

Title (en)

ADENOVIRAL VECTORS WITH MODIFIED CAPSID PROTEINS

Title (de)

ADENOVIRALE VEKTOREN MIT MODIFIZIERTEN KAPSID PROTEINE

Title (fr)

VECTEURS D'ADENOVIRUS COMPRENANT DES PROTEINES CAPSIDIQUES MODIFIEES

Publication

EP 1044274 A2 20001018 (EN)

Application

EP 99903122 A 19990115

Priority

- US 9900913 W 19990115
- US 7167498 P 19980116

Abstract (en)

[origin: WO9936545A2] The present invention is directed to adenoviral vectors having modified capsid proteins which comprise heterologous ligands that improve and/or alter the infectious capability of the vector. Such ligands are capable of binding to target cells, and their inclusion into adenoviral vectors facilitates the binding and infectious properties of the vectors. In a preferred embodiment, the ligands are peptides, and the target cells are epithelial cells. The invention is also directed to novel heterologous ligands, to ligand-receptor complexes, and to compositions comprising the adenoviral vectors of the invention. Additional aspects of the invention include methods to use the adenoviral vectors of the invention to deliver transgenes to target cells.

IPC 1-7

C12N 15/34; **C12N 15/86**; **C07K 14/075**; **A61K 48/00**

IPC 8 full level

C12N 15/09 (2006.01); **A61K 35/76** (2006.01); **A61K 48/00** (2006.01); **C07K 14/075** (2006.01); **C12N 7/00** (2006.01); **C12N 15/34** (2006.01); **C12N 15/861** (2006.01); **A61K 38/00** (2006.01)

CPC (source: EP)

C12N 15/86 (2013.01); **A61K 38/00** (2013.01); **A61K 48/00** (2013.01); **C07K 2319/00** (2013.01); **C12N 2710/10343** (2013.01); **C12N 2710/10345** (2013.01); **C12N 2810/40** (2013.01); **C12N 2810/405** (2013.01); **C12N 2810/60** (2013.01); **C12N 2810/6018** (2013.01)

Citation (search report)

See references of WO 9936545A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9936545 A2 19990722; **WO 9936545 A3 19991104**; AU 2321999 A 19990802; CA 2317941 A1 19990722; EP 1044274 A2 20001018; JP 2002508967 A 20020326

DOCDB simple family (application)

US 9900913 W 19990115; AU 2321999 A 19990115; CA 2317941 A 19990115; EP 99903122 A 19990115; JP 2000540247 A 19990115