

Title (en)  
RECOMBINANT VECTOR WITH OPTIMIZED A-BULGE

Title (de)  
REKOMBINANTER VEKTOR MIT OPTIMIERTER A-WÖLBUNG

Title (fr)  
VECTEUR RECOMBINANT AYANT UN RENFLEMENT A OPTIMISÉ

Publication  
**EP 3030659 A1 20160615 (EN)**

Application  
**EP 14835030 A 20140805**

Priority  
• US 201361862433 P 20130805  
• US 2014049831 W 20140805

Abstract (en)  
[origin: WO2015021077A1] The disclosure describes replication competent retroviral vectors (RCR) for gene therapy and gene delivery. The RCR includes an IRES sequence having 6-7 A's in A-bulge of the bifurcation region. The disclosure provides recombinant replication competent retrovirus comprising: a retroviral GAG protein; a retroviral POL protein; a retroviral envelope; a retroviral polynucleotide comprising Long-Terminal Repeat (LTR) sequences at the 3' end of the retroviral polynucleotide sequence, a promoter sequence at the 5' end of the retroviral polynucleotide.

IPC 8 full level  
**C12N 15/113** (2010.01)

CPC (source: EP)  
**A61P 19/02** (2017.12); **A61P 29/00** (2017.12); **A61P 35/00** (2017.12); **A61P 37/02** (2017.12); **A61P 43/00** (2017.12); **C12N 15/111** (2013.01); **C12N 2310/14** (2013.01); **C12N 2310/141** (2013.01); **C12N 2320/32** (2013.01); **C12N 2330/51** (2013.01)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2015021077 A1 20150212**; AU 2014306093 A1 20160317; AU 2014306093 A2 20160421; CA 2920049 A1 20150212; CN 105579581 A 20160511; EP 3030659 A1 20160615; EP 3030659 A4 20170111; JP 2016526920 A 20160908

DOCDB simple family (application)  
**US 2014049831 W 20140805**; AU 2014306093 A 20140805; CA 2920049 A 20140805; CN 201480053358 A 20140805; EP 14835030 A 20140805; JP 2016533383 A 20140805