

Title (en)

TWO PORE POTASSIUM CHANNELS, NUCLEOTIDE SEQUENCES ENCODING THEM, AND METHODS OF USING SAME

Title (de)

ZWEI PORIEN KALIUMKANÄLE, NUKLEOTIDSEQUENZEN DIE DAFÜR KODIEREN , UND DEREN VERFAHREN ZUR ANWENDUNG

Title (fr)

CANAUX POTASSIQUES A DEUX PORES, SEQUENCES NUCLEOTIDIQUES CODANT CEUX-CI ET LEURS PROCEDES D'UTILISATION

Publication

EP 1257643 A2 20021120 (EN)

Application

EP 01909208 A 20010214

Priority

- US 0104680 W 20010214
- US 50384900 A 20000215

Abstract (en)

[origin: WO0161006A2] This invention relates generally to a new family of potassium channels, whose molecular architecture is characterized by four membrane spanning domains and two putative pore forming domains. More particularly, the present invention relates to the cloning and characterization of mutants of this family of distinct transmembrane potassium ion channels which confer improved inward potassium flux under acidic conditions, characterization of such channels, newly identified polynucleotide sequences, polypeptides encoded by such sequences, expression vectors capable of heterologous expression of such polynucleotide sequences, transformed host cells containing the expression vectors, and assay methods and kits therefor for determining the expression of heterologous nucleotide sequences encoding all or a portion of said potassium channels in host cells, chromosome mapping, diagnostic methodologies and kits therefor.

IPC 1-7

C12N 15/12; **C12N 15/82**; **C12N 5/10**; **C07K 14/705**; **C12Q 1/68**

IPC 8 full level

C12N 15/09 (2006.01); **C07K 14/435** (2006.01); **C07K 14/465** (2006.01); **C07K 14/47** (2006.01); **C07K 14/705** (2006.01); **C12N 1/15** (2006.01); **C12N 1/19** (2006.01); **C12N 5/10** (2006.01); **C12N 15/12** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)

C07K 14/705 (2013.01); **C12N 15/8261** (2013.01); **Y02A 40/146** (2017.12)

Citation (search report)

See references of WO 0161006A2

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 0161006 A2 20010823; **WO 0161006 A3 20020117**; **WO 0161006 A9 20020418**; **WO 0161006 A9 20031120**; AU 3698801 A 20010827; EP 1257643 A2 20021120; JP 2003523206 A 20030805

DOCDB simple family (application)

US 0104680 W 20010214; AU 3698801 A 20010214; EP 01909208 A 20010214; JP 2001560376 A 20010214