Title (en)

SAMPLING METHOD AND APPARATUS FOR AMPLIFICATION REACTION ANALYSIS

Title (de)

PROBENAUFNAHMEVERFAHREN UND VORRICHTUNG ZUR ANALYSE EINER AMPLIFIKATIONSREAKTION

Title (fr)

PROCEDE ET DISPOSITIF D'ECHANTILLONNAGE PERMETTANT D'ANALYSER DES REACTIONS D'AMPLIFICATION

Publication

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Application

EP 03783738 A 20031121

Priority

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Abstract (en)

[origin: WO2004048528A2] The invention provides sampling methods and apparatuses that permit the quantitative analysis of nucleic acid amplification reactions. Quantitative information garnered during an amplification regimen permits the development of a detailed amplification profile that in turn permits the reliable determination of original template abundance. The methods disclosed are particularly useful for quantitative expression analysis of multiple genes or transcription units, both in the same amplification reaction and in multiple amplification reactions.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [XY] WO 9833942 A1 19980806 - UNIV TECHNOLOGY CORP [US], et al
- [XY] WO 0066995 A2 20001109 - GENOME THERAPEUTICS CORP [US]
- [XY] WO 0216652 A2 20020228 - GENOME THERAPEUTICS CORP [US], et al
- [XP] WO 03035841 A2 20030501 - SENTION INC [US], et al
- [X] WIESNER R J: "DIRECT QUANTIFICATION OF PICOMOLAR CONCENTRATIONS OF MRNAS BY MATHEMATICAL ANALYSIS OF A REVERSE TRANSCRIPTION/EXPONENTIAL POLYMERASE CHAIN REACTION ASSAY", NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 20, no. 21, 11 November 1992 (1992-11-11), pages 5863 - 5864, XP000561191, ISSN: 0305-1048
- [X] WIESNER R J ET AL: "COUNTING TARGET MOLECULES BY EXPONENTIAL POLYMERASE CHAIN REACTION:COPY NUMBER OF MITOCHONDRIAL DNA IN RAT TISSUES", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ACADEMIC PRESS INC. ORLANDO, FL, US, vol. 183, no. 2, 15 March 1992 (1992-03-15), pages 553 - 559, XP000561778, ISSN: 0006-291X
- [XY] MELDRUM DEIRDRE: "Automation for genomics, Part One: Preparation for sequencing", GENOME RESEARCH, vol. 10, no. 8, August 2000 (2000-08-01), pages 1081 - 1092, XP000958747, ISSN: 1088-9051
- [T] GARCIA ELIZABETH P ET AL: "Scalable transcriptional analysis routine - Multiplexed quantitative real-time polymerase chain reaction platform for gene expression analysis and molecular diagnostics", JOURNAL OF MOLECULAR DIAGNOSTICS, vol. 7, no. 4, October 2005 (2005-10-01), pages 444 - 454, XP009060044, ISSN: 1525-1578
- See references of WO 2004048528A2

Citation (examination)

- WO 0155454 A1 20010802 - GENETRACE SYSTEMS INC [US], et al
- LI ET AL: "Quantitative polymerase chain reaction using capillary electrophoresis with laser-induced fluorescence detection: Analysis of duck hepatitis B", ANAL.BIOANAL.CHEM, vol. 374, 28 August 2002 (2002-08-28), pages 269 - 273
- DORSCHNER ET AL: "Diagnosis of five spinocerebellar ataxia disorders by multiplex amplification and capillary electrophoresis", JOURNAL OF MOLECULAR DIAGNOSTICS, vol. 4, no. 2, May 2002 (2002-05-01), pages 108 - 113

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