

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-111451-1 EN DE

LAST UPDATED: 18 NOV 2016

General information

Name of genetic element

Cytosolic starch phosphorylase gene

EN

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

Glycogen phosphorylase 2

EN

Alpha-1,4-glucan phosphorylase

EN

Abbreviation

CS-pho2-SOLTU

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-12106-6](#) ORGANISM | SOLANUM TUBEROSUM (POTATO, SOLTU)

Crops

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Cytosolic starch phosphorylase

EN

Biological function of the protein

Phosphorylases catalyse the reversible phosphorolysis of terminal glucose units of alpha-1,4-glucans. Depending on the concentration of inorganic phosphate and glucose-1-phosphate, the enzyme can both synthesise and degrade glucans.

EN

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

Changes in physiology and/or production
Yield

Additional Information

Other relevant website addresses and/or attached documents

- ? [Starch phosphorylase - Wikipedia \(English \)](#)
- ? [Starch phosphorylase: role in starch metabolism and biotechnological applications \(English \)](#)

[BCH-GENE-SCBD-111451-1](#)

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.

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on Biological Diversity**

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