

Biosafety Clearing-House (BCH)

GENETIC ELEMENT (GENE)

BCH-GENE-SCBD-109212-1

LAST UPDATED: 10 NOV 2015

General information

Name of genetic element

Chimeric wheat gliadin

EN

Abbreviation

IR-Gli-SYNTH

EN

Category

Double-stranded RNA

Is this genetic element a synthetic molecule?

Yes

Characteristics of the protein coding sequence

Additional Information

Two fragments of 170 and 191 bp, corresponding to the most conserved regions from, respectively, α - and ω -gliadins, were selected for use as interfering RNA (IR) fragments. These fragments were amplified from bread wheat, assembled to obtain the full chimeric 361-bp ω/α fragment, cloned into the recombination sites of pCR8/GW/TOPO vector (Invitrogen), and recombined to provide the final pDhp- ω/α vector.

EN

Other relevant website addresses and/or attached documents

? [Effective shutdown in the expression of celiac disease-related wheat gliadin T-cell epitopes by RNA interference](#) (English)

[BCH-GENE-SCBD-109212-1](#)

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**

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