

Title (en)  
NOVEL 33 PHAGE VECTORS

Title (de)  
NEUE PHAGENVEKTOREN VOM TYP 33

Title (fr)  
VECTEURS DE PHAGE DE TYPE 33

Publication  
**EP 1497421 A1 20050119 (EN)**

Application  
**EP 02807310 A 20020426**

Priority  
US 0213610 W 20020426

Abstract (en)  
[origin: WO03091425A1] A phage genome is engineered to include a novel restriction site at one of two different positions. In a first embodiment, a restriction site is inserted into the phage genome I between the end of gene IV and the MOS hairpin which serves as a phage packaging signal for newly synthesized single strands of phage DNA. In a second embodiment, a restriction site is inserted into the phage genome after the MOS hairpin and prior to the minus strand origin. Once the phage genome is modified to contain the new restriction site, the vector can be engineered to be a "33" vector by inserting at the new restriction site a nucleotide sequence encoding at least a functional domain of pIII and at least a first cloning site for receiving a gene encoding a polypeptide to be displayed and, optionally a second cloning site for receiving a second gene encoding a polypeptide capable of dimerizing with the polypeptide to be displayed. In particularly useful embodiments, the novel vectors are engineered to produce phage particles that display antibodies.

IPC 1-7  
**C12N 15/00**; **C12N 15/09**; **C12N 7/01**; **C12Q 1/68**; **C07H 21/04**

IPC 8 full level  
**C12N 7/01** (2006.01); **C12N 15/10** (2006.01); **C12N 15/70** (2006.01); **C40B 40/02** (2006.01)

CPC (source: EP)  
**C12N 15/1037** (2013.01); **C12N 15/70** (2013.01); **C40B 40/02** (2013.01)

Citation (search report)  
See references of WO 03091425A1

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

DOCDB simple family (publication)  
**WO 03091425 A1 20031106**; AU 2002332392 A1 20031110; EP 1497421 A1 20050119

DOCDB simple family (application)  
**US 0213610 W 20020426**; AU 2002332392 A 20020426; EP 02807310 A 20020426