

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-100287-7

LAST UPDATED: 10 SEP 2015

General information

Name of genetic element

CaMV 35S promoter

EN

Abbreviation

P-35S-CaMV

EN

Category

Promoter

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-12125-5](#) ORGANISM | CAULIFLOWER MOSAIC VIRUS (CAMV) |

Viruses

Characteristics of the protein coding sequence

Additional Information

The 35S promoter was isolated from the Cauliflower Mosaic Virus (CaMV) and is one of the most widely used promoters in plant transformation.

The 35S promoter is a very strong constitutive promoter, resulting in high levels of gene expression in dicot plants. However, it is less effective in monocots, especially in cereals.

Useful references:

Nagy, F. et al. (1985) Properties of expression of the 35S promoter from CaMV in transgenic tobacco plants. *Biotechnology in Plant Science - Relevance to Agriculture in the Eighties*. Ed. M. Zaitlin, P. Day, A. Hollaender, C. M. Wilson. p. 227-235.

EN

Other relevant website addresses and/or attached documents

? [Transcription of Cauliflower Mosaic Virus DNA Detection of promoter sequences, and characterisation of transcripts.pdf](#) (*English*)

? [P-35S Patents online](#) (*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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