

Title (en)
HUMAN HYPERPOLARIZATION-ACTIVATED CYCLIC NUCLEOTIDE-GATED CATION CHANNEL HCN3

Title (de)
MENSCHLICHER HYPERPOLARISATIONSAKTIVIERTER, DURCH CYCLISCHE NUKLEOTIDE GESTEUERTER KATIONENKANAL HCN3

Title (fr)
HCN3 DE CANAL CATIONIQUE DECLENCHE PAR DES NUCLEOTIDES CYCLIQUES ET ACTIVES PAR HYPERPOLARISATION CHEZ L'HOMME

Publication
EP 1358196 A4 20041103 (EN)

Application
EP 01991006 A 20011214

Priority

- US 0147903 W 20011214
- US 25680000 P 20001220

Abstract (en)
[origin: WO0250300A2] The present invention is directed to novel human DNA sequences encoding human HCN3 proteins, the protein encoded by the DNA sequences, vectors comprising the DNA sequences, host cells containing the vectors, and methods of identifying inhibitors and activators of cation channels containing the human HCN3 proteins.

IPC 1-7
C07H 19/00; C07H 21/02; C07H 21/04; C12N 15/00; G01N 33/00; G01N 33/53

IPC 8 full level
C07K 14/705 (2006.01)

CPC (source: EP)
C07K 14/705 (2013.01)

Citation (search report)

- [E] WO 0204520 A2 20020117 - INCYTE GENOMICS INC [US]
- [E] WO 02100408 A2 20021219 - ORTHO MCNEIL PHARM INC [US], et al
- [X] DATABASE EMBL 23 May 2000 (2000-05-23), "Homo sapiens mRNA for KIAA1535 protein, partial cds", XP002294373, retrieved from EBI Database accession no. AB040968
- [DX] DATABASE EMBL 18 June 1998 (1998-06-18), "Mus musculus mRNA for hyperpolarization-activated cation channel HAC3", XP002294374, retrieved from EBI Database accession no. AJ225124
- [A] SANTORO BINA ET AL: "The HCN gene family: Molecular basis of the hyperpolarization-activated pacemaker channels", ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, NEW YORK ACADEMY OF SCIENCES, NEW YORK, NY, US, vol. 868, 30 April 1999 (1999-04-30), pages 741 - 764, XP002177233, ISSN: 0077-8923
- [A] CLAPHAM DAVID E: "Not so funny anymore: Pacing channels are cloned", NEURON, CAMBRIDGE, MA, US, vol. 21, no. 1, July 1998 (1998-07-01), pages 5 - 7, XP002177234 & NAGASE T ET AL: "PREDICTION OF THE CODING SEQUENCES OF UNIDENTIFIED HUMAN GENES.17. THE COMPLETE SEQUENCES OF 100 NEW CDNA CLONES FROM BRAIN WHICH CODE FOR LARGE PROTEINS IN VITRO", DNA RESEARCH, UNIVERSAL ACADEMY PRESS, JP, vol. 7, April 2000 (2000-04-01), pages 143 - 150, XP008010899, ISSN: 1340-2838 & LUDWIG A ET AL: "A FAMILY OF HYPERPOLARIZATIONACTIVATED MAMMALIAN CATION CHANNELS", NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 393, 11 June 1998 (1998-06-11), pages 587 - 591, XP002109145, ISSN: 0028-0836
- See references of WO 0250300A2

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 0250300 A2 20020627; WO 0250300 A3 20030904; CA 2432274 A1 20020627; EP 1358196 A2 20031105; EP 1358196 A4 20041103

DOCDB simple family (application)
US 0147903 W 20011214; CA 2432274 A 20011214; EP 01991006 A 20011214