

Title (en)

RESTRICTION ENZYME GENE DISCOVERY METHOD

Title (de)

METHODE ZUR ERKENNUNG DER GENE VON RESTRIKTIONSENZYMEN

Title (fr)

DECOUVERTE DE GENES D'ENZYMES DE RESTRICTION

Publication

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Application

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Abstract (en)

[origin: WO9964632A1] The invention is directed to direct cloning of intact genes, with a high probability that the orientation of expression is known in advance, and with a low probability of being associated with extraneous possibly toxic genes. The invention is particularly directed to obtaining genes encoded in DNA cassettes comprised of repeat sequences flanking variable open reading frames. The invention encompasses obtaining such cassette-encoded genes using oligonucleotides hybridizing to the repeated elements, cloning them and expressing them. Expression may employ tightly regulated vectors and useful strains disclosed. Methods for identifying restriction endonuclease and DNA methyltransferase genes in the absence of prior information about the sequences or biochemical specificities of these are also disclosed.

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