

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-103627-5

LAST UPDATED: 17 MAY 2021

General information

Name of genetic element

Ubiquitin Intron 1

EN

Abbreviation

I-1_ubi1-MAIZE

EN

Category

Other (Intron)

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-246-6](#) ORGANISM | ZEA MAYS (MAIZE, CORN, MAIZE) |

Crops

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

Isolated from corn line B73 from PIONEER.

EN

Characteristics of the protein coding sequence

Additional Information

The first intron from Ubiquitin-1 enhances exogenous gene expression.

EN

Other relevant website addresses and/or attached documents

? [Utilizing modified ubi1 introns to enhance exogenous gene expression in maize \(Zea mays L.\) and rice \(Oryza sativa L.\).pdf](#) (*English*)

? [Intron-Mediated Enhancement- A Tool for Heterologous Gene Expression in Plants?.pdf](#) (*English*)

? [Ubi1 intron-mediated enhancement of the expression of Bt cry1Ah gene in transgenic maize \(Zea mays L.\).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**

413 rue Saint-Jacques, suite 800
Montreal, Québec, H2Y 1N9
Canada

Fax: +1 514 288-6588

Email: secretariat@cbd.int