





ΕN

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

ENETIC ELEMENT (GENE)	BCH-GENE-SCBD-110886-1
	LAST UPDATED: 30 AUG 201
General information	
Name of genetic element	
Root locus C gene	EN
Alternate genetic element name(s) (synonym(s))	
Riorf16	EN
rolC	EN
Abbreviation	
CS-rolC-AGRRH	EN
Category	
Protein coding sequence	
s this genetic element a synthetic molecule?	
No	
Donor organism	
Donor organism(s)	
BCH-ORGA-SCBD-110857-2 ORGANISM AGROBACTERIUM P Bacteria	RHIZOGENES (AGRRH)
Characteristics of the protein coding sequence	
Name of the protein expressed by the coding sequence	
Cytokinin-beta-glucosidase	EN
Biological function of the protein	

The cytokinin-beta-glucosidase encoded by rolC hydrolyses cytokinin-glucosides, releasing active forms of cytokinin.

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

Changes in physiology and/or production

## **Additional Information**

The developmental, physiological and morphological alterations caused by rolC expression in transgenic plants are primarily due to a modification of the hormone balance.

ΕN

Other relevant website addresses and/or attached documents

? The plant oncogene rolC is responsible for the release of cytokinins from glucoside conjugates. ( English )

? Independent and synergistic activity of rol A, B and C loci in stimulating abnormal growth in plants (*English*)

## BCH-GENE-SCBD-110886-1

## **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