

Title (en)
HUMAN ANALOGS OF MURINE DEUBIQUITINATING PROTEASE GENES

Title (de)
MENSCHLICHE ANALOGE VON GENEN DEUBIQUITINIERENDER PROTEASEN DER MAUS

Title (fr)
ANALOGUES HUMAINS DE GENES DE PROTEASE MURINE LIBERATRICE D'UBIQUITINE

Publication
EP 1534825 A4 20060201 (EN)

Application
EP 03711195 A 20030220

Priority
• GB 0208404 A 20020412
• US 0305338 W 20030220
• US 35887302 P 20020222
• US 35887502 P 20020222
• US 36302002 P 20020308

Abstract (en)
[origin: WO03072724A2] The present invention is directed to human analogs of murine hematopoietic-specific, cytokine-inducible deubiquitinating proteases ("DUBs") clustered on chromosomes 4 and 8 and their respective regulatory regions. The nucleotides or proteins encoded thereby may be used in assays to identify inhibitors of human DUBs.

IPC 1-7
C12N 9/64; **C12N 9/48**; **C12N 15/12**

IPC 8 full level
C12N 9/16 (2006.01); **C12N 9/64** (2006.01); **A61K 38/00** (2006.01)

CPC (source: EP)
C12N 9/6472 (2013.01)

Citation (search report)
• [X] WO 0001817 A2 20000113 - SCHERING CORP [US]
• [X] WO 9706247 A2 19970220 - DANA FARBER CANCER INST INC [US], et al
• [T] WO 2005049818 A2 20050602 - UNIV BELFAST [GB], et al
• [T] DATABASE EMBL [online] 18 January 2004 (2004-01-18), "Homo sapiens deubiquitinating enzyme 3 (DUB3) mRNA, complete cds.", XP002356525, retrieved from EBI accession no. EM_PRO:AY509884 Database accession no. AY509884
• [T] BAEK K-H ET AL: "Essential regions of deubiquitinating enzyme activity and enhancer function for DUB-2A expressed in T-lymphocytes", ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, NEW YORK, US, US, vol. 430, no. 2, 15 October 2004 (2004-10-15), pages 191 - 197, XP004562711, ISSN: 0003-9861
• [A] ZHU Y ET AL: "DUB-1, A DEUBIQUITINATING ENZYME WITH GROWTH-SUPPRESSING ACTIVITY", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 93, no. 8, April 1996 (1996-04-01), pages 3275 - 3279, XP002029887, ISSN: 0027-8424
• [A] ZHU YUAN ET AL: "The murine DUB-1 gene is specifically induced by the beta-c subunit of the interleukin-3 receptor", MOLECULAR AND CELLULAR BIOLOGY, vol. 16, no. 9, 1996, pages 4808 - 4817, XP002356520, ISSN: 0270-7306
• [A] BAEK KWANG-HYUN ET AL: "DUB-2A, a new member of the DUB subfamily of hematopoietic deubiquitinating enzymes", BLOOD, vol. 98, no. 3, 1 August 2001 (2001-08-01), pages 636 - 642, XP002356521, ISSN: 0006-4971
• [A] ZHU YUAN ET AL: "DUB-2 is a member of a novel family of cytokine-inducible deubiquitinating enzymes", JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BIRMINGHAM, US, vol. 272, no. 1, 1997, pages 51 - 57, XP002169001, ISSN: 0021-9258
• [A] MIGONE THI-SAU ET AL: "The deubiquitinating enzyme DUB-2 prolongs cytokine-induced signal transducers and activators of transcription activation and suppresses apoptosis following cytokine withdrawal", BLOOD, vol. 98, no. 6, 15 September 2001 (2001-09-15), pages 1935 - 1941, XP002356522, ISSN: 0006-4971
• [A] LEE JIN-HIE ET AL: "Critical regions for deubiquitinating activity of DUB-2 expressed in T-lymphocytes", AMERICAN JOURNAL OF HEMATOLOGY, vol. 67, no. 4, August 2001 (2001-08-01), pages 270 - 272, XP009057991, ISSN: 0361-8609
• [A] D'ANDREA A ET AL: "DEUBIQUITINATING ENZYMES A NEW CLASS OF BIOLOGICAL REGULATORS", CRITICAL REVIEWS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY, CRC PRESS, BOCA RATON, FL, US, vol. 33, no. 5, October 1998 (1998-10-01), pages 337 - 352, XP000943127, ISSN: 1040-9238 & BURROWS JAMES F ET AL: "DUB-3, a cytokine-inducible deubiquitinating enzyme that blocks proliferation", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 279, no. 14, 2 April 2004 (2004-04-02), pages 13993 - 14000, XP002356519, ISSN: 0021-9258
• See references of WO 03072724A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
WO 03072724 A2 20030904; **WO 03072724 A3 20050407**; AU 2003215370 A1 20030909; AU 2003215370 B2 20080612; BR 0307895 A 20060117; CA 2476770 A1 20030904; EP 1534825 A2 20050601; EP 1534825 A4 20060201; IL 163528 A0 20051218; MX PA04007760 A 20050815

DOCDB simple family (application)
US 0305338 W 20030220; AU 2003215370 A 20030220; BR 0307895 A 20030220; CA 2476770 A 20030220; EP 03711195 A 20030220; IL 16352803 A 20030220; MX PA04007760 A 20030220