

Title (en)
REGULATION OF GENE EXPRESSION IN EUKARYOTES

Title (de)
REGULATION DER GENEXPRESSSION IN EUKARYOTEN

Title (fr)
REGULATION DE L'EXPRESSION D'UN GENE CHEZ UN EUCARYOTE

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Application
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Abstract (en)
[origin: WO9730162A1] There is provided a method of regulating a eukaryotically active gene, comprising transforming a cell with a transformation cassette expressing a modulator gene product regulating the eukaryotically gene or its product and a further gene product regulating said modulator gene or its product, the promoters of two of said gene, modulator gene and further genes being selected from inducible promoters and developmental promoters for the same or complementary tissues. The lethal gene expressing barnase, a ribonuclease of *B. amyloliquefaciens*, is placed under the control of a tissue specific promoter, such as those derived from PrMADS1, 2 or 3 of *Pinus radiata* or EGM1, 2 or 3 of *Eucalyptus grandis*. The same tissue specific promoter is used to express LacIq gene, a repressor for barnase (barstar) being promoted by a modified 35s RNA CaMV promoter including the lac operon. The cassette is used to transform plant cells for regeneration into plants expressing the barnase in the target tissues with improved specificity and reduced promoter leakage.

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