

Title (en)  
RECEPTOR SPECIFIC CHIMERIC VIRAL SURFACE POLYPEPTIDES FOR VIRAL AND PARTICLE INCORPORATION AND INTERNALIZATION IN TARGET CELLS

Title (de)  
REZEPTORSPEZIFISCHE, CHIMÄRE, VIRALE OBERFLÄCHENPOLYPEPTIDE FÜR DIE ÜBERTRAGUNG VON VIRALEN ODER NICHT-VIRALEN PARTIKELN IN ZIELZELLEN.

Title (fr)  
POLYPEPTIDES DE LA SURFACE VIRALE, CHIMERES ET RECEPTEUR-SPECIFIQUES, POUR L'INCORPORATION ET L'INTERNALISATION DE VIRUS OU DE PARTICULES DANS DES CELLULES CIBLES

Publication  
**EP 0880596 A1 19981202 (EN)**

Application  
**EP 96946385 A 19961202**

Priority  
• US 9619196 W 19961202  
• US 58013995 A 19951228

Abstract (en)  
[origin: WO9724453A1] Viral and non-viral particles can be incorporated by chimeric viral surface polypeptides that are constructed to include a portion of a viral surface polypeptide and a portion of a ligand specific for a receptor of the LDL-receptor family. Particles incorporated by the chimeras can target cells specific for the receptor type for which the chimera is designed, and can be internalized in these cells. Exemplary models of the invention include chimeras constructed with a ligand portion of a SERPIN, for example PAI-1, for targeting cells expressing uPAR bound uPA, and for forming an internalizable complex upon contact with LRP cell surface receptor. Accordingly, when the particle is internalized in the target cell, so is any genome or polynucleotide encoding a polypeptide for expression that is contained in the viral or non-viral particle. Cell specific gene therapy protocols are thereby accomplished by the invention.

IPC 1-7  
**C12N 15/87**; **C12N 15/62**; **C12N 15/86**; **A61K 48/00**; **C07K 14/81**; **C07K 19/00**

IPC 8 full level  
**C12N 15/09** (2006.01); **A61K 38/00** (2006.01); **A61K 47/48** (2006.01); **A61K 48/00** (2006.01); **C07K 14/81** (2006.01); **C07K 19/00** (2006.01); **C12N 15/62** (2006.01); **C12N 15/86** (2006.01); **C12N 15/87** (2006.01)

CPC (source: EP)  
**A61K 47/645** (2017.07); **C07K 14/8132** (2013.01); **C12N 15/62** (2013.01); **C12N 15/86** (2013.01); **C12N 15/87** (2013.01); **A61K 38/00** (2013.01); **A61K 48/00** (2013.01); **C07K 2319/00** (2013.01); **C07K 2319/735** (2013.01); **C07K 2319/75** (2013.01); **C12N 2740/13043** (2013.01); **Y02A 50/30** (2017.12)

Citation (search report)  
See references of WO 9724453A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9724453 A1 19970710**; EP 0880596 A1 19981202; JP 2001519647 A 20011023

DOCDB simple family (application)  
**US 9619196 W 19961202**; EP 96946385 A 19961202; JP 52432697 A 19961202