

Title (en)  
COMPOSITIONS AND METHODS FOR THE IDENTIFICATION OF LUNG TUMOR CELLS

Title (de)  
ZUSAMMENSETZUNGEN UND METHODEN ZUR IDENTIFIZIERUNG VON LUNGENTUMORZELLEN

Title (fr)  
COMPOSITIONS ET METHODES D'IDENTIFICATION DE CELLULES DE TUMEUR DU POUMON

Publication  
**EP 1066311 A4 20020410 (EN)**

Application  
**EP 99914285 A 19990330**

Priority  
• US 9906938 W 19990330  
• US 8003798 P 19980331

Abstract (en)  
[origin: WO9950278A1] This invention provides compositions and methods for the identification of lung cancer cells. In particular, polynucleotide sequences whose presence is indicative of lung cancer are disclosed. In addition, lung cancer can be identified by detecting the presence of the peptides encoded by these sequences. Antibodies to these peptides are also provided. Also included are gene delivery vehicles and host cells comprising these polynucleotides. Kits containing agents and instructions necessary to perform the screening and detecting methods are also provided.

IPC 1-7  
**C07H 21/04**; **C12Q 1/68**; **C07K 14/435**; **C07K 16/00**; **G01N 33/53**; **C12N 15/00**; **C12N 15/85**

IPC 8 full level  
**A01K 67/027** (2006.01); **A61K 45/00** (2006.01); **A61P 9/00** (2006.01); **A61P 35/00** (2006.01); **C07H 21/04** (2006.01); **C07K 14/47** (2006.01); **C07K 16/18** (2006.01); **C12N 1/15** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12N 9/02** (2006.01); **C12N 15/09** (2006.01); **C12P 21/08** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/6886** (2018.01); **G01N 33/15** (2006.01); **G01N 33/53** (2006.01); **G01N 33/566** (2006.01); **G01N 33/574** (2006.01)

CPC (source: EP)  
**A61P 9/00** (2017.12); **A61P 35/00** (2017.12); **C12N 9/0004** (2013.01); **C12Q 1/6886** (2013.01); **G01N 33/57423** (2013.01); **C12Q 2600/136** (2013.01)

Citation (search report)  
• [A] WO 9742211 A1 19971113 - CHIRON CORP [US]  
• [X] BACHER N ET AL.: "Isolation and characterization of PKC-L, a new member of the protein kinase C-related gene family specifically expressed in lung, skin and heart.", MOLECULAR CELL BIOLOGY, vol. 11, no. 1, January 1991 (1991-01-01), XP001032543  
• [DX] DATABASE GENBANK E.B.I. Hinxton U.K.; 17 February 1997 (1997-02-17), ZSCHUNKE F: "Serine Esterase", XP002179576  
• [DX] DATABASE GENBANK E.B.I. Hinxton, U.K.; 27 April 1993 (1993-04-27), LONG RM: "Human Liver Carboxylesterase isoenzyme", XP002179577  
• [X] DATABASE GENBANK E.B.I. Hinxton U.K.; 18 May 1994 (1994-05-18), HALLEWELL RA: "Mouse Manganese Superoxide Dismutase", XP002179578  
• [A] VAN ZANDWIJK N AND VAN 'T VEER L: "The role of prognostic factors and oncogenes in the detection and management of Non-Small-Cell Lung Cancer", ONCOLOGY., vol. Supplement 2, January 1998 (1998-01-01), S. KARGER AG, BASEL., CH, pages 55 - 59, XP001031838, ISSN: 0030-2414  
• [A] SALGIA R AND SKARIN AT: "Molecular abnormalities in lung cancer", JOURNAL OF CLINICAL ONCOLOGY, vol. 16, no. 3, March 1998 (1998-03-01), PHILADELPHIA, PA, US, pages 1207 - 1217, XP001030483  
• [A] BIRREER MJ AND BROWN PH: "Application of molecular genetics to the early diagnosis and screening of lung cancer", CANCER RESEARCH., vol. 52, no. suppl. 1 May 1992 (1992-05-01), AMERICAN ASSOCIATION FOR CANCER RESEARCH, BALTIMORE, MD., US, pages 2658s - 2664s, XP002180205, ISSN: 0008-5472  
• See references of WO 9950278A1

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 9950278 A1 19991007**; AU 3216899 A 19991018; AU 757478 B2 20030220; AU 757478 C 20040325; CA 2323833 A1 19991007; EP 1066311 A1 20010110; EP 1066311 A4 20020410; JP 2002509707 A 20020402

DOCDB simple family (application)  
**US 9906938 W 19990330**; AU 3216899 A 19990330; CA 2323833 A 19990330; EP 99914285 A 19990330; JP 2000541180 A 19990330