

## Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-101902-4

LAST UPDATED: 27 AUG 2012

### General information

Name of genetic element

rbcS Transit Peptide

EN

Abbreviation

TP-rbcS

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

When cloned upstream of a coding sequence, the transit peptide of the ribulose-1,5-bisphosphate carboxylase (Rubisco) small subunit (rbcS) gene from Arabidopsis thaliana leads to significantly higher steady-state levels of the protein encoded by the coding sequence in leaves of transgenic plants.

EN

This genetic element is also known as TP-CTP1.

Other relevant website addresses and/or attached documents

? [Transgenic expression of two marker genes under the control of an Arabidopsis rbcS promoter: Sequences encoding the Rubisco transit peptide increase expression levels. \( English \)](#)

## 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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