

Title (en)
GENE INSERTION BY DIRECT LIGATION -i(IN VITRO).

Title (de)
GENINSERTION DURCH DIREKTE -(IN VITRO) LIGATION.

Title (fr)
INSERTION GENIQUE PAR LIAISON -i(IN VITRO) DIRECTE.

Publication
EP 0658196 A4 19990707 (EN)

Application
EP 94919295 A 19940527

Priority
• US 9406079 W 19940527
• US 7016493 A 19930528

Abstract (en)
[origin: WO9428114A1] A method is described for constructing recombinant double stranded DNA viruses, especially baculoviruses and granulosis viruses, by the direct ligation of DNA fragments in vitro. Also described are direct ligation virus vectors, which are insect viruses that have been modified by the insertion of at least one recognition site for a specific restriction endonuclease which does not cut the viral genome, so as to facilitate the insertion of foreign DNA segments by DNA ligation in vitro, and to the recombinant viruses formed by this direct ligation. Further described are modular expression vectors (plasmids) that are designed to facilitate the assembly of gene expression cassettes or other DNA fragments into virus insertion modules (as shown in the figure) which are inserted subsequently into direct ligation virus vectors at predefined sites and in a predefined orientation by ligation in vitro, and to recombinant viruses derived from said modular expression vectors.

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Citation (search report)
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• [PA] WO 9404699 A1 19940303 - US HEALTH [US]
• [A] EP 0228036 A2 19870708 - MICROGENESYS INC [US]
• [XD] KITTS, P.A. ET AL.: "Linearization of baculovirus DNA enhances the recovery of recombinant virus expression vectors", NUCLEIC ACIDS RESEARCH, vol. 18, no. 19, 1990, pages 5667 - 5672, XP002100321
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• [A] MCCUTCHEN, B.F. ET AL.: "Development of a recombinant baculovirus expressing an insect-selective neurotoxin: potential for pest control", BIOTECHNOLOGY, vol. 9, no. 9, 1991, pages 848 - 852, XP002100324
• See references of WO 9428114A1

Designated contracting state (EPC)
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