





Biosafety Clearing-House (BCH)

BCH-GENE-SCBD-115355-3 **GENETIC ELEMENT (GENE)** LAST UPDATED: 11 FEB 2021 **General information** Name of genetic element 5' untranslated region of α -globulin B ΕN Alternate genetic element name(s) (synonym(s)) P-AGP ΕN Abbreviation P-alpha_glbB-GOSHI ΕN Category Promoter Is this genetic element a synthetic molecule? No **Donor organism** Donor organism(s) BCH-ORGA-SCBD-12080-6 ORGANISM GOSSYPIUM HIRSUTUM (COTTON)

Characteristics of the protein coding sequence

Additional Information

Crops

The 5' untranslated region of the *Gossypium hirsutum* α -globulin B gene consists of the promotoer (1108 basepairs) and a 5' transcribed, untranslated sequence (36 basepairs) of the gene. The promoter is seed-specific and confined to middle to late stages of embryo development; only active at 15 days post-anthesis, during the cotyledon expansion stage in the developing embryo and increasing thereafter until embryo maturation. Transcripts under transcriptional control of this promoter are found at high levels in the dry seed. In contrast, the promoter is inactive in the stem, leaf, root, pollen, and floral bud tissues. Additionally, water stress does not induce transcriptional activity.

Other relevant website addresses and/or attached documents

ΕN

? USA Patent - US7626081B2.pdf (English)

? Cotton α -Globulin Promoter - Isolation and Functional Characterization in Transgenic Cotton, Arabidopsis, and Tobacco.pdf (English)

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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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