

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-111327-1 EN DE

LAST UPDATED: 18 NOV 2016

General information

Name of genetic element

Polyphosphate kinase gene

EN

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

ATP:polyphosphate phosphotransferase

EN

Polyphosphoric acid kinase

EN

Abbreviation

CS-ppk-ECOLX

EN

Category

Protein coding sequence

Is this genetic element a synthetic molecule?

No

Donor organism

Donor organism(s)

[BCH-ORGA-SCBD-14930-5](#) ORGANISM | [ESCHERICHIA COLI \(ECOLX\)](#) |
Bacteria

Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Polyphosphate kinase

EN

Biological function of the protein

Polyphosphate kinase catalyzes the reversible transfer of the terminal phosphate of ATP to a long-chain polyphosphate.

Among other functions, the polyphosphate moieties serve as a form of chemical energy storage during a cell's high energy status.

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

- ? [The Polyphosphate Kinase Gene of Escherichia coli](#) (*English*)
- ? [Polyphosphate kinase - Wikipedia](#) (*English*)

[BCH-GENE-SCBD-111327-1](#)

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**

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

Fax: +1 514 288-6588

Email: secretariat@cbd.int