

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-115110-2

LAST UPDATED: 21 JAN 2022

General information

Name of genetic element

Coat Protein

EN

Abbreviation

CS-cp_RNAi-UCBSV

EN

Category

Double-stranded RNA

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-115109-2](#) ORGANISM | UGANDAN CASSAVA BROWN STREAK VIRUS (UCBSV)
Viruses

Point of collection or acquisition of the donor organism(s)

Ugandan cassava brown streak virus isolate: UCBSV-[UG;Kab;07]

EN

Characteristics of the protein coding sequence

Additional Information

The *Ugandan cassava brown streak virus* (UCBSV) coat protein is a capsid protein, responsible for the encapsulation of the viral RNA genome and entry into the host cell. Unlike the coat protein in *Cassava brown streak virus*, the coat protein for UCBSV does not contain a DAG motif (aspartic acid-alanine-glycine), which is associated with aphid-mediated transmission. The full length protein is roughly 43 kDa in size.

EN

Other relevant website addresses and/or attached documents

? [NCBI: Uganda cassava brown streak virus complete genome, isolate UCBSV-\[UG;Kab;07\]](#) (English)

? [Virus-Derived Stacked RNAi Construct Confers Robust Resistance to Cassava Brown Streak Disease.pdf](#) (*English*)

? [UniProtKB: UCBSV Coat Protein](#) (*English*)

? [Unusual occurrence of a DAG motif in the Ipomovirus Cassava brown streak virus and implications for its vector transmission.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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