

Title (en)

MAMMALIAN RECEPTOR GENES AND USES

Title (de)

SÄUGER-REZEPTORGENE UND VERWENDUNGEN DAVON

Title (fr)

GENES DE RECEPTEURS MAMMALIENS ET LEURS UTILISATIONS

Publication

**EP 1319070 A2 20030618 (EN)**

Application

**EP 01972993 A 20010912**

Priority

- US 0128455 W 20010912
- US 65951900 A 20000912
- US 30396701 P 20010709

Abstract (en)

[origin: WO0222801A2] The present invention relates to novel mammalian biogenic amine receptor proteins and genes that encode such proteins. The invention is directed toward the isolation and characterization of mammalian trace amine receptor proteins. The invention specifically provides isolated complementary DNA copies of mRNA corresponding to rat and human homologues of a mammalian trace amine receptor gene. Also provided are recombinant expression constructs capable of expressing the mammalian trace amine receptor genes of the invention in cultures of transformed prokaryotic and eukaryotic cells, as well as such cultures of transformed cells that synthesize the mammalian trace amine receptor proteins encoded therein. The invention also provides methods for screening compounds *in vitro* that are capable of binding to the mammalian trace amine receptor proteins of the invention, and further characterizing the binding properties of such compounds and functional consequences thereof in comparison with known trace amine receptor agonists and antagonists. Improved methods of pharmacological screening are provided thereby.

IPC 1-7

**C12N 15/12**; C07K 14/705; C12Q 1/68; G01N 33/566; A61K 31/13; A61P 25/18; A61P 25/24; A61P 25/30; A61P 9/12; A61P 11/06; A61P 29/00

IPC 8 full level

**A61P 9/12** (2006.01); **A61P 11/06** (2006.01); **A61P 25/18** (2006.01); **A61P 25/24** (2006.01); **A61P 25/30** (2006.01); **A61P 29/00** (2006.01); **C07K 14/72** (2006.01); **C12N 15/12** (2006.01); **A61K 38/00** (2006.01)

CPC (source: EP)

**A61P 9/12** (2017.12); **A61P 11/06** (2017.12); **A61P 25/18** (2017.12); **A61P 25/24** (2017.12); **A61P 25/30** (2017.12); **A61P 29/00** (2017.12); **C07K 14/723** (2013.01); **A61K 38/00** (2013.01)

Citation (search report)

See references of WO 0222801A2

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 0222801 A2 20020321**; **WO 0222801 A3 20030306**; **WO 0222801 A9 20030703**; AU 9261701 A 20020326; CA 2422288 A1 20020321; EP 1319070 A2 20030618

DOCDB simple family (application)

**US 0128455 W 20010912**; AU 9261701 A 20010912; CA 2422288 A 20010912; EP 01972993 A 20010912