

Title (en)

RETROVIRAL VECTORS CAPABLE OF TRANSDUCING NON-DIVIDING CELLS

Title (de)

RETROVIRALE VEKTOREN, DIE SICH NICHT TEILENDE ZELLEN TRANSDUZIEREN KÖNNEN

Title (fr)

VECTEURS RETROVIRAUX POUVANT TRANSDUIRE DES CELLULES NE SE DIVISANT PAS

Publication

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Application

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Abstract (en)

[origin: WO9812314A1] In accordance with the present invention, methods have been developed to modify retroviral vectors derived from viruses which are not known to be pathogenic in humans (e.g., MLV), so that such vectors are rendered capable of transducing heterologous sequences into non-dividing cells. Thus, it has been discovered that retroviruses can be rendered capable of infecting non-dividing cells by introducing into the viral particle one of several specifically defined modifications. For example, an element which is recognized by the nuclear import machinery of a non-dividing cell can be associated with the nucleoprotein complex of the retrovirus. Alternatively, at least one protein encoded by viral gag or pol nucleic acid is modified so as to be recognized by the nuclear import machinery of a non-dividing cell.

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