

Title (en)  
SYSTEM FOR EXTERNAL CONTROL OF ONCOLYTIC VIRUS REPLICATION

Title (de)  
SYSTEM ZUR EXTERNEN KONTROLLE VON ONKOLYTISCHER VIRUSREPLIKATION

Title (fr)  
SYSTEME POUR LA COMMANDE EXTERNE DE LA REPRODUCTION D'UN VIRUS ONCOLYTIQUE

Publication  
**EP 1597354 A4 20080702 (EN)**

Application  
**EP 04775799 A 20040224**

Priority  
• US 2004005518 W 20040224  
• US 45023203 P 20030224

Abstract (en)  
[origin: WO2005007832A2] Compositions, methods and a system for external regulation of oncolytic virus replication are provided. The oncolytic virus contains a cell type-specific transcriptional regulatory element (CT-TRE) and an inducible transactivator regulated transcriptional regulatory element. The virus preferentially replicates in cells that allow a CT-TRE to function. In addition, the concentration of an inducing agent or condition is used to regulate a transactivator regulated transcriptional regulatory element, thereby providing at least two levels of control of oncolytic viral replication.

IPC 1-7  
**C12N 15/80**; **C12N 15/86**; **C12N 15/861**; **A01N 63/00**; **A01N 65/00**

IPC 8 full level  
**A01N 63/00** (2006.01); **A01N 65/00** (2006.01); **A61K 31/7088** (2006.01); **A61K 35/76** (2006.01); **A61K 35/761** (2015.01); **A61K 48/00** (2006.01); **A61P 35/00** (2006.01); **C12N 1/00** (2006.01); **C12N 15/34** (2006.01); **C12N 15/67** (2006.01); **C12N 15/80** (2006.01); **C12N 15/86** (2006.01); **C12N 15/861** (2006.01)

IPC 8 main group level  
**C12N** (2006.01)

CPC (source: EP)  
**A61K 35/761** (2013.01); **A61K 38/193** (2013.01); **A61K 38/45** (2013.01); **A61P 35/00** (2017.12); **C12N 7/00** (2013.01); **C12N 15/86** (2013.01); **C12N 27/10/10332** (2013.01); **C12N 27/10/10343** (2013.01); **C12N 2830/003** (2013.01); **C12N 2830/008** (2013.01)

Citation (search report)  
• [Y] CHONG HEUNG ET AL: "A system for small-molecule control of conditionally replication-competent adenoviral vectors", MOLECULAR THERAPY, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 5, no. 2, 1 February 2002 (2002-02-01), pages 195 - 203, XP002344532, ISSN: 1525-0016  
• [Y] SMITH-ARICA J R ET AL: "Cell-type-specific and regulatable transgenesis in the adult brain: adenovirus-encoded combined transcriptional targeting and inducible transgene expression", MOLECULAR THERAPY, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 2, no. 6, 1 December 2000 (2000-12-01), pages 579 - 587, XP002311879, ISSN: 1525-0016  
• See references of WO 2005007832A2

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DOCDB simple family (publication)  
**WO 2005007832 A2 20050127**; **WO 2005007832 A3 20051215**; CA 2516652 A1 20050127; EP 1597354 A2 20051123; EP 1597354 A4 20080702; JP 2007500012 A 20070111

DOCDB simple family (application)  
**US 2004005518 W 20040224**; CA 2516652 A 20040224; EP 04775799 A 20040224; JP 2006532296 A 20040224