

Title (en)
PROKARYOTIC SYSTEM DESIGNED TO MONITOR PROTEASE ACTIVITY

Title (de)
PROKARYOTISCHES SYSTEM ZUM ÜBERWACHEN VON PROTEASEAKTIVITÄTEN

Title (fr)
SYSTEME PROCARYOTE CON U POUR SURVEILLER UNE ACTIVITE PROTEASE

Publication
EP 1141382 A4 20030108 (EN)

Application
EP 00908220 A 20000106

Priority
• US 0000308 W 20000106
• US 11527099 P 19990108

Abstract (en)
[origin: WO0040745A1] The invention relates to a prokaryotic cell system for monitoring protease activity. The invention also includes assays for identifying protease inhibitors and protease modulators, determining the amino acid sequence of a protease cleavage site for a known protease, identifying and cloning a protease whose cleavage site is known, and rapidly identifying a form of a protease exhibiting increased activity relative to a control protease.

IPC 1-7
C12Q 1/37; **C12N 1/21**; **C12N 15/63**

IPC 8 full level
C12N 15/09 (2006.01); **C12N 1/21** (2006.01); **C12N 9/50** (2006.01); **C12Q 1/37** (2006.01); **C12Q 1/68** (2006.01); **C12R 1/19** (2006.01)

CPC (source: EP)
C12N 9/503 (2013.01); **C12N 9/506** (2013.01); **C12Q 1/37** (2013.01)

Citation (search report)
• [PX] LAWLER JOSEPH F JR ET AL: "Viral protease assay based on GAL4 inactivation is applicable to high-throughput screening in mammalian cells.", ANALYTICAL BIOCHEMISTRY, vol. 269, no. 1, 10 April 1999 (1999-04-10), pages 133 - 138, XP002220088, ISSN: 0003-2697
• [X] DASMAHAPATRA B ET AL: "A GENETIC SYSTEM FOR STUDYING THE ACTIVITY OF A PROTEOLYTIC ENZYME", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 89, May 1992 (1992-05-01), pages 4159 - 4162, XP000946643, ISSN: 0027-8424
• [A] FIELDS S ET AL: "THE TWO-HYBRID SYSTEM: AN ASSAY FOR PROTEIN-PROTEIN INTERACTIONS", TRENDS IN GENETICS, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 10, no. 8, 1 August 1994 (1994-08-01), pages 286 - 292, XP000647708, ISSN: 0168-9525
• [A] LIEBIG H D ET AL: "PROTEINASE TRAPPING: SCREENING FOR VIRAL PROTEINASE MUTANTS BY ALPHA COMPLEMENTATION", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 88, no. 14, 15 July 1991 (1991-07-15), pages 5979 - 5983, XP000248161, ISSN: 0027-8424
• See references of WO 0040745A1

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 0040745 A1 20000713; AU 2960700 A 20000724; AU 764132 B2 20030814; CA 2360022 A1 20000713; EP 1141382 A1 20011010; EP 1141382 A4 20030108; JP 2002534095 A 20021015

DOCDB simple family (application)
US 0000308 W 20000106; AU 2960700 A 20000106; CA 2360022 A 20000106; EP 00908220 A 20000106; JP 2000592438 A 20000106