

INFORME DE BÚSQUEDA DE PATENTES				
N° de solicitud: 1618865				
CRITERIOS PARA LA BÚSQUEDA (Anexar pantallazo o reporte en PDF, junto con los boléanos utilizados*. Para el caso de secuencias, anexar alineamientos)				
Palabras clave utilizadas		Adeno-associated virus (AAV), serotype AAV-Rh74 and related AAV vectors, blood clotting factor (Factor IX), hemophilia B		
CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA		CIP: A61K 48/00, C07H 21/04, C07K 14/015, C12N 15/864 // 7/01 CPC (Opcional): -		
DOCUMENTOS CONSIDERADOS RELEVANTES (documentos patentes, literatura no patente, etc...)				
Informes/Base de datos	N° de solicitud/ Autor**	Fecha de Publicación/Presentación (DD/MM/AAAA)	Reiv. afectadas (Con indicación, si procede, de las partes relevantes o números de secuencias)	Categorías especiales de los documentos citados***
SIPI	CO14253041	18/11/2014	Rv. 1 a 6, 8 a 14, 16 a 19 (Pág. 60, Tabla, líneas 19 y 20, Fig. 7A – D - Pág. 61, Rv. 1, 6).	X
EPO (14/12/2016)	WO2013158879	24/10/2013	-	-
	WO2013123503	22/08/2013	-	-
International Search Report (30/01/2015)	WO2013078316	30/05/2013	Rv. 7 y 15 (Pág. 5, Párr. [0017], Fig. 1 - Pág. 6, Párr. [0024]).	Y
	WO2013078400	30/05/2013	Rv. 7 y 15 (Pág. 7, Párr. [0025] - Pág. 13, Párr. [0046] - Fig. 8 – Pág. 47 y 48, Rv. 9 a 11).	Y
Patbase*	US20110229971	22/09/2011	-	A
	US20070036760	15/02/2007	-	A
	US20080153156	26/06/2008	-	A
	US2009191588	30/07/2009	-	A
	US20010006955	05/07/2001	-	A
	US20080213222	04/09/2008	-	A
	US2002155580	24/10/2002	-	A
*** Categorías especiales de documentos citados:				
“A” documento que define el estado general de la técnica no considerado como particularmente relevante. “E” solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior. “P” documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada.		“X” documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado. “Y” documento particularmente relevante; la invención reivindicada no puede considerarse que implique una actividad inventiva cuando el documento se asocia a otro u otros documentos de la misma naturaleza, cuya combinación resulta evidente para un experto en la materia.		
**** Indicar entre paréntesis la Autoridad que realizó la búsqueda o el informe preliminar Ejs: EPO, JP, INAPI.				

Fecha del reporte de búsqueda:	05/07/2017
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Búsqueda en Patbase

PatBase

Username: SIC3@patbase.com
Subaccount: Mario Forero

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Command Reference

Bibliographic data

Textual data

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Operators

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Patent number formats

PatBase Thesaurus

Classification finder

#	Search query	Results	Options
8	TAC=((((recombinant* AND AAV) AND (gene* NEAR therap*)) AND (Factor NEAR IX)) AND EC=((A61K OR C07H OR C07K OR C12N)	27	View Browse Hits Optimise more...
7	TAC=((((recombinant* AND AAV) AND (gene* NEAR therap*))) AND EC=((A61K OR C07H OR C07K OR C12N)	209	View Browse Hits Optimise more...
6	TAC=((((recombinant* AND AAV) AND (Factor NEAR IX))) AND EC=((A61K OR C07H OR C07K OR C12N)	45	View Browse Hits Optimise more...
5	TAC=((((recombinant* AND AAV) AND (Factor NEAR IX)))	55	View Browse Hits Optimise more...
4	TAC=((recombinant* AND ((adeno AND associated AND virus) OR AAV)) AND (Factor NEAR IX) NEAR hemophilia*)	4	View Browse Hits Optimise more...
3	TAC=((vector* NEAR (adeno-associated AND virus OR rAAV)) OR (Factor AND IX)) NEAR hemophilia*)	34	View Browse Hits Optimise more...
2	TAC=((vector* NEAR (adeno AND associated AND virus)) OR (Factor AND IX)) NEAR hemophilia*)	34	View Browse Hits Optimise more...
1	TAC=((vector* NEAR AAV) AND (Factor NEAR IX)) AND hemophilia*)	23	View Browse Hits Optimise more...

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6) Family number: 23890680 (US2008213222A) Similar • Translate • Full-text • Status • Citations

Title: [EN] METHODS AND COMPOSITIONS FOR USE IN **GENE THERAPY** FOR TREATMENT OF HEMOPHILIA

Abstract: Source: US2008213222A [EN] The invention includes a composition comprising a **recombinant** adeno-associated viral vector comprising at least two adeno-associated virus inverted terminal repeats, a promoter/regulatory sequence, isolated DNA encoding **Factor IX** and accompanying 5' and 3' untranslated regions and a transcription termination

Classifications: [Classification Explorer](#)

International (ipc 8a): A61K38/43 A61K38/48 A61K45/00 A61K48/00 A61P7/04 C12N15/00 C12N15/63 C12N15/86 C12N15/864 C12N7/01 C12N9/64 (Advanced/Invention); A61K38/43 C12N7/01 (Advanced/Non-invention); A61K48/00 C12N15/63 C12N15/86 C12N7/01 (Core/Invention)

International (ipc 1-7): A61K38/43 A61K48/00 C12N15/63 C12N15/86 C12N7/01

CPC: C12Y304/21022 C12N15/86 A61K38/4846 A61K48/00 C12N9/644 C12N2750/14143 C12N2750/14151

European: A61K38/48K21 C12N15/86 C12N9/64F21G K61K48/00 M12N207/00 M12N750/14143 M12N750/14151

US: 424/93.2 424/93.200P 424/93.6 435/320.1 435/320.100S 435/455 435/456 514/44.00RP 514/44R

Family: [Family Explorer](#)

Publication number	Publication date	Application number	Application date	Links
AT486614 E	20101115	AT19980910320T	19980312	
AU199864586 A1	19981012	AU19980084586	19980312	
AU200248844 A5	20020808	AU20020048844	20020619	

Menu - Search - History - Session - Folder - Order Help - Logoff

2) Family number: 28180428 (US2001006955A) Similar • Translate • Full-text • Status • Citations

Title: [EN] METHOD FOR **RECOMBINANT** ADENO-ASSOCIATED VIRUS-DIRECTED **GENE THERAPY**

Abstract: Source: US2001006955A [EN] A method of prolonging gene expression by reducing immune response to a **recombinant** adeno-associated virus (**AAV**) bearing a desired gene administered into the muscle of a mammal is described.

Classifications: [Classification Explorer](#)

International (ipc 8a): A61K31/70 A61K35/76 A61K38/00 A61K38/21 A61K38/22 A61K38/27 A61K38/28 A61K38/43 A61K48/00 C12N15/86 C12N15/864 (Advanced/Invention); A61K38/00 A61K38/21 A61K38/22 A61K38/27 A61K38/28 A61K38/43 C12N15/86 (Advanced/Non-invention); A61K35/66 A61K38/00 A61K38/21 A61K38/22 A61K38/27 A61K38/28 A61K38/43 A61K48/00 C12N15/864 (Core/Invention)

International (ipc 1-7): A01N43/04 A61K31/70 A61K35/76 A61K38/00 A61K38/21 A61K38/22 A61K38/27 A61K38/28 A61K38/43 A61K48/00 C12N15/63 C12N15/86 C12N15/861

CPC: A61K48/00 C12N15/86 C12N2750/14143

European: A61K48/00 C12N15/86 K61K48/00 M12N750/14143

US: 424/93.21 424/93.210S 435/320.1 435/320.100S 435/325 435/455 435/456 435/457 435/457S 435/69.1 435/69.100S 514/44 514/44.00R 514/44.00RP 514/44R

Family: [Family Explorer](#)

Publication number	Publication date	Application number	Application date	Links
AT380037 E	20071215	AT19970943290T	19970904	
AT465267 E	20100515	AT19970006222T	19970904	
AU199744795 A1	19980326	AU19970044795	19970904	
AU723497 B2	20000831	AU19970044795	19970904	
AU723497 C	20011011	AU19970044795	19970904	
CA2264483 AA	19980312	CA19972264483	19970904	
CA2264483 C	20110322	CA19972264483	19970904	
CN1233291 A	19991027	CN19971098714	19970904	
DE69738351 D1	20080117	DE19976038351	19970904	
DE69738351 T2	20081113	DE19976038351T	19970904	
DE69739860 D1	20100602	DE19976039860	19970904	
EP0932418 A2	19990804	EP19970943290	19970904	
EP0932418 B1	20071205	EP19970943290	19970904	

37) Family number: 41008072 (US2009191588A)

Similar • Translate • Full-text • Status • Citations

Title: [EN] VECTORS WITH MODIFIED INITIATION CODON FOR THE TRANSLATION OF **AAV**-REP78 USEFUL FOR PRODUCTION OF **AAV**

Abstract: Source: US2009191588A [EN] The present invention relates nucleic acid constructs for the production of **recombinant** parvoviral (e.g. adeno-associated viral) vectors in insect cells, to insect cells comprising such constructs and to methods wherein the cells are used to produce **recombinant** parvoviral virions. The insect cells preferably comprise a first nucleotide sequence encoding the parvoviral rep proteins whereby the initiation codon for translation of the parvoviral Rep78 protein is a suboptimal initiation codon that effects partial exon skipping upon expression in insect cells. The insect cell further comprises a second nucleotide sequence comprising at least one parvoviral (**AAV**) inverted terminal repeat (ITR) nucleotide sequence and a third nucleotide sequence comprising a sequences coding for the parvoviral capsid proteins.

Classifications: [Classification Explorer](#)

International (IPC 8-4): A61K39/12 C07H21/00 C07K14/22 C07K14/005 C07K14/01 C07K14/015 C12N15/09 C12N15/35 C12N15/63 C12N15/86 C12N15/864 C12N15/866 C12N5/02 C12N5/06 C12N5/10 C12N7/00 C12N7/01 C12N7/02 C12P21/00 C12P21/02 C12R1/93 (Advanced/Invention); C07K14/015 C12N15/864 C12N5/10 C12R1/93 (Advanced/Non-invention); C07H21/00 C07K14/00 C07K14/005 C12N15/09 C12N15/34 C12N15/63 C12N15/86 C12N15/864 C12N5/06 C12N5/10 C12N7/02 C12P21/00 (Core/Invention); C07K12/N (Subclass/Invention)

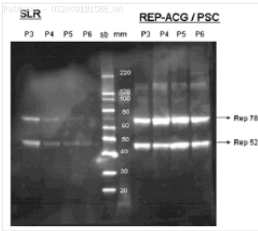
International (IPC 1-7): C12N15/864

CPC: C12N27/10/14143 C12N2800/50 C12N27/10/14044 C12N2750/14121 C12N15/864 C12N15/86 C07K14/005 C12N7/00 C12N2750/14122 C12N2750/14143 C12N2750/14152 C12N2800/105 C12N27/10/14152 C12N27/10/14144 C12N27/10/14043 C12N2750/14151

European: C07K14/005 C12N15/86 C12N7/00 M12N7/10/14143 M12N750/14122 M12N750/14143 M12N750/14152 M12N800/10C1 M12N800/50

US: 424/204.1 435/235.1 435/239 435/320.1 435/320.100S 435/325 435/348 435/348S 435/69.1 435/69.100P 435/70.1 530/350 536/23.72 536/23.720S

Family: [Family Explorer](#)



33) Family number: 32792752 (US2008153156A)

Similar • Translate • Full-text • Status • Citations

Title: [EN] EXPRESSION OF **Factor IX** IN GENE THERAPY VECTORS

Abstract: Source: US2008153156A [EN] Two mechanisms are provided for improving the expression of **Factor IX** in gene therapy vectors. The first is the use of a specific **Factor IX** polynucleotide coding sequence designed for optimal expression. The second is the use of transcriptional regulatory regions minimized in size so that they can be used to express **Factor IX**, as well as any other gene of interest, in a size-constrained environment such as in a self complementary gene therapy vector system.

Classifications: [Classification Explorer](#)

International (IPC 8-4): A61K48/00 C07H21/00 C07H21/04 C12N15/00 C12N15/11 C12N15/63 C12N15/85 C12N15/864 C12N9/64 (Advanced/Invention);

A61K48/00 C07H21/00 C12N15/00 C12N15/11 C12N15/864 C12N9/64 (Core/Invention)

CPC: C12Y304/21022 C12N9/647 A61K48/00 A61K48/0066 C07K14/775 C07K14/8125 C12N9/644 C12N15/85 C12N15/86 C12N2750/14143 C12N2830/008 C12N2830/15 C12N2830/205 C12N2830/85

European: A61K48/00D4 C07K14/775 C07K14/81B1B1 C12N15/85 C12N15/86 C12N9/64F21G C12N9/64F21Z K61K48/00 M12N750/14143 M12N830/00C M12N830/15 M12N830/20A

M12N830/85

US: 435/320.1 435/320.100P 435/69.5 536/23.5 536/23.500S 536/24.1 536/24.100S

Family: [Family Explorer](#)



Publication number	Publication date	Application number	Application date	Links
AT549037 E	20120315	AT20050796011T	20050909	📄 🔗
DE602005033187 D1	20120510	DE200560033187T	20050909	📄 🔗
DE602005041881 D1	20140109	DE200560041881T	20050909	📄 🔗
DK1804839 T3	20120410	DK20050796011T	20050909	📄 🔗
DK2438931 T3	20131202	DK20050150318T	20050909	📄 🔗
EP1804839 A2	20070711	EP20050796011	20050909	📄 🔗
EP1804839 A4	20091209	EP20050796011	20050909	📄 🔗
EP1804839 B1	20120314	EP20050796011	20050909	📄 🔗

32) Family number: 50525180 (US2007036780A)

Similar • Translate • Full-text • Status • Citations

Title: [EN] ADENO-ASSOCIATED VIRUS (**AAV**) CLADES, SEQUENCES, VECTORS CONTAINING SAME, AND USES THEREFOR

Abstract: Source: US2007036780A [EN] Sequences of novel adeno-associated virus capsids and vectors and host cells containing these sequences are provided. Also described are methods of using such host cells and vectors in production of rAAV particles. **AAV**-mediated delivery of therapeutic and immunogenic genes using the vectors of the invention is also provided.

Classifications: [Classification Explorer](#)

International (IPC 8-4): A61K31/7088 A61K35/76 A61K38/16 A61K47/48 A61K48/00 A61P11/00 A61P11/06 A61P31/04 A61P31/10 A61P31/12 A61P31/20 A61P35/00 A61P37/02 A61P43/00 A61P7/00 A61P7/04 C07K14/005 C07K14/01 C07K14/015 C07K14/075 C07K14/705 C12N1/00 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N15/11 C12N15/35 C12N15/37 C12N15/63 C12N15/86 C12N15/861 C12N15/864 C12N5/10 C12N7/00 C12N7/01 C12N9/64 C12Q1/70 C12R1/93 C40B40/02 (Advanced/Invention);

A61K35/76 A61K48/00 C12N15/09 C12R1/93 G06F19/14 (Advanced/Non-invention)

International (IPC 1-7): A61K48/00 C07K14/015 C12N15/864

CPC: C12N2750/14151 C12N2750/14122 C07K14/005 C12N15/86 C12N2750/14121 C12N2750/14122 C12N2750/14143 C12N2830/008 C12N2830/48 C12N2830/85 C07K14/705

C12N9/644 C12Y304/21022 C12N7/00 A61K48/00

European: C07K14/005 C12N15/86 C12N7/00 K61K48/00 M12N750/14121 M12N750/14122 M12N750/14143 M12N830/00C M12N830/48 M12N830/85

US: 424/199.1 424/233.1 424/93.2 435/235.1 435/243 435/320.1 435/325 435/456 514/1.1

Family: [Family Explorer](#)

Publication number	Publication date	Application number	Application date	Links
AU2004278684 AA	20050414	AU20040278684	20040930	📄 🔗
AU2004278684 BB	20110512	AU20040278684	20040930	📄 🔗
AU2008203421 AA	20080821	AU20080203421	20080725	📄 🔗
AU2008203421 BB	20110825	AU20080203421	20080725	📄 🔗
AU2011250849 AA	20111208	AU20110250849	20111116	📄 🔗
AU2011250849 BB	20130912	AU20110250849	20111116	📄 🔗
CA2537793 AA	20050414	CA20042537793	20040930	📄 🔗
CA2537793 C	20130723	CA20042537793	20040930	📄 🔗
CA2814613 AA	20050414	CA20042814613	20040930	📄 🔗
CA2814613 C	20161018	CA20042814613	20040930	📄 🔗



Title: [EN] **RECOMBINANT** VIRUS PRODUCTION USING MAMMALIAN CELLS IN SUSPENSION

Abstract: Source: US2011229971A [EN] The invention generally provides methods for producing **recombinant AAV** viral particles using cells grown in suspension. The invention provides **recombinant AAV** particles for use in methods for delivering genes encoding therapeutic proteins, and methods for using the **recombinant AAV** particles in gene therapy.

Classifications: [Classification Explorer](#)

International (IPC 8-4): A61K48/00 C12N15/86 C12N15/864 C12N15/869 C12N7/00 C12N7/01 C12N7/02 (Advanced/Invention); A61K48/00 C12N15/86 C12N15/864 C12N7/00 C12N7/01 C12N7/02 (Core/Invention)

CPC: C12N15/8645 C12N7/00 A61K48/00 C07K14/005 C12N15/86 C12N27/10/16643 C12N27/10/16662 C12N2750/14122 C12N2750/14143 C12N2800/50

European: C07K14/005 C12N15/86 C12N7/00 K61K48/00 M12N7/10/16643 M12N7/10/16662 M12N750/14122 M12N750/14143 M12N800/50

US: 435/235.1 435/235.100S 435/239 435/239S 435/457 435/457P

Family: [Family Explorer](#)

Publication number	Publication date	Application number	Application date	Links
AU2009209408 AA	20090806	AU20090209408	20090129	  
AU2009209408 BB	20150611	AU20090209408	20090129	  
AU2015202707 AA	20150604	AU20150202707	20150519	  
CA2713338 AA	20090806	CA20092713338	20090129	  
EP2242840 A1	20101027	EP20090706778	20090129	  
EP2242840 A4	20121219	EP20090706778	20090129	  
US2011229971 AA	20110922	US20100812671	20100713	  
US2013244331 AA	20130919	US20120683577	20121121	  
WO09097129 A1	20090806	WO2009US00577	20090129	  

Priority: [Priority Map](#)

AU20090209408	20090129	AU20150202707	20150519	US2008062819P	20080129
WO2009US00577	20090129	US20100812671	20100713	US20120683577	20121121

Probable Assignee: [APPLIED GENETIC TECHNOLOGIES CORP](#) 

Assignee(s): (std); APPLIED GENETIC TECHNOLOGIES C ; APPLIED GENETIC TECHNOLOGIES CORP ; KNOP DAVE ; THOMAS DARBY ; VERES GABOR

Inventor(s): (std); KNOP DAVE ; KNOP DAVID ; THOMAS DARBY ; VERES GABOR

Inventor(s): (std); DARBY THOMAS ; DAVE KNOP ; GABOR VERES

