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Biosafety Clearing-House (BCH)

ENETIC ELEMENT (GENE)	BCH-GENE-SCBD-15001-5
	LAST UPDATED: 27 FEB 2014
General information	
Name of genetic element	
Neomycin Phosphotransferase II	EN
Abbreviation	
CS-nptII-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

Neomycin Phosphotransferase II

Biological function of the protein

The nptll (neo) gene codes for an enzyme that phosphorylates kanamycin and confers resistance to this antibiotic. Typically used as a marker gene.

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

Resistance to antibiotics Kanamycin

Additional Information

Other relevant website addresses and/or attached documents

? Nucleotide sequence and exact localization of the neomycin phosphotransferase gene from transposon Tn5 (${\it English}$)

BCH-GENE-SCBD-15001-5

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