





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

GENETIC ELEMENT (GENE)	BCH-GENE-SCBD-111594-1	N DE
	LAST UPDATED: 03 FEB	8 2017
General information		
Name of genetic element		
Xylanase Z gene		EN
Alternate genetic element name(s) (synonym(s))		
endo-1,4-beta-xylanase Z		EN
1,4-beta-D-xylan xylanohydrolase Z		EN
Abbreviation		
CS-xynZ-CLOTM		EN
Category		
Protein coding sequence		
Is this genetic element a synthetic molecule?		
No		
Donor organism		

Donor organism(s)

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BCH-ORGA-SCBD-110930-2 ORGANISM RUMINICLOSTRIDIUM THERMOCELLUM (CLOTM)
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Bacteria

# Characteristics of the protein coding sequence

Name of the protein expressed by the coding sequence

Xylanase Z

ΕN

ΕN

Biological function of the protein

Xylanases hydrolyse the glycosidic bonds between unsubstituted xylose residues, leading to the degradation of xylan, a component of the hemicellulose found in plant cell walls.

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

Use in industrial applications

### **Additional Information**

Other relevant website addresses and/or attached documents

? A Thermostable Xylanase from Clostridium thermocellum Expressed at High Levels in the Apoplast of Transgenic Tobacco Has No Detrimental Effects and Is Easily Purified (*English*)

#### BCH-GENE-SCBD-111594-1

# **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