

Title (en)

MTS GENE, MUTATIONS THEREIN, AND METHODS FOR DIAGNOSING CANCER USING MTS GENE SEQUENCE

Title (de)

MTS-GEN, MUTATIONEN DARIN UND METHODEN ZUR KREBSDIAGNOSTIK MITTELS DER MTS-GENSEQUENT

Title (fr)

GENE MTS, MUTATIONS DESDITS GENES ET PROCEDES DE DIAGNOSTIC DU CANCER A L'AIDE DE SEQUENCES DU GENE MTS

Publication

EP 0708592 A4 19970507 (EN)

Application

EP 95914738 A 19950317

Priority

- US 9503316 W 19950317
- US 21458194 A 19940318
- US 21458294 A 19940318
- US 21508894 A 19940318
- US 22736994 A 19940414
- US 25193894 A 19940601

Abstract (en)

[origin: WO9525429A1] The present invention relates to somatic mutations in the Multiple Tumor Suppressor (MTS) gene in human cancers and their use in the diagnosis and prognosis of human cancer. The invention further relates to germ line mutations in the MTS gene and their use in the diagnosis of predisposition to melanoma, leukemia, astrocytoma, glioblastoma, lymphoma, glioma, Hodgkin's lymphoma, CLL, and cancers of the pancreas, breast, thyroid, ovary, uterus, testis, kidney, stomach and rectum. The invention also relates to the therapy of human cancers which have a mutation in the MTS gene, including gene therapy, protein replacement therapy and protein mimetics. Finally, the invention relates to the screening of drugs for cancer therapy.

IPC 1-7

A01K 67/00; **A61K 48/00**; **C07H 21/00**; **C07K 14/435**; **C07K 16/00**; **C12N 1/21**; **C12N 15/09**; **C12N 15/12**

IPC 8 full level

A01K 67/027 (2006.01); **A01K 67/00** (2006.01); **A61K 31/70** (2006.01); **A61K 38/00** (2006.01); **A61K 39/395** (2006.01); **A61K 48/00** (2006.01); **A61P 35/00** (2006.01); **C07H 21/00** (2006.01); **C07H 21/04** (2006.01); **C07K 14/435** (2006.01); **C07K 14/47** (2006.01); **C07K 16/00** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/00** (2006.01); **C12N 5/10** (2006.01); **C12N 15/09** (2006.01); **C12N 15/12** (2006.01); **C12P 21/02** (2006.01); **C12P 21/08** (2006.01); **C12Q 1/68** (2006.01); **G01N 33/53** (2006.01); **G01N 33/574** (2006.01)

CPC (source: EP)

A61P 35/00 (2017.12); **C07K 14/4703** (2013.01); **A01K 2217/05** (2013.01); **A61K 38/00** (2013.01); **A61K 48/00** (2013.01)

Citation (search report)

- [X] WO 9200757 A1 19920123 - RES CORP TECHNOLOGIES INC [US]
- [PX] WO 9409135 A1 19940428 - COLD SPRING HARBOR LAB [US]
- [T] WO 9528169 A1 19951026 - UNIV CALIFORNIA [US]
- [T] WO 9528483 A1 19951026 - COLD SPRING HARBOR LAB [US]
- [X] SERRANO M ET AL: "A new regulatory motif in cell-cycle control causing specific inhibition of cyclin D/CDK4", NATURE, DEC 16 1993, 366 (6456) P704-7, ENGLAND, XP002026854
- [PX] KAMB A ET AL: "A cell cycle regulator potentially involved in genesis of many tumor types [see comments]", SCIENCE, APR 15 1994, 264 (5157) P436-40, UNITED STATES, XP002026855
- [PX] HANNON GJ ET AL: "p15INK4B is a potential effector of TGF-beta-induced cell cycle arrest [see comments]", NATURE, SEP 15 1994, 371 (6494) P257-61, ENGLAND, XP002026856
- [PX] OKAMOTO A ET AL: "Mutations and altered expression of p16INK4 in human cancer.", PROC NATL ACAD SCI U S A, NOV 8 1994, 91 (23) P11045-9, UNITED STATES, XP002026857
- [PX] JEN J ET AL: "Deletion of p16 and p15 genes in brain tumors.", CANCER RES, DEC 15 1994, 54 (24) P6353-8, UNITED STATES, XP002026858
- See references of WO 9525429A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9525429 A1 19950928; AU 2186395 A 19951009; AU 694502 B2 19980723; CA 2162147 A1 19950928; CN 1128935 A 19960814; EP 0708592 A1 19960501; EP 0708592 A4 19970507; FI 955415 A0 19951110; FI 955415 A 19960109; JP H08510651 A 19961112; NO 954494 D0 19951108; NO 954494 L 19960117; NZ 283539 A 19980226

DOCDB simple family (application)

US 9503316 W 19950317; AU 2186395 A 19950317; CA 2162147 A 19950317; CN 95190376 A 19950317; EP 95914738 A 19950317; FI 955415 A 19951110; JP 52471795 A 19950317; NO 954494 A 19951108; NZ 28353995 A 19950317