





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

GENETIC ELEMENT (GENE) BCH-GENE-SCBD-46004-7		
	LAST UPDATED: 24 FEB 2021	
General information		
Name of genetic element		
Beta-glucuronidase coding sequence	EN	
Abbreviation		
CS-uidA-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

Beta-Glucuronidase	EN
Biological function of the protein	

The uidA gene expresses beta-glucuronidase (GUS). Expression of this enzyme allows	
detection in the laboratory of transformed cells by using a simple colour change assay.	EN
Typically used as a reporter gene or visual marker gene.	

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

Selectable marker genes and reporter genes

#### **Additional Information**

Other relevant website addresses and/or attached documents

? GUS reporter system - Wikipedia ( English )

 $? \; {\rm GUS} \; {\rm fusions} \; {\rm beta-glucuronidase} \; {\rm as} \; {\rm a} \; {\rm sensitive} \; {\rm and} \; {\rm versatile} \; {\rm gene} \; {\rm fusion} \; {\rm marker} \; {\rm in} \; {\rm higher} \; {\rm plants..pdf} \; ($ 

? beta-Glucuronidase from Escherichia coli as a gene-fusion marker.pdf ( *English* )

#### BCH-GENE-SCBD-46004-7

# **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 413 rue Saint-Jacques, suite 800 Montreal, Québec, H2Y 1N9 Canada Fax: +1 514 288-6588 Email: secretariat@cbd.int