

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-103901-2

LAST UPDATED: 01 AUG 2019

General information

Name of genetic element

HSP 70 5' untranslated leader sequence

EN

Abbreviation

L-HSP70

EN

Category

Other (Leader)

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-12107-5](#) ORGANISM | PETUNIA HYBRIDA (PETUNIA, PETHY)

Crops

Characteristics of the protein coding sequence

Additional Information

The 5' untranslated region (5'UTR) of the petunia heat shock protein 70 enhances the expression of the coding sequence downstream. The heat shock protein 5'UTR was chosen due to the translational preference of the heat shock genes during hyperthermic conditions and thus would be expected to increase translation.

EN

Other relevant website addresses and/or attached documents

? [US Patent - US5362865.pdf](#) (English)

? [5' untranslated leader sequences of eukaryotic m RNAs encoding heat shock induced proteins \(Joshi, 1995\).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.

**Secretariat of the Convention
on Biological Diversity**

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