

Title (en)  
IMPROVED HYBRIDISATION OF NUCLEIC ACIDS

Title (de)  
VERBESSERTE HYBRIDISIERUNG VON NUKLEINSÄUREN

Title (fr)  
HYBRIDATION PERFECTIONNÉE D'ACIDES NUCLÉIQUES

Publication  
**EP 2087133 A4 20100721 (EN)**

Application  
**EP 07815599 A 20071122**

Priority  
• AU 2007001797 W 20071122  
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Abstract (en)  
[origin: WO2008061311A2] A method of reducing nucleotide mis-pairing in hybridisation between a probe oligonucleotide and a target DNA, the method comprising providing at least one oligonucleotide probe of about 7 to about 25 nucleotides, providing a sample comprising target DNA, wherein the DNA is prepared so as to comprise fragments of up to about 100 bases, incubating the DNA with the at least one oligonucleotide probe under conditions suitable to enable hybridisation between probe and target DNA, removing unbound DNA, and detecting DNA hybridised to the at least one oligonucleotide probe, wherein either or both of the DNA and the at least one oligonucleotide probe comprises one or more modified nucleotides, and wherein the DNA of the sample is optionally labelled with a detectable moiety.

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

CPC (source: EP)  
**C12Q 1/6827** (2013.01); **C12Q 1/6832** (2013.01)

Citation (search report)  
• [XY] WO 2006097234 A2 20060921 - EPPENDORF AG [DE], et al  
• [I] WO 2006069584 A2 20060706 - EXIQON AS [DK], et al  
• [X] EP 1247815 A2 20021009 - EXIQON AS [DK]  
• [Y] WO 0238801 A1 20020516 - HUMAN GENETIC SIGNATURES PTY [AU], et al  
• [Y] LOCKHART D J ET AL: "EXPRESSION MONITORING BY HYBRIDIZATION TO HIGH-DENSITY OLIGONUCLEOTIDE ARRAYS", BIO/ TECHNOLOGY, NATURE PUBLISHING CO. NEW YORK, US LNKD- DOI:10.1038/NBT1296-1675, vol. 14, no. 13, 1 December 1996 (1996-12-01), pages 1675 - 1680, XP002022521, ISSN: 0733-222X  
• [Y] LANE S ET AL: "Amplicon secondary structure prevents target hybridization to oligonucleotide microarrays", BIOSENSORS AND BIOELECTRONICS, ELSEVIER BV, NL LNKD- DOI:10.1016/J.BIOS.2004.04.014, vol. 20, no. 4, 1 November 2004 (2004-11-01), pages 728 - 735, XP004633820, ISSN: 0956-5663  
• See references of WO 2008061311A2

Designated contracting state (EPC)  
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