

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-14967-2

LAST UPDATED: 06 JUL 2012

General information

Name of genetic element

Aminoglycoside 3 phosphotransferase II

EN

Abbreviation

CS-APH-II

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

Aminoglycoside 3 phosphotransferase II (APH-II)

EN

Biological function of the protein

The aphII gene confers resistance to the antibiotic kanamycin. Typically used as a marker gene.

EN

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

Resistance to antibiotics
Kanamycin
Selectable marker genes and reporter genes

Additional Information

Other relevant website addresses and/or attached documents

? [Purification and characterization of aminoglycoside 3'-phosphotransferase type IIa and kinetic comparison with a new mutant enzyme..pdf](#) (*English*)

[BCH-GENE-SCBD-14967-2](#)

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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