

Title (en)  
ISOLATED NUCLEIC ACIDS OF THE P-HYDE FAMILY, P-HYDE PROTEINS, AND METHODS OF INDUCING SUSCEPTIBILITY TO INDUCTION OF CELL DEATH IN CANCER

Title (de)  
ISOLIERTE NUKLEINSÄUREN DER P-HYDE-FAMILIE, P-HYDE-PROTEINE UND VERFAHREN ZUR ERZEUGUNG VON EMPFINDLICHKEIT GEGENÜBER DER INDUKTION DES ZELLTODES IN KREBS

Title (fr)  
ACIDES NUCLEIQUES ISOLES DE LA FAMILLE P-HYDE, PROTEINES P-HYDE ET PROCEDE POUR INDUIRE LA SUSCEPTIBILITE A L'INDUCTION DE LA MORT CELLULAIRE PROGRAMMEE PENDANT LE CANCER

Publication  
**EP 1328151 A4 20040616 (EN)**

Application  
**EP 00953630 A 20000501**

Priority  
• US 0011456 W 20000501  
• US 13160799 P 19990429  
• US 30245799 A 19990429  
• US 49981700 A 20000208

Abstract (en)  
[origin: WO0071564A2] This invention provides isolated nucleic acid of the p-Hyde gene, analogs, fragments, mutants, and variants thereof of the p-Hyde family. The invention provides polypeptides, fusion proteins, chimerics, fusion proteins, antisense molecules, antibodies, and uses thereof. Also, this invention is directed to a method of inducing susceptibility to apoptosis with p-Hyde, a method of suppressing tumor growth with p-Hyde, and a method of treating a subject with cancer with p-Hyde alone or in combination with radiation, chemotherapy, or UV mimetic drugs. The invention also relates to the therapy of human cancers which have a mutation in the p-Hyde gene, including gene therapy, protein replacement therapy and protein mimetics. The invention further relates to the screening of drugs for cancer therapy. Finally, the invention relates to the screening of the p-Hyde gene for mutations, which are useful for diagnosing the predisposition to cancer.

IPC 1-7  
**C12N 15/62**; C07H 21/00; A61K 48/00; C07K 16/00; C07K 19/00; A61P 35/00; C12P 21/00; A01K 67/027; C07K 14/47; C12N 15/12; C07K 16/30; G01N 33/574; C12Q 1/70; A61K 31/7052; C12N 15/861

IPC 8 full level  
**A01K 67/027** (2006.01); **A61K 35/76** (2006.01); **A61K 38/00** (2006.01); **A61K 48/00** (2006.01); **A61P 35/00** (2006.01); **A61P 35/02** (2006.01); **C07K 14/47** (2006.01); **C07K 16/18** (2006.01); **C07K 19/00** (2006.01); **C12N 1/15** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/02** (2006.01); **C12N 5/10** (2006.01); **C12N 15/09** (2006.01); **C12P 21/02** (2006.01); **C12P 21/08** (2006.01); **C12Q 1/68** (2006.01); **G01N 33/15** (2006.01); **G01N 33/50** (2006.01)

CPC (source: EP)  
**A61P 35/00** (2017.12); **A61P 35/02** (2017.12); **C07K 14/4747** (2013.01); **A61K 38/00** (2013.01); **C12N 2799/022** (2013.01)

Citation (search report)  
• [E] WO 0159127 A2 20010816 - INCYTE GENOMICS INC [US], et al  
• [E] EP 1074617 A2 20010207 - HELIX RES INST [JP]  
• [E] WO 0172962 A2 20011004 - SAATCIOGLU FAHRI [US]  
• [PX] DATABASE EMBL [online] EBI; 22 February 2000 (2000-02-22), "Homo sapiens cDNA FLJ10829 fis, clone NT2RP4001138", XP002276044, retrieved from EMBL Database accession no. AK001691  
• [A] AMSON R B ET AL: "ISOLATION OF 10 DIFFERENTIALLY EXPRESSED CNDAS IN P53-INDUCED APOPTOSIS: ACTIVATION OF THE VERTEBRATE HOMOLOGUE OF THE DROSOPHILA SEVEN IN ABSENTIA GENE", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 93, no. 9, 30 April 1996 (1996-04-30), pages 3953 - 3957, XP002032914, ISSN: 0027-8424  
• [T] STEINER M S ET AL: "GROWTH INHIBITION OF PROSTATE CANCER BY AN ADENOVIRUS EXPRESSING A NOVEL TUMOR SUPPRESSOR GENE, PHYDE", CANCER RESEARCH, AMERICAN ASSOCIATION FOR CANCER RESEARCH, BALTIMORE, MD, US, vol. 60, no. 16, 15 August 2000 (2000-08-15), pages 4419 - 4425, XP001076638, ISSN: 0008-5472  
• [T] ZHANG X ET AL: "APOPTOSIS INDUCTION IN PROSTATE CANCER CELLS BY A NOVEL GENE PRODUCT, PHYDE, INVOLVES CASPASE-3", ONCOGENE, BASINGSTOKE, HANTS, GB, vol. 20, no. 42, 20 September 2001 (2001-09-20), pages 5982 - 5990, XP008003138, ISSN: 0950-9232  
• [T] RINALDY A R ET AL: "Role of pHyde novel gene product as an intrinsic factor for apoptotic pathway in prostate cancer.", GAN TO KAGAKU RYOHO. CANCER & CHEMOTHERAPY. JAPAN MAY 2000, vol. 27 Suppl 2, May 2000 (2000-05-01), pages 215 - 222, XP009028708, ISSN: 0385-0684  
• See references of WO 0071564A2

Citation (examination)  
JOHNSON M.I.; HAMDY F.C.: "Apoptosis regulating genes in prostate cancer (Review)", ONCOLOGY REPORTS, vol. 5, no. 3, May 1998 (1998-05-01), pages 553 - 557, XP009028911

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0071564 A2 20001130**; **WO 0071564 A3 20030501**; **WO 0071564 A8 20011004**; AU 6604600 A 20001212; AU 769889 B2 20040205; CA 2371828 A1 20001130; EP 1328151 A2 20030723; EP 1328151 A4 20040616; JP 2003529321 A 20031007

DOCDB simple family (application)  
**US 0011456 W 20000501**; AU 6604600 A 20000501; CA 2371828 A 20000501; EP 00953630 A 20000501; JP 2000619819 A 20000501