

Title (en)  
AN ANTIGENIC PEPTIDE ENCODED BY AN ALTERNATIVE OPEN READING FRAME OF HUMAN MACROPHAGE COLONY-STIMULATING FACTOR

Title (de)  
ANTIGENES PEPTID DAS DURCH EINEN ALTERNATIVEN OFFENEN LESERAHMEN DES MENSCHLICHEN MAKROPHAGEN KOLONIE STIMULIERENDEN FAKTORSKODIERT WIRD

Title (fr)  
PEPTIDE ANTIGENIQUE CODE PAR UN AUTRE CADRE DE LECTURE OUVERT DE FACTEUR STIMULANT LA PROLIFERATION DES MACROPHAGES

Publication  
**EP 1109568 A4 20020508 (EN)**

Application  
**EP 99968629 A 19990903**

Priority  
• US 9920344 W 19990903  
• US 9907798 P 19980904

Abstract (en)  
[origin: WO0013699A1] The invention provides immunogenic polypeptides derived from an alternative reading frame of macrophage colony stimulating factor. Methods for diagnosis and treatment which involve the polypeptides also are provided.

IPC 1-7  
**A61K 38/00**; **A61K 38/19**; **A61K 39/00**; **G01N 33/567**; **C07K 14/00**; **C07K 16/24**; **C07K 14/53**; **G01N 33/50**

IPC 8 full level  
**C07K 14/47** (2006.01); **C07K 14/53** (2006.01); **C07K 16/24** (2006.01); **A61K 38/00** (2006.01); **A61K 39/00** (2006.01)

CPC (source: EP)  
**A61K 39/4611** (2023.05); **A61K 39/4644** (2023.05); **C07K 14/47** (2013.01); **C07K 14/4748** (2013.01); **C07K 14/53** (2013.01); **C07K 16/243** (2013.01); **A61K 38/00** (2013.01); **A61K 39/00** (2013.01); **A61K 2039/57** (2013.01); **C07K 2317/34** (2013.01)

Citation (search report)  
• [A] WO 9729195 A2 19970814 - US GOV HEALTH & HUMAN SERV [US]  
• [A] RONG-FU WANG ET AL: "UTILIZATION OF AN ALTERNATIVE OPEN READING FRAME OF A NORMAL GENE IN GENERATING A NOVEL HUMAN CANCER ANTIGEN", JOURNAL OF EXPERIMENTAL MEDICINE, TOKYO, JP, vol. 183, no. 3, 1 March 1996 (1996-03-01), pages 1131 - 1140, XP000674490, ISSN: 0022-1007  
• [A] WANG R-F ET AL: "HUMAN TUMOR ANTIGENS RECOGNIZED BY T LYMPHOCYTES: IMPLICATIONS FOR CANCER THERAPY", JOURNAL OF LEUKOCYTE BIOLOGY, FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL, US, vol. 60, no. 3, 1 September 1996 (1996-09-01), pages 296 - 309, XP000674591, ISSN: 0741-5400  
• [AP] MAYRAND S ET AL: "Non-traditionally derived CTL epitopes: exceptions that prove the rules?", IMMUNOLOGY TODAY, ELSEVIER PUBLICATIONS, CAMBRIDGE, GB, vol. 19, no. 12, December 1998 (1998-12-01), pages 551 - 556, XP004149703, ISSN: 0167-5699  
• See also references of WO 0013699A1

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 0013699 A1 20000316**; AU 6027399 A 20000327; EP 1109568 A1 20010627; EP 1109568 A4 20020508

DOCDB simple family (application)  
**US 9920344 W 19990903**; AU 6027399 A 19990903; EP 99968629 A 19990903