

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-111571-1

EN

DE

LAST UPDATED: 06 FEB 2017

General information

Name of genetic element

Pectate lyase gene

EN

Alternate genetic element name(s) (synonym(s))

(1->4)-alpha-D-galacturonan lyase

EN

Polygalacturonic acid trans-eliminase

EN

Polygalacturonic transeliminase

EN

Pectic acid transeliminase

EN

Polygalacturonate lyase

EN

Endopectin methyltranseliminase

EN

Pectate transeliminase

EN

Endogalacturonate transeliminase

EN

Pectic acid lyase

EN

Pectic lyase

EN

Alpha-1,4-D-endopolygalacturonic acid lyase

EN

PGA lyase

EN

Pectin trans-eliminase

EN

Polygalacturonic acid lyase

EN

Endo-alpha-1,4-polygalacturonic acid lyase

EN

PPase-N

EN

Abbreviation

CS-ply-LILLO

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-111561-1](#) ORGANISM | LILIUM LONGIFLORUM (EASTER LILY, TRUMPET LILY, LILLO) |
Ornamentals

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Pectate lyase

EN

Biological function of the protein

Pectate lyase is responsible for the eliminative cleavage of pectate, yielding oligosaccharides with 4-deoxy- α -D-mann-4-enuronosyl groups at their non-reducing ends. In doing so, this leads to the destabilization of plant cell walls.

EN

Related trait(s) or use(s) in biotechnology

Changes in physiology and/or production

Additional Information

Other relevant website addresses and/or attached documents

? [Pectate lyase - Wikipedia](#) (*English*)

[BCH-GENE-SCBD-111571-1](#)

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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