METHODS AND ARTICLES FOR HIGH THROUGHPUT ANALYSIS OF BIOMOLECULAR INTERACTIONS

Abstract: Methods, compositions articles of manufacture, and kits for characterizing biomolecular interactions are provided. The interactions may involve various combinations of proteins, lipids, carbohydrates and small molecules. For example, interactions between polynucleotide segments and polynucleotide binding protein(s) may be characterized.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : G01N 33/566; C12Q 1/68; C12P 19/34; C07K 1/00
US CL : 436/501, 518; 435/6, 91.2; 530/350
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)
U.S. : 436/501, 518; 435/6, 91.2; 530/350

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 practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 5,663,753 A (HAUGLAND et al) 26 January 2001 (26.01.1999), see column 15, lines 52-56 and column 31, lines 5-25.</td>
<td>1, 3, 5-8, 10, 11, 22, 23</td>
</tr>
<tr>
<td>Y</td>
<td>5,726,014 A (EDWARDS et al) 10 March 1998 (10.03.1998), see entire document.</td>
<td>2, 4, 9, 12, 21</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,051,377 A (MANDECKI) 18 April 2000 (18.04.2000), see entire document.</td>
<td>1-23</td>
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<td>Y, P</td>
<td>US 6,602,685 B1 (LOHSE) 05 August 2003 (05.08.2003), see entire document.</td>
<td>1-23</td>
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</table>

Further documents are listed in the continuation of Box C. See patent family annex.

Date of the actual completion of the international search
30 January 2004 (30.01.2004)

Date of mailing of the international search
09 July 2004

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Form PCT/ISA/210 (second sheet) (July 1998)
Continuation of B. FIELDS SEARCHED Item 3:

search terms: transponder, radio, tag, DNA, nucleic, oligonucleotide, polynucleotide, RNA, protein, polypeptide, sequencing, proteinase, protease, capture