





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

ENETIC ELEMENT (GENE)	BCH-GENE-SCBD-15003-
	LAST UPDATED: 27 FEB 2014
General information	
Name of genetic element	
Phosphomannose Isomerase gene	EN
Alternate genetic element name(s) (synonym(s))	
manA	EN
pmi	EN
Abbreviation	<u>'</u>
CS-pmi-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	
Phosphomannose Isomerase (PMI) protein	EN
Biological function of the protein	
Phosphomannose isomerase (PMI) catalyzes the reversible interconversion of 6-phosphate and fructose 6-phosphate. Plant cells lacking this enzyme are inconversion on synthetic medium containing mannose as a carbon source.	
Related trait(s) or use(s) in biotechnology	

Selectable marker genes and reporter genes Other

Mannose tolerance

## **Additional Information**

Other relevant website addresses and/or attached documents

? Phosphomannose isomerase: An efficient selectable marker for plant transformation ( English )

BCH-GENE-SCBD-15003-7

## **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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