

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-100365-6

LAST UPDATED: 12 FEB 2021

General information

Name of genetic element

Chloroplast transit peptide 2

EN

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

TP-epsps

EN

TP-shkG

EN

leader sequence of 5-enolpyruvylshikimate-3-phosphate

EN

Abbreviation

TP-ctp2-ARATH

EN

Category

Transit signal

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

BCH-ORGA-SCBD-12098-4 ORGANISM | ARABIDOPSIS THALIANA (THALE CRESS, MOUSE-EAR CRESS, ARABIDOPSIS, ARATH)

Plants

Characteristics of the protein coding sequence

Additional Information

TS-CTP2 is a 0.23kb DNA sequence from *Arabidopsis thaliana* coding for a N-terminal chloroplast transit peptide. The signal peptide directs the translated protein to the chloroplast.

EN

Other relevant website addresses and/or attached documents

? [Chloroplast transit peptides structure, function and evolution.pdf \(English \)](#)

? [Cloning of an Arabidopsis thaliana gene encoding 5-enolpyruvylshikimate-3-phosphate synthase sequence analysis and manipulation to obtain glyphosate-tolerant plants.pdf \(English \)](#)

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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.

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on Biological Diversity**

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