





## **Biosafety Clearing-House (BCH)**

ENETIC ELEMENT (GENE)	BCH-GENE-SCBD-14991-
	LAST UPDATED: 27 FEB 2014
General information	
Name of genetic element	
Hygromycin B phosphotransferase gene	EN
Alternate genetic element name(s) (synonym(s))	
aph4 gene	EN
aphIV gene	EN
Abbreviation	
CS-hpt-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	

Hygromycin B phosphotransferase

Biological function of the protein

The hygromycin B phosphotransferase encoded by the hpt gene specifically inactivates the antibiotic hygromycin by phosphorylation.

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

Resistance to antibiotics

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EN
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ΕN

## **Additional Information**

Other relevant website addresses and/or attached documents

? Hygromycin B phosphotransferase as a selectable marker for DNA transfer experiments with higher eucaryotic cells..pdf (*English*)

? Opinion of the Scientific Panel on Genetically Modified Organisms on the use of antibiotic resistance genes as marker genes in genetically modified plants,.pdf (*English*)

## BCH-GENE-SCBD-14991-8

## **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