





Biosafety Clearing-House (BCH)

SENETIC ELEMENT (GENE)	-2CBD-111937-2
LAST UPDATE	ED: 24 JAN 2022
General information	
Name of genetic element	
Lycopene epsilon-cyclase fragment	EN
Abbreviation	
CS-lyce_RNAi-ANACO	EN
Category	
Double-stranded RNA	
Is this genetic element a synthetic molecule?	
No	
Donor organism	
Donor organism(s)	
BCH-ORGA-SCBD-111928-1 ORGANISM ANANAS COMOSUS (PINEAPPLE, ANACO) Crops	
Characteristics of the protein coding sequence	
Biological function of the protein	
	EN
Related trait(s) or use(s) in biotechnology	
Changes in quality and/or metabolite content Pigmentation / Coloration	
Additional Information	
Lycopene ϵ -cyclase (LCY- ϵ) is involved in the first step of the α -branch synthesis pathway carotenoids from lycopene in plants.	y of EN
Other relevant website addresses and/or attached documents	
? Downregulation of the lycopene ϵ -cyclase gene increases carotenoid synthesis via the	β-branch-

specific pathway and enhances salt-stress tolerance in sweetpotato transgenic calli (English)

BCH-GENE-SCBD-111937-2

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