

Search history

Search labyrinth and rat* (Results 22376)

1:

Search IC=(A01K) (Results 379598)

2:

Search 1 and 2 (Results 147)

3:

Search parkinson (Results 60643)

4:

Search 3 and 4 (Results 17)

5:

Search animal and test (Results 338746)

6:

Search labyrinth (Results 54924)

7:

Search 6 and 7 (Results 641)

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Search IC=(A01K) (Results 379598)

9:

Search 8 and 9 (Results 50)

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Search neurologic* (Results 72743)

12:

Search 10 and 12 (Results 15)

13:

1) Family number: 30101847 (US2002103353A)

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Title: SEQUENCES CHARACTERISTIC OF HYPOXIA-REGULATED GENE TRANSCRIPTION

Abstract: Source: US2002103353A [EN] There are provided polynucleotides which are modulated by hypoxic conditions. The disclosure includes such genes and proteins as well as analogs, salts and functional derivatives of such proteins, and DNA encoding such analogs, and methods of use. Methods for treating the effects of stroke, hypoxia and/or ischemia by regulating such genes or proteins are also disclosed. The presence of hypoxia or a hypoxia-associated pathology may be diagnosed by screening for the presence of at least one polynucleotide having the nucleic acid sequence according to the present invention. Methods of regulating hypoxia associated pathologies are also provided.

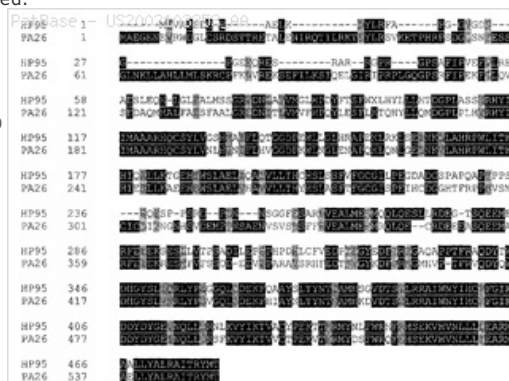
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International (IPC 1-7): A61K A61K31/00 A61K31/7088 A61K31/711 A61K38/00 A61K38/17 A61K38/18 A61K39/395 A61K45/00 A61K48/00 A61P13/12 A61P27/02 A61P35/00 A61P43/00 A61P9/00 A61P9/10 C07H C07H14/00 C07H21/00 C07H21/02 C07H21/04 C07K14/00 C07K14/435 C07K14/47 C07K14/48 C07K16/00 C07K16/18 C07K16/22 C07K16/40 C07K16/46 C07K17/00 C12N15/09 C12N15/11 C12N15/12 C12N15/18 C12N15/85 C12N5/06 C12N5/10 C12N9/02 C12P19/12 C12P21/02 C12P21/08 C12Q1/02 C12Q1/68 G01N33/53 G01N33/56 G01N33/58 G01N33/68 G01N37/00 **CPC:** C12Q2600/158 C12Q1/6883 A61K38/00 A61K48/00 C07K14/47 C07K14/4702 C07K14/4747 C12N9/0004 C12Y114/11004

European: C07K14/47 C07K14/47A1 C07K14/47A33 C12N9/00P C12Q1/68M6 C12Y114/11004 K61K38/00 K61K48/00 M07K203/02 M07K205/00 M07K205/02 M07K207/00 M07K213/02 M07K215/00

US: 424/130.1 424/130.100P 435/320.1 435/320.100S 435/325 435/455 435/455S 435/6 435/6.14 435/6.16 435/69.1 435/69.100S 435/69.91 514/1 514/1.4 514/1.400S 514/12 514/14.9 514/14.900S 514/15.1 514/15.100S 514/15.7



514/15.700S 514/1P 514/44 514/44.00AP 514/44A 530/35 530/350 530/350S 530/387.1 530/387.100S 530/388.1 530/388.100S 530/388.24 530/388.25 530/388.250P 530/389.2 530/391.3 536/23.1 536/23.100S 536/23.2 536/23.200P 536/23.31 536/23.5 536/23.500P 536/24.5 536/24.500P

Family:

Publication number	Publication date	Application number	Application date
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AU199891107 A1	19990308	AU19980091107	19980821
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EP1115733 A1	20010718	EP19990945523	19990827
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JP2009261396 A2	20091112	JP20090142675	20090615
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US2003104973 AA	20030605	US20020091333	20020306
US2003124116 AA	20030703	US20020325878	20021223
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US6555667 BA	20030429	US20000604728	20000628
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US7524935 BB	20090428	US20060440016	20060525
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Priority:

JP20000509728	19980821	US19970056453P	19970821	US19980098158P	19980827
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US20080269722	20081112	WO1998US17297	19980821	WO1998US17296	19980821
WO1999US20394	19990827	WO1999US20393	19990827		

Probable Assignee: QUARK PHARMACEUTICALS INC

Assignee(s): (std): EINAT PAZ ; KOHN KENNEDY I ; FEINSTEIN ELENA ; KOHN KENNETH ; KOHN KENNETH I ; QUARK BIOTECH INC ; SKALITER RAMI ; LURIA SYLVIE ; QUARK PHARMACEUTICALS INC

Inventor(s): (std): EINAT PAZ ; FEINSTEIN ELENA ; REGEV AVIV ; SKALITER RAMI ; RAMI SKALITER ; RALINSKI HAGAR ; PAZ EINAT ; LURIA SYLVIE ; KALINSKI HAGAR ; ELENA FEINSTEIN

Agent(s): FB RICE; FB RICE PTY LTD; BORDEN LADNER GERVAIS LLP; JUDITH ABRAHAM; BROWDY AND NEIMARK PLLC 624 NINTH STREET NW; COOPER AND DUNHAM LLP; BROWDY AND NEIMARK PLLC; JOHN P

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

Abstract: Source: US7273964B [EN] A non-human transgenic animal that is transgenic for an antibody or fragments thereof and having a phenotype reminiscent of human pathology. The human pathology includes neurodegenerative syndromes, muscular atrophy/dystrophy and immune disorders. The animals may be used in a method for early diagnosis of neurodegenerative diseases. The method includes monitoring the occurrence of the tau hyperphosphorylation and/or amyloid deposition in the back or lower limb skeletal muscle sample of a subject. Cells are derivable from the non-human transgenic animal and secreting the transgenic antibody. The cells are used for the selection of molecules pharmacologically effective in neurodegenerative and/or muscular pathologies and/or immune disorders. A non-human transgenic animal may be prepared by providing a first non-human transgenic parent animal for the light chain of an antibody and a second non-human transgenic parent animal for the heavy chain of the same antibody, breeding the two transgenic parent animals and selecting the progeny expressing both the light and the heavy chain.

Classifications:

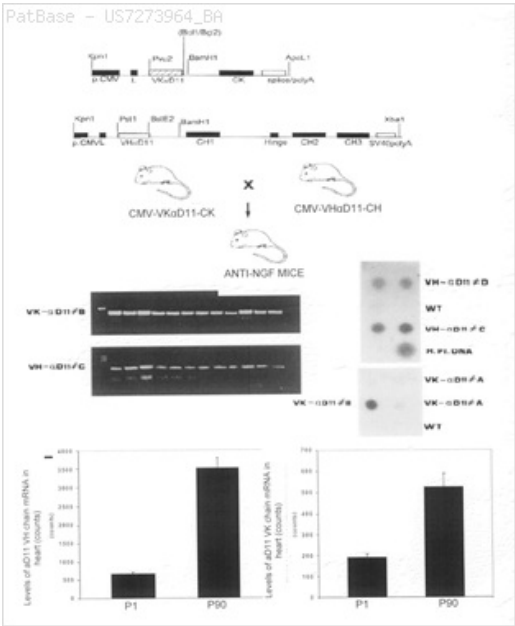
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International (IPC 1-7): A01K67/00 A01K67/02 A01K67/027 A61K38/18 A61K38/22 A61P21/00 A61P21/04 A61P25/00 A61P25/28 C07K16/00 C07K16/22 C12N15/00 C12N5/10 C12Q1/02 G01N33/50 G01N33/68

CPC: C12N15/8509 A01K67/0271 A01K67/0275 A01K2207/15 A01K2217/00 A01K2217/05 A01K2227/105 A01K2267/0312 A01K2267/0318 A61K38/00 C07K16/00 C07K16/22

European: A01K67/027A3A3 A01K67/027B A01K67/027M C07K16/00 C07K16/22 C12N15/85A K01K207/15 K01K217/00 K01K217/05 K01K227/10M K01K267/03A3 K01K267/03A4 K61K38/00 M07K203/02

US: 536/23.53 800/18 800/9



Family:

Publication number	Publication date	Application number	Application date
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Priority:

IT1999MI01783 19990806 IT2000RM00306 20000605 WO2000IT00321 20000728

Probable Assignee: SISSA SCUOLA INTERNAZIONALE SUPERIORE DI STUDI AVANZATI

Assignee(s): (std): CAPSONI SIMONA ; CATTANEO ANTONINO ; RUBERTI FRANCESCA ; S I S S A SCUOLA INTERNAZ SU P ; S I S S A SCUOLA INTERNAZ SUPE ; S I S S A SCUOLA INTERNAZIONALE ; SCUOLA INTERNAZ SUPERIORE DI S ; S I S S A SCUOLA INTERNAZIONALE SUPERIORE DI STUDI ; S I S S A SCUOLA INTERNAZIONALE SU PERIORE DI STUD

Assignee(s): SCUOLA INTERNAZIONALE SUPERIORE DI STUDI AVANZATI ; S I S S A SCUOLA INTERNAZIONALE SU ; S I S S A SCUOLA INTERNAZIONALE SUPERIORE DI STUDI AVANZATI ; SISSA SCUOLA INTERNAZIONALE SUPERIORE DI STUDI AVANZATI ; S I S S A SCUOLA INTERNAZIONALE SU PERIORE DI STUDI AVANZATI ; SISSA SCUOLA INTERNAZIONALE SUPERIORE DI STUDI AVA

Inventor(s): (std): CAPSONI SIMONA ; CATTANEO ANTONINO ; RUBERTI FRANCESCA

Inventor(s): SIMONA CAPSONI ; FRANCESCA RUBERTI ; ANTONINO CATTANEO

Agent(s): FB RICE; FB RICE PTY LTD; DENNISON ASSOCIATES; CAPASSO OLGA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Abstract: Source: US2003159158A [EN] Provided is a method for determining whether an agent is an agonist of the neuron-specific calcium sensor-1 (NCS-1), for consideration of an agonist of NCS-1 as a drug candidate for therapy of a behavioral disorder or for improving learning and/or memory of a subject, said method comprising the steps of: (a) contacting a cell, tissue or non-human animal with an agent to be screened under conditions to permit neuron-specific calcium sensor-1 (NCS-1) activity; and (b) determining NCS-1 activity of said treated cell, tissue or non-human animal, wherein an increase in NCS-1 activity compared with a corresponding control cell, tissue or animal is indicative of an agent which is an agonist of NCS-1.

Classifications:

International (IPC 8-9): A01K67/02 A01K67/027 A01K67/03 A01K67/033 A61K31/00 A61K31/70 A61K31/7088 A61K35/76 A61K38/00 A61K38/16 A61K38/17 A61K39/39 A61K39/395 A61K45/00 A61K48/00 A61P1/00 A61P25/00 A61P25/16 A61P25/18 A61P25/22 A61P25/24 A61P25/28 C12N15/09 C12N5/10 C12Q1/02 C12Q1/68 G01N33/00 G01N33/50 (Advanced/Invention); A01K67/00 A01K67/027 A01K67/033 C12Q1/68 (Advanced/Non-invention); A01K67/00 A01K67/02 A01K67/027 A61K31/00 A61K31/70 A61K31/7088 A61K35/66 A61K38/00 A61K38/16 A61K38/17 A61K39/39 A61K39/395 A61K45/00 A61K48/00 A61P1/00 A61P25/00 C12N15/09 C12N5/10 C12Q1/02 C12Q1/68 G01N33/00 G01N33/50 (Core/Invention); C12Q1/68 (Core/Non-invention)

International (IPC 1-7): A01K67/027 A01K67/033 A61K31/7088 A61K35/76 A61K38/00 A61K38/16 A61K38/17 A61K39/395 A61K45/00 A61K48/00 A61K49/00 A61P1/00 A61P25/00 A61P25/16 A61P25/18 A61P25/22 A61P25/24 A61P25/28 C07K14/435 C07K14/47 C12N15/09 C12N15/12 C12N15/10 C12Q1/02 C12Q1/68 G01N33/00 G01N33/53 G01N33/567 G01N33/68 G01N33/68

CPC: A61K38/16 C12Q1/6886

European: A61K38/16 M12Q1/68M6B

US: 435/7.2 435/72 800/13 800/18 800/3

PatBase - US2003159158_AA

Patent Application Publication Aug. 21, 2005 Sheet 1 of 16 US 2003/0159158 A1

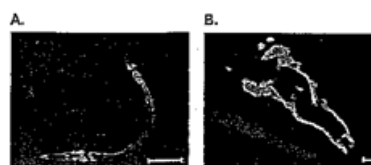


Figure 1

Family:

Publication number	Publication date	Application number	Application date
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EP1250931 A1	20021023	EP20010109536	20010417
FR2824478 A1	20021115	FR20020004797	20020417
FR2824478 B1	20070921	FR20020004797	20020417
GB200208525 A0	20020522	GB20020008525	20020412
GB200507998 A0	20050525	GB20050007998	20050420
GB2377635 A1	20030122	GB20020008525	20020412
GB2377635 B2	20051019	GB20020008525	20020412
GB2411403 A1	20050831	GB20050007998	20050420
JP2003040801 A2	20030213	JP20020114976	20020417
US2003159158 AA	20030821	US20020124334	20020417
US7230155 BB	20070612	US20020124334	20020417

Priority:

EP20010109536 20010417 EP20010125816 20011029

Probable Assignee: HOFFMAN LA ROCHE INC

Assignee(s): (std): HOFFMANN LA ROCHE

Assignee(s): NEF PATRICK ; HOFFMANN LA ROCHE INC ; F HOFFMAN LA ROCHE AG ; F HOFFMANN LA ROCHE AG ; F HOFFMANN LA ROCHE AG BASEL ; F HOFFMANN LA ROCHE AKTIENGESSELLSCHAFT ; HOFFMAN LA ROCHE INC

Inventor(s): (std): NEF PATRICK

Inventor(s): PATRICK NEF

Agent(s): CABINET REGIMBEAU; KIMBERLY J; GEORGE W; PATRICIA S

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

4) Family number: 29787382 (US2007044162A)

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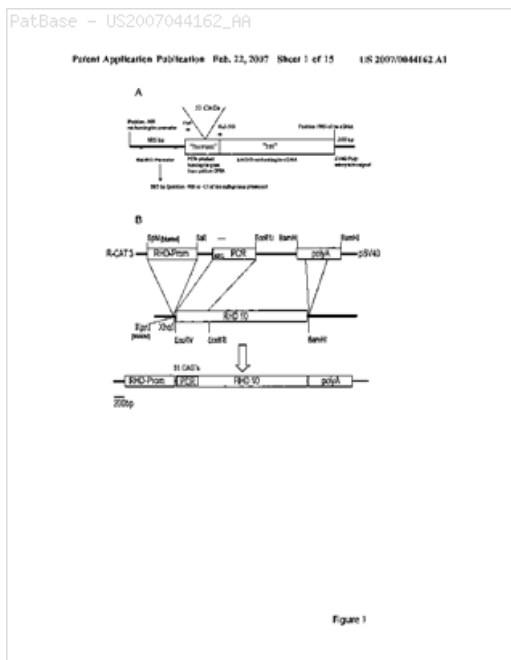
Title: Transgenic rat as animal model for human huntingdon's disease

Abstract: Source: US2007044162A [EN] Huntington's Disease (HD) is an autosomal-dominant inherited progressive neurodegenerative disease from the group of CAG repeat/polyglutamine diseases and is characterized by a triad of psychiatric alterations, dementia and motor dysfunction. On a sub-cellular level, a mutation with extended CAG tri-nucleotide repeats has been identified as the cause of HD. The therapeutic effects of certain substances can be tested on neurotoxicity-induced or transgenic animal models with expanded CAG-repeats. In the present invention, transgenic rats were generated and characterized for human HD. Said rat model for human HD and other diseases of the CNS carries 51 CAG repeats under the control of a rat promoter and has a slow progressive neurological phenotype, closely reflecting human HD syndrome. The comparability of the rat model in relation to human HD is characterized by neuropathological, neuroradiological and neurochemical modifications accompanied by typical behavioral symptoms.

Classifications:

International (IPC 8-9): A01K67/027 A61K48/00 A61K49/00

C07H21/04 C07K14/47 C12N15/00 C12N15/85 C12N5/06 C12N5/08 C12N5/10 (Advanced/Invention);
A01K67/027 C07K14/435 C12N15/85 (Core/Invention)
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US: 424/93.21 424/93.210S 435/320.1 435/320.100S 435/353 435/353S 435/366 435/366S 536/23.2 536/23.200S 800/14 800/14P



Family:

Publication number	Publication date	Application number	Application date
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Priority:

DE20021021344 20020514 DE20031093086 20030514 WO2003DE001546 20030514
WO2003DE01546 20030514

Probable Assignee: HANNOVER MED HOCHSCHULE

Assignee(s): (std): RIESS OLAF ; VON HOERSTEN STEPHAN ; VON HORSTEN STEPHAN ; HANNOVER MED HOCHSCHULE

Assignee(s): MEDIZINISCHE HOCHSCHULE HANNOVER ; VON HORSTEN STEPHEN

Inventor(s): (std): HOERSTEN STEPHAN VON ; RIESS OLAF ; VON HOERSTEN STEPHAN ; VON HORSTEN STEPHAN ; HORSTEN STEPHAN VON

Inventor(s): STEPHAN VON HORSTEN ; OLAF RIESS

Agent(s): FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; HICKS AND ASSOCIATES; WILLIAM COLLARD COLLARD AND ROE PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

5) Family number: 32452774 (US2008305106A)

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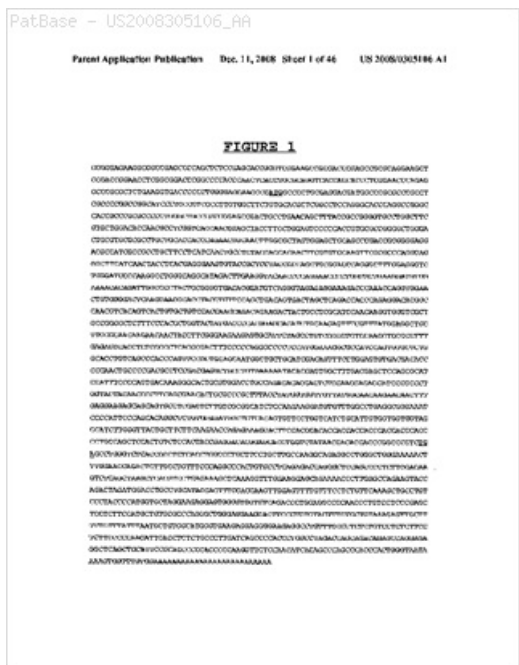
Title: NOVEL GENE DISRUPTIONS, COMPOSITION AND METHODS RELATING THERETO

Abstract: Source: US2008305106A [EN] The present invention relates to transgenic animals, as well as compositions and methods relating to the characterization of gene function. Specifically, the present invention provides transgenic mice comprising disruptions in PRO256, PRO34421, PRO334, PRO770, PRO983, PRO1009, PRO1107, PRO1158, PRO1250, PRO1317, PRO4334, PRO4395, PRO49192, PRO9799, PRO21175, PRO19837, PRO21331, PRO23949, PRO697 or PRO1480 genes. Such in vivo studies and characterizations may provide valuable identification and discovery of therapeutics and/or treatments useful in the prevention, amelioration or correction of diseases or dysfunctions associated with gene disruptions such as neurological disorders; cardiovascular, endothelial or angiogenic disorders; eye abnormalities; immunological disorders; oncological disorders; bone metabolic abnormalities or disorders; lipid metabolic disorders; or developmental abnormalities.

Classifications:

International (ipc 8-9): A01K67/027 A61K38/00 A61K39/395 A61K45/00 A61K49/00 A61P1/04 A61P11/00 A61P11/06 A61P13/12 A61P17/00 A61P17/02 A61P19/00 A61P19/02 A61P19/08 A61P19/10 A61P25/00 A61P27/00 A61P27/06 A61P27/12 A61P29/00 A61P3/00 A61P3/06 A61P3/10 A61P31/12 A61P35/00 A61P37/00 A61P37/06 A61P37/08 A61P9/00 A61P9/10 A61P9/12 C07K14/47 C07K14/705 C07K14/71 C07K14/715 C07K14/72 C07K14/78 C07K14/81 C07K16/18 C07K16/28 C12N15/12 C12N15/15 C12N15/24 C12N15/52 C12N15/55 C12N15/57 C12N15/85 C12N5/00 C12N5/06 C12N5/10 C12N9/00 C12N9/16 C12N9/64 C12Q1/02 C12Q1/68 G01N33/15 G01N33/48 G01N33/50 (Advanced/Invention); C12N15/09 (Advanced/Non-invention); A01K67/027 A61K45/00 A61K49/00 A61P1/00 A61P11/00 A61P13/00 A61P17/00 A61P19/00 A61P25/00 A61P27/00 A61P29/00 A61P3/00 A61P31/00 A61P35/00 A61P37/00 A61P9/00 C07K14/435 C07K14/81 C07K16/18 C12N15/12 C12N15/15 C12N15/19 C12N15/52

C12N15/55 C12N15/57 C12N15/85 C12N5/00 C12N5/10 C12N9/00 C12N9/16 C12N9/64 C12Q1/02 C12Q1/68 G01N33/15 G01N33/48 G01N33/50 (Core/Invention); C12N15/09 (Core/Non-invention); A01K A61K C12N G01N (Subclass/Invention)
International (IPC 1-7): A01K67/027
CPC: A01K67/0275 A01K67/0278 A01K2217/05 A01K2217/072 A01K2217/075 A01K2227/105 A01K2267/03 A61K49/0008 C07K14/4703 C07K14/705 C12N15/8509
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Publication number	Publication date	Application number	Application date
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Priority:

US20040571347P 20040512 US20050568901 20050412 WO2005US12478 20050412

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Assignee(s): (std): BRENNAN JANE ; DE SAUVAGE FREDERIC J ; DESAUVAGE FREDERIC ; EDWARDS JOEL ; FILVAROFF ELLEN ; GENENTECH INC ; LEXICON GENETICS INC ; GREWAL IQBAL ; HUANG WENHU ; IRVING BRIAN ; JUNUTULA JAGATH REDDY ; KIRCHHOFFER DANIEL J ; MONTGOMERY CHUCK ; PAYNE BOBBY JOE ; PEALE JR FRANKLIN ; PHILLIPS HEIDI ; QIAN NI NANCY ; SHI ZHENG ZHENG ; SPARKS MARY JEAN ; STALA JOY ; TANG TRACY TZU LING ; VOGEL PETER ; WICKRAMASINGHE DINELI ; YE WEILAN ; PHILLIPS HEIDE ; TANG TRACY ; KIRCHHOFFER DANIEL ; IRVING BRYAN ; PEALE FRANKLIN

Assignee(s): MONTGOMERY CHARLES ; PEALE JR ; PEALE FRANKLIN JR ; LEXICON PHARMACEUTICALS INC

Inventor(s): (std): BRYAN IRVING ; CHARLES MONTGOMERY ; DE SAUVAGE FREDERIC J ; DINELI WICKRAMASINGHE ; ELLEN FILVAROFF ; FRANKLIN PEALE JR ; FREDERIC DESAUVAGE ; HEIDI PHILLIPS ; IQBAL GREWAL ; IRVING BRYAN ; JANE BRENNAN ; JEAN SPARKS MARY ; JOE PAYNE BOBBY ; JOEL EDWARDS ; JOY STALA ; KIRCHHOFFER DANIEL ; KIRCHHOFFER DANIEL J ; PETER VOGEL ; PHILLIPS HEIDE ; QIAN NI NANCY ; REDDY JUNUTULA JAGATH ; SHI ZHENG ZHENG ; SPARKS MARY JEAN ; STALA JOY ; TANG TRACY ; TANG TRACY TZU LING ; TZU LING TANG TRACY ; VOGEL PETER ; WEILAN YE ; WENHU HUANG ; WICKRAMASINGHE DINELI ; YE WEILAN ; ZHENG ZHENG SHI ; PHILLIPS HEIDI ; PEALE JR FRANKLIN ; PAYNE BOBBY JOE ; MONTGOMERY CHUCK ; KIRCHHOFFER DANIEL J ; JUNUTULA JAGATH REDDY ; IRVING BRIAN ; HUANG WENHU ; GREWAL IQBAL ; FILVAROFF ELLEN ; EDWARDS JOEL ; DESAUVAGE FREDERIC ; BRENNAN JANE ; MONTGOMERY CHARLES A ; PEALE FRANKLIN ; PEALE FRANKLIN JR ; NANCY QIAN NI

Inventor(s): NI NANCY QIAN ; PEALE JR ; TRACY TZU LING TANG ; MARY JEAN SPARKS ; MONTGOMERY CHARLES ; JAGATH REDDY JUNUTULA ; CHUCK MONTGOMERY ; DANIEL J KIRCHHOFFER ; BOBBY JOE PAYNE ; BRIAN IRVING

Agent(s): GRIFFITH HACK; SMART AND BIGGAR; GENENTECH INC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

6) Family number: 42150717 (US2010138940A)

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Title: TRANSGENIC PIG AS A MODEL OF ALZHEIMER'S DISEASE

Abstract: Source: US2010138940A [EN] The present invention relates to a modified pig as a model for studying Alzheimer's disease. The modified pig model displays one or more phenotypes associated with Alzheimer's disease. Disclosed is also a modified pig comprising a modified human and/or porcine APP gene, and/or PS1 gene, and/or a transcriptional and/or translational product or part thereof. The invention further relates to methods for producing the modified pig; and methods for evaluating the effect of a therapeutical treatment of Alzheimer's disease; methods for screening the efficacy of a pharmaceutical composition; and a method for treatment of a human being suffering from Alzheimer's disease are disclosed.

Classifications:

International (IPC 8-9): A01K67/00 A01K67/027 C12N15/00 C12N15/85 C12N5/10 G01N33/00 (Advanced/Invention); A01K67/00 C12N15/00 C12N15/85 C12N5/10

[illegible]

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TI TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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FR2980667 A1	20130405	FR20110058927	20111004
FR2980667 B1	20141017	FR20110058927	20111004

Priority:

FR20110058927 20111004

Probable Assignee: UNIV HENRI POINCARE NANCY I

Assignee(s): (std): UNIV HENRI POINCARE NANCY I

Assignee(s): UNIVERSITE HENRI POINCARE NANCY I ; HENRI POINCARE NANCY I UNIV

Inventor(s): (std): BECK BERNARD ; POURIE GREGORY

Inventor(s): BERNARD BECK ; GREGORY POURIE

Agent(s): CABINET MICHEL POUPON; CABINET BLEGER RHEIN POUPON

8) Family number: 56203485 (US2014170753A)

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Title: CRISPR-CAS SYSTEMS AND METHODS FOR ALTERING EXPRESSION OF GENE PRODUCTS

Abstract: Source: US2014170753A [EN] The invention provides for systems, methods, and compositions for altering expression of target gene sequences and related gene products. Provided are vectors and vector systems, some of which encode one or more components of a CRISPR complex, as well as methods for the design and use of such vectors. Also provided are methods of directing CRISPR complex formation in eukaryotic cells and methods for utilizing the CRISPR-Cas system.

Classifications:

International (IPC 8-9): A01H1/00 A01K67/027 A61K31/7088 A61K31/7105 A61K31/713 A61K35/76 A61K35/761 A61K35/763 A61K38/00 A61K38/43 A61K38/46 A61K48/00 A61K9/127 A61K9/51 A61P1/00 A61P1/16 A61P11/00 A61P13/00 A61P17/00 A61P19/00 A61P21/00 A61P25/04 A61P25/16 A61P25/28 A61P31/00 A61P43/00 A61P9/00 C07H21/00 C07K14/315 C07K19/00 C12N C12N1/15 C12N1/19 C12N1/21 C12N15/00 C12N15/01 C12N15/09 C12N15/10 C12N15/11 C12N15/113 C12N15/52 C12N15/63 C12N15/70 C12N15/74 C12N15/79 C12N15/82 C12N15/85 C12N15/86 C12N15/873 C12N15/90 C12N5/00 C12N5/071 C12N5/10 C12N7/00 C12N7/01 C12N9/16 C12N9/22 C12N9/96 C12Q1/02 C12Q1/68 C40B40/08 G06F19/10 G06F19/18 G06F19/22 (Advanced/Invention); A01H3/00 A61K38/43 A61K38/46 A61K38/47 C07H21/02 C07H21/04 C12N1/20 C12N15/00 C12N15/09 C12N15/10 C12N15/52 C12N15/79 C12N15/82 C12N9/14 C12N9/22 C12N9/52 C12P21/04 C12Q1/68 (Advanced/Non-invention); C12N (Subclass/Invention)

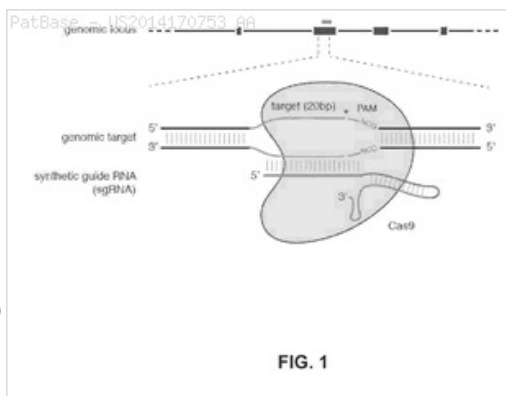
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CPC: C12N9/96 C12N15/635 C12N15/102 G06F19/18 G06F19/22 C12N15/8213 C12N15/1034 A61K38/43 A61K38/46 A61K38/47 C12N9/14 C12N9/52 C12N15/00 C12Q1/68 C12N15/74 C12N2800/101 C12N15/70 C12N2320/11 C12N2800/80 A01K2267/0331 C12N2800/30 C12N2800/90 C12N2800/10 C12N2810/50 C12N15/902 C12N9/16 A01K67/0271 A01K2207/05 A01K2207/12 A01K2217/052 A01K2217/077 A01K2267/0312 A01K2267/0362 A61K48/00 C12N2710/24144 C12N2740/15043 A61K31/7088 C12N15/82 C12N2310/122 A61K38/465 C12N15/8216 C12N7/00 C12N15/01 C12N2310/3519 C12Q1/6806 C12N15/1089 C12N15/79 C12N2320/30 C07K2319/09 A01K2267/03 C12N15/746 A61K48/0091 A61K48/005 A61K48/0058 C12N2750/14152 C12N2750/14132 C12Y301/00 C12N2740/15041 C12N2750/14141 C12N15/1082 C12N15/63 C12N15/52 A01K2217/072 C12N15/90 C12N15/1093 A01K2217/07 A01K2217/05 A01K67/0275 A01K67/0278 A01K2227/105 C12N2800/22 C12N15/111 C12N15/8509 C12N15/113 C12N15/85 C12N2310/531 C12N2810/10 C12N9/22 C12N15/86 C12N15/907 C12N2750/14143 C12N2310/10 C12N2310/20

US: 424/93.21 424/93.7 424/94.1 424/94.6 424/94.61 435/188 435/195 435/196 435/199 435/220 435/252.33 435/254.2 435/287.2 435/320.1 435/325 435/348 435/353 435/354 435/357 435/363 435/364 435/365 435/366 435/367 435/369 435/370 435/371 435/372.3 435/440 435/455 435/456 435/457 435/462 435/463 435/468 435/471 435/6.1 435/6.12 435/6.13 435/6.18 435/91.4 506/16 506/2 514/44R 536/22.1 536/23.1 536/23.2 536/23.7 536/24.1 702/20 800/13 800/14 800/18 800/21 800/278 800/298

Family:

Publication number	Publication date	Application number	Application date
AU2013359123 AA	20140619	AU20130359123	20131212
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Probable Assignee: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Assignee(s): (std): BROAD INST INC THE ; COX DAVID BENJAMIN TURITZ ; HSU PATRICK ; LIN SHAULIANG ; JIANG WENYAN ; CONG LE ; HEIDENREICH MATTHIAS ; LI YINQING ; HABIB NAOMI ; HARVARD COLLEGE ; LIN SHUAILIANG ; LIN CHIE YU ; DOENCH JOHN ; EBERT BENJAMIN LEVINE ; HEDENREICH MATTHIAS ; HECKL DIRK ; MASSACHUSETTS INST OF TECHNOLOGY ; ASSOCIATION PRESIDENT AND RESEARCH FELLOW AT HARVARD UNIV ; BIEWENER HARTENIAN ELLA NICOLE ; BIKARD DAVID OLIVIER ; BOARD INST INC ; BROAD INST INC ; BRIGHAM WOMEN S HOSPITAL INC ; BRIGHAM AND WOMENS HOSPITAL ; MASSACHUSETTS INST TECHNOLOGY ; MARRAFFINI LUCIANO ; ZHANG FENG ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; RAN FEI ; SANJANA NEVILLE ESPI ; PLATT RANDALL JEFFREY ; ROCKEFELLER UNIV ; SWIECH LUKASZ ; SHALEM OPHIR ; MASSACHUSETTS INST OF TECHNOLOGY ; SCOTT DAVID ARTHUR ; WEINSTEIN JOSHUA ASHER ; UNIV ROCKEFELLER ; ROOT DAVID ; MASSACHUSETTS INST OF TECH

Assignee(s): ROCKFELLER UNIV ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE BOSTON ; MASSACHUSETTS INST OF TECHNOLOGY CAMBRIDGE ; MIT MASSACHUSETTS INST OF TECHNOLOGY CAMBRIDGE ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE CAMBRIDGE ; PRESIDENTS AND FELLOWS OF HARVARD COLLEGE ; MASSACHUSETTS INSTITUTE OF TECHNOLOGY ; ROCKEFELLER UNIV NEW YORK ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; BROAD INSTITUTE INC THE ; BROAD INST INC CAMBRIDGE ; BRIGHAM AND WOMEN S HOSPITAL INC ; BROAD INST ; MASSACHUSETTS INST OF TECHNOLOGY

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Inventor(s): ZHANG FENG CAMBRIDGE ; SHALEM OPHIR ALBANY ; RAN FEI BOSTON ; SANJANA NEVILLE ESPI CAMBRIDGE ; MARRAFFINI LUCIANO NEW YORK ; MATTHIAS HEIDEN REICH ; PLATT RANDALL JEFFREY CAMBRIDGE ; RAN FE ; LIN SHAULIANG CAMBRIDGE ; JIANG WENYAN WHITESTONE ; CONG LE

CAMBRIDGE ; COX DAVID BENJAMIN TURITZ CAMBRIDGE ; BIKARD DAVID OLIVIER NEW YORK ; HSU PATRICK CAMBRIDGE
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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

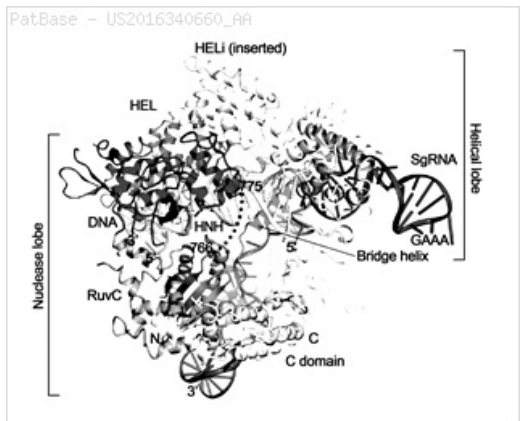
9) Family number: 59548369 (US2016340660A) © PatBase

Title: CRISPR-CAS SYSTEMS, CRYSTAL STRUCTURE AND USES THEREOF

Abstract: Source: US2016340660A [EN] The invention provides for systems, methods, and compositions for altering expression of target gene sequences and related gene products. Provided are structural information on the Cas protein of the CRISPR-Cas system, use of this information in generating modified components of the CRISPR complex, vectors and vector systems which encode one or more components or modified components of a CRISPR complex, as well as methods for the design and use of such vectors and components. Also provided are methods of directing CRISPR complex formation in eukaryotic cells and methods for utilizing the CRISPR-Cas system.

Classifications:

International (IPC 8-9): A01H5/00 A01K67/027 A61K31/7105 A61K35/76 A61K38/46 A61K48/00 A61P43/00 C07K14/47 C07K19/00 C12N1/13 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N15/10 C12N15/113 C12N15/115 C12N15/32 C12N15/52 C12N15/62 C12N15/63 C12N15/79 C12N15/90 C12N5/10 C12N9/16 C12N9/22 C12Q1/68 G06F19/16 (Advanced/Invention)
CPC: C12N2310/3519 C12N2310/10 C07K2319/09 C07K2319/095 C07K2319/20 C07K2319/70 C07K2299/00 G06F19/16 C12Y301/00 C12N15/907 C12N15/115 C12N15/902 C12Q1/6876 A61K38/465 C12N15/113 C12N2310/16 A61K48/005 A61K48/00 C12N2310/20 C12N15/90 C12Q2521/101 C12Q2522/101 C12N15/10 C12N9/22 C12N15/63 C12N15/79 Y02A50/478
US: 424/94.6 435/199 435/463



Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: BROAD INST INC

Assignee(s): (std): BROAD INST INC ; HARVARD COLLEGE ; MASSACHUSETTS INST OF TECH ; UNIV TOKYO ; MASSACHUSETTS INST TECHNOLOGY ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Assignee(s): ZETSCHE BERND ; ZHANG FENG ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; OF TOKYO UNIV ; MASSACHUSETTS INST OF TECHNOLOGY ; BROAD INST

Inventor(s): (std): BRIGHAM MARK ; HSU PATRICK ; ISHITANI RYUICHIRO ; KONERMANN SILVANA ; LIN CHIE YU ; NISHIMASU HIROSHI ; NUREKI OSAMU ; RAN FEI ; TREVINO ALEXANDRO ; ZETSCHE BERND ; ZHANG FENG

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; GOWLING WLG CANADA LLP; MBM

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 59548363 (US2016354487A)

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Title: COMPOSITIONS AND METHODS OF USE OF CRISPR-CAS SYSTEMS IN NUCLEOTIDE REPEAT DISORDERS

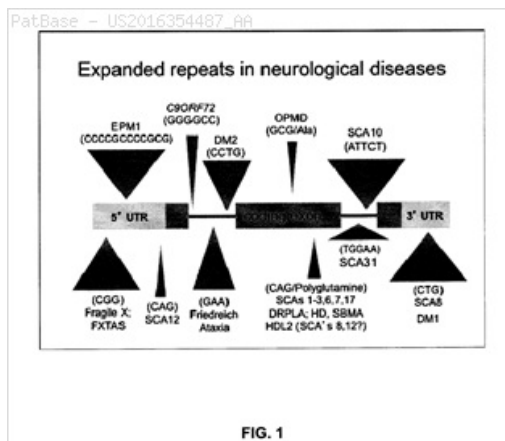
Abstract: Source: US2016354487A [EN] The invention provides for delivery, engineering and optimization of systems, methods, and compositions for manipulation of sequences and/or activities of target sequences. Provided are delivery systems and tissues or organ which are targeted as sites for delivery. Also provided are vectors and vector systems some of which encode one or more components of a SIN CRISPR complex, as well as methods for the design and use of such vectors. Also provided are methods of directing SIN CRISPR complex formation in eukaryotic cells to ensure enhanced specificity for target recognition and avoidance of toxicity and to edit or modify a target site in a genomic locus of interest to alter or improve the status of a disease or a condition.

Classifications:

International (IPC 8-9): A01K67/027 A61K31/7088 A61K31/7105 A61K31/713 A61K35/76 A61K38/43 A61K38/46 A61K48/00 A61K9/08 A61K9/127 A61K9/16 A61P21/02 A61P21/04 A61P25/00 A61P25/14 A61P25/28 C12N C12N15/09 C12N15/10 C12N15/113 C12N15/63 C12N15/85 C12N15/86 C12N15/90 C12N5/10 C12N7/00 C12N9/00 C12N9/16 C12N9/22 (Advanced/Invention); C12N (Subclass/Invention)

International (IPC 1-7): C12N15/10 C12N15/85 C12N9/22 **CPC:** C12N15/1082 C12N15/102 B82Y5/00 A01K67/0276 A01K2217/075 A01K2227/105 A01K2267/0318 C12N15/907 A61K48/005 C12N15/113 C12N15/86 A61K38/465 C12N2740/15043 C12Y301/00 C12N7/00 A61K31/713 C12N9/22 C12N15/63 C12N2750/14143

US: 424/94.6 514/44R



Family:

Publication number	Publication date	Application number	Application date
AU2014362245 AA	20150618	AU20140362245	20141212
AU2014362248 AA	20150618	AU20140362248	20141212
BR112016013520 A2	20171003	BR20161113520	20141212
BR112016013547 A2	20171003	BR20161113547	20141212
CA2932436 AA	20160601	CA20142932436	20141212
CA2932472 AA	20160601	CA20142932472	20141212
CN106029880 A	20161012	CN201480072798	20141212
CN106103705 A	20161109	CN201480072803	20141212
EP3080257 A1	20161019	EP20140821429	20141212
EP3080258 A1	20161019	EP20140821430	20141212
IL246116 A0	20160731	IL20140246116	20141212
IL246118 A0	20160731	IL20140246118	20141212
IN201617023220 A	20160831	IN201617023220	20160706
IN201617023223 A	20160831	IN201617023223	20160706
JP2017501151 T2	20170112	JP20160539142T	20141212
JP2017501699 T2	20170119	JP20160539210T	20141212
KR20160097331 A	20160817	KR20167018623	20141212
KR20160097338 A	20160817	KR20167018646	20141212
MX2016007325 A1	20170719	MX20160007325	20141212
MX2016007326 A1	20170213	MX20160007326	20141212
RU2016128069 A	20180117	RU20160128069	20141212
RU2016128073 A	20180117	RU20160128073	20141212
US2016354487 AA	20161208	US20160179941	20160610
US2016355796 AA	20161208	US20160179711	20160610
WO15089351 A1	20150618	WO2014US69897	20141212
WO15089354 A1	20150618	WO2014US69902	20141212

Priority:

US20130915150P 20131212 US20140010879P 20140611 US20140010888P 20140611
WO2014US69897 20141212 US20160179941 20160610 US20160179711 20160610
WO2014US69902 20141212

Probable Assignee: OF IOWA RESEARCH FOUNDATION UNIV

Assignee(s): (std): BROAD INST INC ; MASSACHUSETTS INST OF TECHNOLOGY ; OF IOWA RESEARCH FOUNDATION UNIV ; UNIV IOWA RES FOUND ; MASSACHUSETTS INST TECHNOLOGY ; UNIV OF IOWA RES FOUND

Assignee(s): NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; ZHANG FENG ; RODRIGUEZ EDGARDO ; DAVIDSON BEVERLY ; IOWA RESEARCH FOUNDATION UNIV ; LIN CHIE YU

Inventor(s): (std): ZHANG FENG ; RODRIGUEZ EDGARDO ; LIN CHIE YU ; FENG ZHANG ; EDGARDO RODRIGUEZ ; DAVIDSON BEVERLY ; CHIE YU LIN ; BEVERLY DAVIDSON

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; GOWLING WLG CANADA LLP; MBM INTELLECTUAL PROPERTY LAW LLP; VO; KOWALSKI THOMAS J ET AL; LU DEBORAH L ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR

CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID
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MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG
SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

11) Family number: 61747990 (US2017175144A)

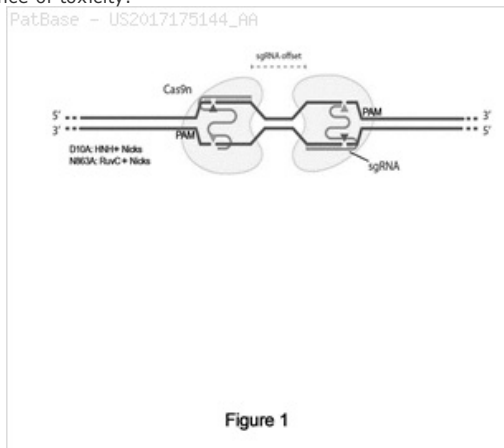
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Title: GENOME EDITING USING CAS9 NICKASES

Abstract: Source: US2017175144A [EN] The invention provides for delivery, engineering and optimization of systems, methods, and compositions for manipulation of sequences and/or activities of target sequences. Provided are vectors and vector systems, some of which encode one or more components of a CRISPR complex, as well as methods for the design and use of such vectors. Also provided are methods of directing CRISPR complex formation in prokaryotic and eukaryotic cells to ensure enhanced specificity for target recognition and avoidance of toxicity.

Classifications:

International (IPC 8-9): A01K67/033 C12N15/10 C12N15/63
C12N15/82 C12N15/85 C12N15/86 C12N15/90 C12N9/22
C12N9/96 (Advanced/Invention)
CPC: C12N15/102 C12N15/907 A01K67/0333 C12N9/96
C12N15/8509 C12N15/8213 C12N15/86 A01K2217/075
A01K2217/072 C12N2810/10 C12N2800/22 A61K48/00 C12N9/22
C12N2830/008



Family:

Publication number	Publication date	Application number	Application date
EP3180426 A1	20170621	EP20150756300	20150817
US2017175144 AA	20170622	US20170436396	20170217
WO16028682 A1	20160225	WO2015US45504	20150817

Priority:

US20140038358P 20140817 US20150180699P 20150617 WO2015US45504 20150817
US20170436396 20170217

Probable Assignee: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Assignee(s): (std): BROAD INST INC ; HARVARD COLLEGE ; MASSACHUSETTS INST TECHNOLOGY

Assignee(s): PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; MASSACHUSETTS INST OF TECHNOLOGY

Inventor(s): (std): RAN FEI ; ZHANG FENG

Agent(s): CABINET PLASSERAUD; CASSON LAWRENCE P ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID
IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN
MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG
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12) Family number: 62660177 (US2017306335A)

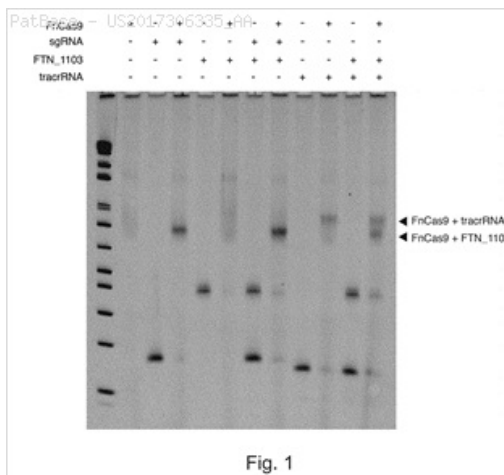
© PatBase

Title: RNA-TARGETING SYSTEM

Abstract: Source: US2017306335A [EN] The invention provides for systems, methods, and compositions for targeting RNA. In particular, the invention provides a non-naturally occurring or engineered RNA-targeting system comprising an RNA-targeting Cas protein and at least one RNA-targeting guide RNA, wherein said RNA-targeting guide RNA is capable of hybridizing with a target RNA in a cell.

Classifications:

International (IPC 8-9): A01K67/027 A61K48/00 C12N15/11
C12N15/113 C12N15/115 C12N15/63 C12N15/86 C12N9/22
C12Q1/68 (Advanced/Invention);
C12N2310/20 (Advanced/Non-invention)
CPC: C12N2310/10 C12N2330/51 C12Y301/21004 C12N15/115
C12N9/22 C12N15/11 C12N15/86 C07K2319/09 C12N2310/16
C12N2800/22 C12N15/63 C12N15/113 A01K67/0275 C12N15/635
A61K48/005 C12Q1/6876 A01K2217/05 A01K2207/12 A01K2227/105
A01K2267/03 C07K2319/00 C12N2310/3519 C12Q2600/178
C12N15/111 C12N2310/20



Family:

Publication number	Publication date	Application number	Application date
EP3230452 A1	20171018	EP20150819997	20151211
US2017306335 AA	20171026	US20170632067	20170623
US2017321214 AA	20171109	US20170620391	20170612
WO16094872 A1	20160616	WO2015US65393	20151211
WO16094872 A9	20160818	WO2015US65393	20151211
WO16106236 A1	20160630	WO2015US67151	20151221

Priority:

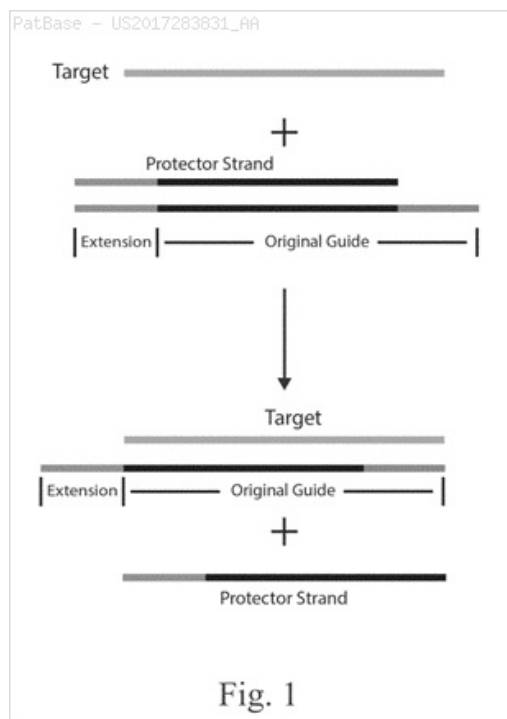
US20140091462P 20141212	US20140096324P 20141223	US20150180681P 20150617
US20140098059P 20141230	US20150181641P 20150618	US20150181667P 20150618
US20150237496P 20151005	WO2015US65393 20151211	US20170632067 20170623
WO2015US67151 20151221	US20170620391 20170612	

Probable Assignee: BROAD INST INC**Assignee(s):** (std): BROAD INST INC ; HARVARD COLLEGE ; MASSACHUSETTS INST OF TECH ; MASSACHUSETTS INST TECHNOLOGY**Assignee(s):** PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; MASSACHUSETTS INST OF TECHNOLOGY**Inventor(s):** (std): DAHLMAN JAMES ; GOOTENBERG JONATHAN ; GOOTENBERG JONATHAN S ; HSU PATRICK ; SMARGON AARON ; ZHANG FENG ; KONERMANN SILVANA ; ABUDAYYEH OMAR O**Agent(s):** WILLIAMS GARETH OWEN; KOWALSKI THOMAS J ET AL**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**13) Family number: 62660172 (US2017283831A)**

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Title: PROTECTED GUIDE RNAS (PGRNAS)

Abstract: Source: US2017283831A [EN] The invention provides for systems, methods, and compositions for altering expression of target gene sequences and related gene products. Provided are structural information on the Cas protein of the CRISPR-Cas system, use of this information in generating modified components of the CRISPR complex, vectors and vector systems which encode one or more components or modified components of a CRISPR complex, as well as methods for the design and use of such vectors and components. Also provided are methods of directing CRISPR complex formation in eukaryotic cells and methods for utilizing the CRISPR-Cas system. In particular the present invention comprehends optimized functional CRISPR-Cas enzyme systems, wherein the guide sequence is modified by secondary structure to increase the specificity of the CRISPR-Cas system and whereby the secondary structure can protect against exonuclease activity and allow for 5' additions to the guide sequence.

Classifications:**International (IPC 8-9):** A01K67/027 C07K14/47 C12N15/11 C12N15/90 C12N9/22 C12N9/96 (Advanced/Invention)**CPC:** C12N15/907 C12N9/22 C12N9/96 C12N15/11 C12Y301/21004 C07K14/4702 A01K67/0275 A01K2217/07 A01K2227/105 C12N15/111 C12N2310/20**Family:**

Publication number	Publication date	Application number	Application date
EP3230451 A1	20171018	EP20150819996	20151211
US2017283831 AA	20171005	US20170620098	20170612
WO16094867 A1	20160616	WO2015US65385	20151211

Priority:

US20140091455P 20141212	US20140096708P 20141224	US20150180709P 20150617
US20170620098 20170612	WO2015US65385 20151211	

Probable Assignee: MASSACHUSETTS INST OF TECHNOLOGY

Assignee(s): (std): BROAD INST INC ; HARVARD COLLEGE ; MASSACHUSETTS INST TECHNOLOGY

Assignee(s): PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; MASSACHUSETTS INST OF TECHNOLOGY

Inventor(s): (std): ABUDAYYEH OMAR O ; DAHLMAN JAMES E ; HSU PATRICK ; SCOTT DAVID A ; ZHANG FENG

Agent(s): WILLIAMS GARETH OWEN; KOWALSKI THOMAS J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

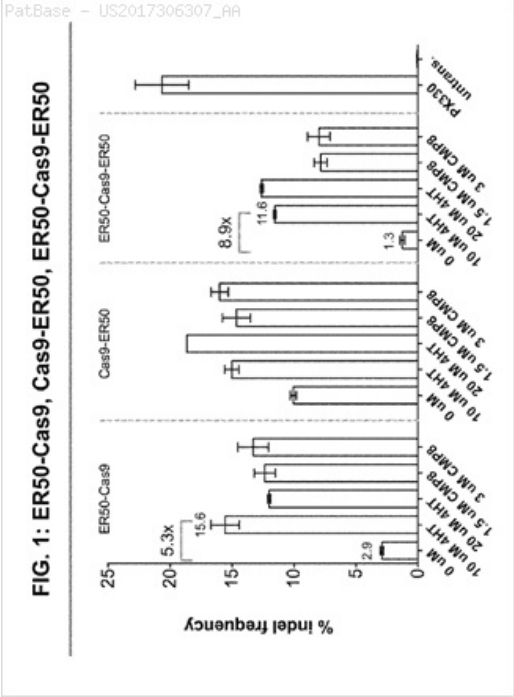
14) Family number: 62803947 (US2017306307A) © PatBase

Title: CRISPR HAVING OR ASSOCIATED WITH DESTABILIZATION DOMAINS

Abstract: Source: US2017306307A [EN] The disclosure includes non-naturally occurring or engineered CRISPR Cas9, each associated with at least one destabilization domain (DD), along with compositions, systems and complexes involving the DD-CRISPR Cas9, nucleic acid molecules and vectors encoding the same, delivery systems involving the same, uses therefor.

Classifications:

International (IPC 8-9): A01K67/027 A61K48/00 C07K14/72 C12N15/09 C12N15/10 C12N15/11 C12N15/55 C12N15/63 C12N15/85 C12N15/90 C12N5/10 C12N9/06 C12N9/22 (Advanced/Invention)
CPC: C12Y105/01003 C12N15/907 C12N9/003 C07K14/721 A61K48/005 A01K67/0275 A01K2207/10 A01K2227/105 A01K2217/05 C07K2319/00 C12N9/22 C07K2319/095 C12N15/102



Family:

Publication number	Publication date	Application number	Application date
AU2015369725 AA	20160630	AU20150369725	20151221
CA2970370 AA	20170608	CA20152970370	20151221
EP3237615 A1	20171101	EP20150831022	20151221
US2017306307 AA	20171026	US20170633126	20170626
WO16106244 A1	20160630	WO2015US67177	20151221

Priority:

US20140096656P 20141224 US20150181151P 20150617 WO2015US67177 20151221
US20170633126 20170626

Probable Assignee: BROAD INST INC

Assignee(s): (std): BROAD INST INC ; HARVARD COLLEGE ; MASSACHUSETTS INST TECHNOLOGY

Assignee(s): ZETSCHE BERND ; ZHANG FENG ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; MASSACHUSETTS INST OF TECHNOLOGY ; PRESIDENT AND FELLOWS OF HARVARD COLLEGE ; CHOUDHARY AMIT

Inventor(s): (std): CHOUDHARY AMIT ; ZETSCHE BERND ; ZHANG FENG

Agent(s): FPA PATENT ATTORNEYS PTY LTD; GOWLING WLG CANADA LLP; MBM INTELLECTUAL PROPERTY LAW LLP; ICELY DOMINIC MICHAEL; KOWALSKI THOMAS J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

15) Family number: 65371847 (WO17055930A1) © PatBase

Title: TRANSGENIC MOUSE MODEL OF NEUROINFLAMMATORY DISORDERS OF MOTORIAL FUNCTION

Abstract: A subject-matter of the present invention is a transgenic mouse model of neuroinflammatory disorders of motor function, in particular of demyelinating diseases, like multiple sclerosis, wherein the transgenic mouse is hemizygous and overexpresses a stabilized form of human beta-catenin from a single Rosa26 allele. A further subject-matter of the invention

is the use of said model in the evaluation of potential pharmacological agents for the treatment of these pathologies, as well as diagnostic methods.

Classifications:

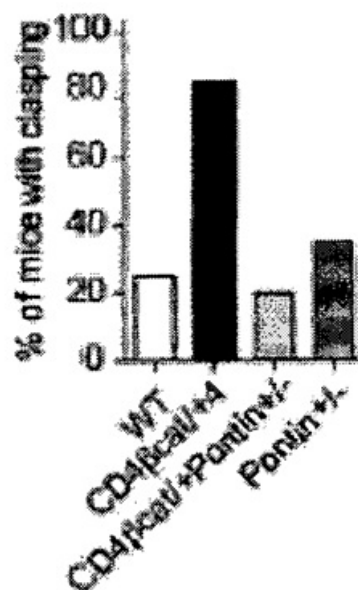
International (IPC 8-9): A01K67/027 (Advanced/Invention)

CPC: A01K67/0278 A01K2217/072 A01K2217/15 A01K2217/206
A01K2227/105 A01K2267/0356 A01K2267/0368

PatBase - WO17055930_A1

Figure 7

B



Family:

Publication number	Publication date	Application number	Application date
ITUB20154009 A1	20170329	IT2015UB04009	20150929
WO17055930 A1	20170406	WO2016IB01594	20160929

Priority:

IT2015UB04009 20150929

Probable Assignee: EUROPEAN MOLECULAR BIOLOGY LABORATORY

Assignee(s): (std): EUROPEAN MOLECULAR BIOLOGY LABORATORY ; UNIV DEGLI STUDI DI PERUGIA ; UNIVERSITA DEGLI STUDI DI PERUGIA

Inventor(s): (std): BERESHCHENKO OXANA ; BRUSCOLI STEFANO ; NERLOV CLAUS ; RICCARDI CARLO

Agent(s): TRUPIANO FEDERICA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW