloroplasts, where the protein is functionally active.

Reference: Lebrun M, Leroux B, Sailland A, inventors. March 14, 1992. Gène chimère pour la transformation des plantes. European patent application Patent Application No. EP 508909.

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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