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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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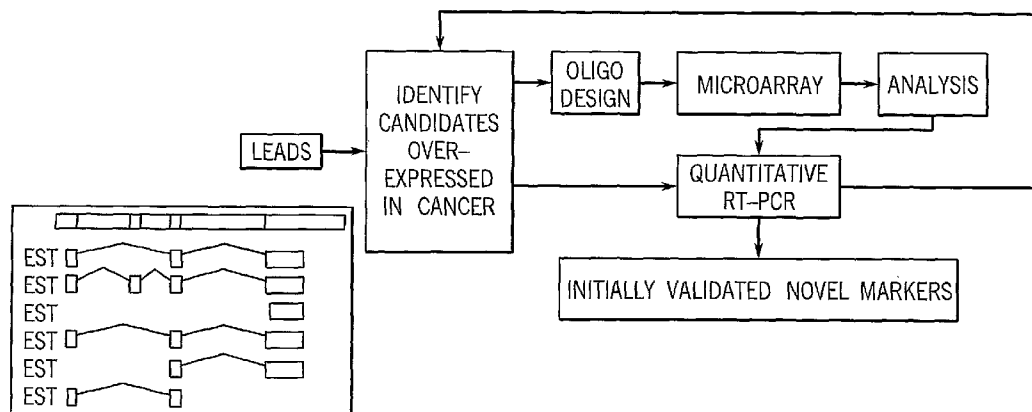
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOVEL DIAGNOSTIC MARKERS, ESPECIALLY FOR IN VIVO IMAGING, AND ASSAYS AND METHODS OF USE THEREOF



(57) Abstract: Novel splice variants as diagnostic markers, preferably membrane-bound. The novel variants according to the present invention may optionally be used for diagnosis of Marker-detectable disease as described herein, optionally through immunohistochemistry.

INTERNATIONAL SEARCH REPORT

International application No

PCT/IL2006/000251

A. CLASSIFICATION OF SUBJECT MATTER
 INV. C12Q1/68 C12N9/64

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)

C12N 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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03/042661 A2 (EOS BIOTECHNOLOGY INC [US]; AFAR DANIEL [US]; AZIZ NATASHA [US]; GINSB) 22 May 2003 (2003-05-22) * See SEQ.ID.C237 in tables 2A-80 *	
A	WO 99/42120 A (UNIV ARKANSAS [US]) 26 August 1999 (1999-08-26) the whole document	
A	WO 01/23524 A2 (UNIV CALIFORNIA [US]) 5 April 2001 (2001-04-05) the whole document	
A	WO 2004/076614 A (HINZMANN BERND [DE]; DAHL EDGAR [DE]; ROSENTHAL ANDRE [DE]; SPECHT THO) 10 September 2004 (2004-09-10) * See SEQ.ID.233 #3 *	
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☒ 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
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- *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.
- *G* document member of the same patent family

Date of the actual completion of the international search

11 July 2007

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INTERNATIONAL SEARCH REPORT

International application No

PCT/IL2006/000251

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	<p>GE WEITING ET AL: "PROTEIN INTERACTION ANALYSIS OF ST14 DOMAINS AND THEIR POINT AND DELETION MUTANTS" JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOCHEMICAL BIOLOGISTS, BIRMINGHAM,, US, vol. 281, no. 11, March 2006 (2006-03), pages 7406-7412, XP009078647 ISSN: 0021-9258 the whole document -----</p>	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL2006/000251

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.:

Invention 1: claims 4-9 completely, and claims 1,3 and 116-134 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:

Invention 1: claims 4-9 completely, and claims 1,3 and 116-134 partially and as far as applicable

Polynucleotide according to SEQ.ID.282, polypeptide encoded thereby according to SEQ.ID.339, variants thereof as defined in claim 4, polypeptides comprising an edge portion of the polypeptide as defined in claim 5, oligonucleotide comprising an amplicon related to the above, primer pair, antibody, kits and methods for detecting a disease, method for screening for a disease, method for diagnosing a disease, or for diagnosing disease progress, or for selecting a therapy for a disease, using the above nucleic acids, polypeptides, antibodies or oligonucleotides.

Inventions 2-11: claims 10-112: as far as applicable, and claims 1,3,113-134: partially and as far as applicable

Subject-matter essentially as defined above for invention 1, but limited to the respective protein sequences 340 to 349, and subject-matter associated therewith.
For the sake of conciseness, the first invention is explicitly defined, inventions 2-11 are defined by analogy thereto.

Invention 12: claim 2, partially

An isolated polynucleotide comprising the sequence represented in SEQ.ID.294.

Inventions 13-55: claim 2, partially

Subject-matter essentially as defined for invention 12 above, but limited to polynucleotides comprising the sequence represented by the respective SEQ.ID's 295 to 337.
For the sake of conciseness, invention 13 is defined explicitly, and inventions 13-55 have been defined by analogy thereto.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IL2006/000251

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