





Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)	BCH-GENE-SCBD-112017-
	LAST UPDATED: 18 FEB 2022
General information	
Name of genetic element	
Homeodomain-leucine zipper 4 gene	EN
Alternate genetic element name(s) (synonym(s))	
HD-zip	EN
CS-HD4-HELAN	EN
Abbreviation	
CS-HB4-HELAN	EN
Category	'
Protein coding sequence	
Is this genetic element a synthetic molecule?	
No	
Donor organism	
Donor organism(s)	
BCH-ORGA-SCBD-100348-5 ORGANISM HELIANTHUS ANNUUS (SUNFLOW Crops	WER, HELAN)
Characteristics of the protein coding sequence	
Name of the protein expressed by the coding sequence	
Homeodomain-leucine zipper 4	EN
Biological function of the protein	
HAHB4 is a member of the Helianthus annuus (sunflower) subfamily I of I has been previously shown to be transcriptionally regulated by the available by abscisic acid.	· ·
Related trait(s) or use(s) in biotechnology	

Tolerance to abiotic stress

Drought

Salinity

Additional Information

Other relevant website addresses and/or attached documents

? Modulation of plant growth by HD-Zip class I and II transcription factors in response to environmental stimuli (English)

? Hahb-4, a homeobox-leucine zipper gene potentially involved in abscisic acid-dependent responses to water stress in sunflower (English)

BCH-GENE-SCBD-112017-2

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