

Title (en)  
CLINICAL ASSAY FOR NUCLEIC ACIDS AMPLIFIED IN SOLID MATRICES TO PRODUCE COLONIES OF THE PROGENY OF INDIVIDUAL TARGET MOLECULES

Title (de)  
KLINISCHER TEST FÜR IN FESTKÖRPERMATRIZES AMPLIFIZIERTEN NUKLEINSÄUREN ZUR HERSTELLUNG VON KOLONIEN DER NACHKOMMENSCHAFT INDIVIDUELLER ZIELMOLEKÜLE

Title (fr)  
ESSAI CLINIQUE DESTINES A DES ACIDES NUCLEIQUES AMPLIFIES DANS DES MATRICES SOLIDES PERMETTANT DE PRODUIRE DES COLONIES DE DESCENDANTS DE MOLECULES CIBLES INDIVIDUELLES

Publication  
**EP 1409744 A4 20041103 (EN)**

Application  
**EP 02768208 A 20020621**

Priority  
• RU 0200307 W 20020621  
• US 30002401 P 20010621

Abstract (en)  
[origin: WO03000839A2] A quantitative multiplex assay for at least two nucleic acid targets, on of which is rare and another of which is present at much higher level, comprising adding reagents for amplification of the targets by polymerase chain reaction (PCR) to a thin polyacrylamide gel matrix that has been washed and dried, distributing a sample containing the targets across the surface of the gel sufficiently to separate rare target molecules but not molecules of the abundant target, cycling the gel through a PCR protocol to amplify the target, and counting the number of individual colonies of the rare target.

IPC 1-7  
**C12Q 1/68**; **C12P 19/34**; **C12Q 1/48**

IPC 8 full level  
**C12Q 1/68** (2006.01); **C12Q 1/6851** (2018.01)

CPC (source: EP)  
**C12Q 1/6851** (2013.01)

Citation (search report)  
• [XY] US 5958698 A 19990928 - CHETVERIN ALEXANDER BORISOVICH [RU], et al  
• [Y] CHETVERINA H V ET AL: "Cloning of RNA molecules in vitro", NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 21, no. 10, 1993, pages 2349 - 2353, XP002200793, ISSN: 0305-1048  
• [A] MITRA R D ET AL: "In situ localized amplification and contact replication of many individual DNA molecules.", NUCLEIC ACIDS RESEARCH. 15 DEC 1999, vol. 27, no. 24, 15 December 1999 (1999-12-15), pages e34, XP002292358, ISSN: 1362-4962  
• [T] CHETVERINA HELENA V ET AL: "Molecular colony diagnostics: detection and quantitation of viral nucleic acids by in-gel PCR.", BIOTECHNIQUES. JUL 2002, vol. 33, no. 1, July 2002 (2002-07-01), pages 150 - 152 , 154, XP001194736, ISSN: 0736-6205  
• See references of WO 03000839A2

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

DOCDB simple family (publication)  
**WO 03000839 A2 20030103**; **WO 03000839 A3 20030313**; AU 2002330802 A1 20030108; EP 1409744 A2 20040421; EP 1409744 A4 20041103

DOCDB simple family (application)  
**RU 0200307 W 20020621**; AU 2002330802 A 20020621; EP 02768208 A 20020621