Title (en)

CONSTITUTIVE AND INDUCIBLE EPIDERMAL VECTOR SYSTEMS.

Title (de)

KONSTITUTIVES UND INDUZIEBARES VEKTORSYSTEM FÜR DIE EPIDERMIS.

Title (fr)

SYSTEMES DE VECTEURS EPIDERMIQUES CONSTITUTIFS ET INDUCTIFS.

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Application

EP 93910875 A 19930428

Priority

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- US 87628692 A 19920430

Abstract (en)

[origin: WO9322431A1] A loricrin constitutive vector for efficient expression of a nucleic acid sequence in epidermal cells comprising the 5' flanking region of the loricrin gene, said flanking region containing a TATA box, a cap site and a first intron and intron/exon boundary all in appropriate sequential and positional relationship for expression of a nucleic acid cassette, a 3' flanking sequence of the loricrin gene and a linker containing a unique restriction endonuclease site at the location of the start and stop codon. Said linker connecting the 5' flanking region to the 3' flanking sequence and said linker further providing a position for inserting the cassette. The cassette contains the specific nucleic acid sequence to be expressed. Also, there is a keratin K6 inducible vector for regulating expression of a nucleic acid sequence in epidermal cells comprising the 5' flanking region of the keratin K6 gene, said flanking region including the TATA box, a cap site and the first intron and intron/exon boundary all in sequential and positional relationship for expression of a nucleic acid cassette, a 3' flanking sequence of the keratin K6 gene, and a polylinker having a plurality of restriction endonuclease sites. The polylinker connects the 5' flanking region to the 3' flanking sequence and further provides a position for insertion of the cassette. The keratin K6 and loricrin vectors can be further regulated by the addition of a Vitamin D regulatory element. The vectors can be used in a bioreactor for generating a variety of products including proteins, polypeptides or antisense RNAs. The vectors can also be used for gene therapy in treatment of a variety of diseases in animals and humans including wound healing, surgical incisions, skin ulcers, psoriasis and skin cancer, and in vaccination.

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