

## Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-104598-1

LAST UPDATED: 11 JAN 2013

### General information

Name of genetic element

AC1 Gene

EN

Abbreviation

CS-AC1

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

### Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-104597-4](#) ORGANISM | BEAN GOLDEN MOSAIC VIRUS (BGMV) |

Viruses

### Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Rep Protein

EN

Biological function of the protein

AC1 encodes a complex, multifunctional protein (Rep) that acts as a rolling-circle replication initiation factor, which is the only protein strictly essential for viral genome replication in the bean yellow mosaic virus and is capable of regulating its own expression.

EN

### Additional Information

Other relevant website addresses and/or attached documents

? [RNAi-mediated resistance to Bean golden mosaic virus in genetically engineered common bean \(Phaseolus vulgaris\).pdf](#) ( 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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