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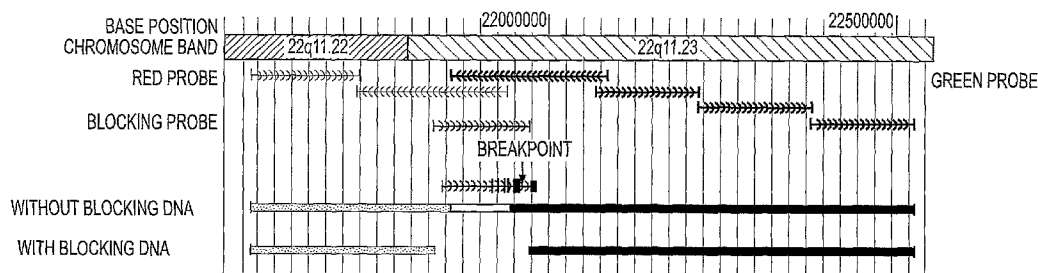
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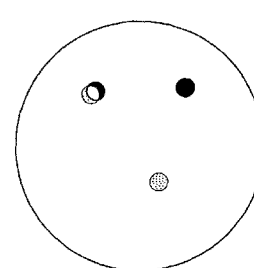
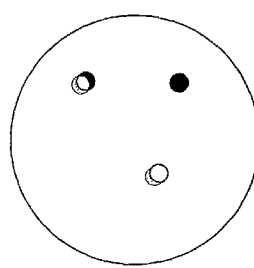
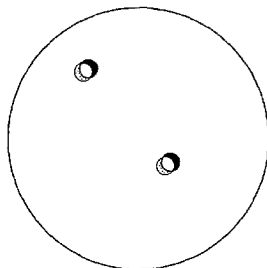
(54) Title: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES



NOT TRANSLOCATION WITH AND WITHOUT BLOCKING DNA

TRANSLOCATION WITHOUT BLOCKING DNA

TRANSLOCATION WITH BLOCKING DNA



(57) Abstract: The present invention relates to probes for use in various applications. For example, these probes may be used to detect, quantify, identify, or analyze nucleic acid molecules or other molecules that bind to the probes. The invention also encompasses compositions and kits containing the probes and methods of using the probes.



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INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2005/004187

A. CLASSIFICATION OF SUBJECT MATTER
INV. C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, BIOSIS, WPI Data, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 885 971 A2 (UNIV CALIFORNIA [US]) 23 December 1998 (1998-12-23) the whole document	1-20
X	HILGENFELD E ET AL: "Spectral karyotyping and fluorescence in situ hybridization detect novel chromosomal aberrations, a recurring involvement of chromosome 21 and amplification of the MYC oncogene in acute myeloid leukaemia M2" BRITISH JOURNAL OF HAEMATOLOGY, vol. 113, no. 2, May 2001 (2001-05), pages 305-317, XP002408631 ISSN: 0007-1048 cited in the application the whole document	1-20

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

22 November 2006

Date of mailing of the international search report

27 -02- 2007

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2005/004187

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>HENEGARIU OCTAVIAN ET AL: "Cryptic translocation identification in human and mouse using several telomeric multiplex FISH (TM-FISH) strategies" LABORATORY INVESTIGATION, vol. 81, no. 4, April 2001 (2001-04), pages 483-491, XP002408632 ISSN: 0023-6837 cited in the application the whole document</p> <p style="text-align: center;">-----</p>	1-20
X	<p>MACVILLE MERRYN ET AL: "Spectral karyotyping, a 24-colour FISH technique for the identification of chromosomal rearrangements" HISTOCHEMISTRY AND CELL BIOLOGY, vol. 108, no. 4-5, 1997, pages 299-305, XP002408633 ISSN: 0948-6143 cited in the application the whole document</p> <p style="text-align: center;">-----</p>	1-20
X	<p>DATABASE EMBL [Online] 27 July 1998 (1998-07-27), "Homo sapiens chromosome 19, cosmid R27377, complete sequence." XP002408545 retrieved from EBI accession no. EM_HUM:AC005321 Database accession no. AC005321 Sequence</p> <p style="text-align: center;">-----</p>	1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2005/004187

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-20 (partially)

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-20 (partially)

Invention 1:

A nucleic acid probe comprising a nucleotide sequence according to Seq. Id. 1, its complement, nucleic acid (analog) hybridising to them, kits and compositions comprising it and methods using it.

2. claims: 1-20 (partially)

Inventions 2-107

A nucleic acid probe comprising a nucleotide sequence according to Seq. Id. 2-107 respectively, its complement, nucleic acid (analog) hybridising to them, kits and compositions comprising it and methods using it.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2005/004187

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0885971	A2	NONE	23-12-1998