

## Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-15026-6

LAST UPDATED: 27 FEB 2014

### General information

Name of genetic element

PRSV coat protein

EN

Abbreviation

CS-cp-PRSV

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

### Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-15021-5](#) ORGANISM | PAPAYA RINGSPOT VIRUS (PRSV) |

Viruses

### Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

PRSV viral coat protein (CP)

EN

Biological function of the protein

The cp gene from PRSV encodes the coat protein (CP) gene from Papaya ringspot virus. Through a process related to viral cross-protection, transgenic lines with this gene exhibit resistance to infection and subsequent disease caused by PRSV.

EN

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

Resistance to diseases and pests

Viruses

Papaya ringspot potyvirus resistance

### Additional Information

Other relevant website addresses and/or attached documents

? [Virus Resistant Papaya Plants Derived from Tissues Bombarded with the Coat Protein Gene of Papaya Ringspot Virus \( English \)](#)

[BCH-GENE-SCBD-15026-6](#)

## 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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