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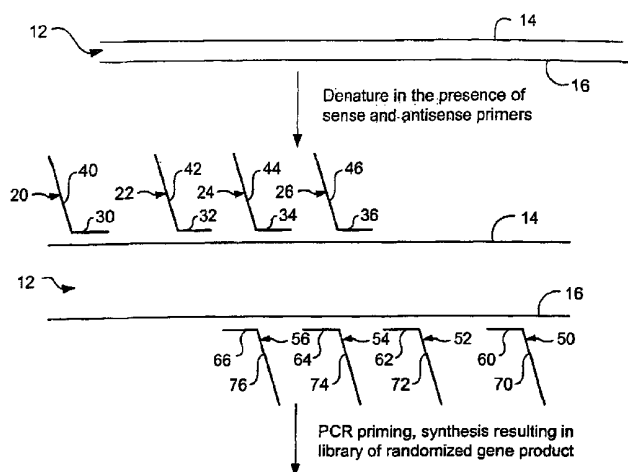
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(54) Title: RANDOM TRUNCATION AND AMPLIFICATION OF NUCLEIC ACID



(57) Abstract: A method is provided for producing a library of mutagenized polynucleotides from a target sequence comprising (a) taking a sample comprising: (i) a target sequence including a section to be mutagenized, (ii) a library of first primers where the first primers include a first fixed sequence and a first unknown sequence 3' to the first fixed sequence, the first unknown sequence varying within the library of first primers, and (iii) a library of second primers where the second primer include a second fixed sequence that differs from the first fixed sequence, and a second unknown sequence 3' to the second fixed sequence, the second unknown sequence varying within the library of second primers; (b) performing one or more cycles of primer extension amplification on the sample in the presence of at least one polymerase such that a member of the library of the first primers is extended relative to the first primer that was extended in step (b) to form the library of mutagenized polynucleotides. The mutagenesis produces a library of mutagenized targeted sequences with random truncations.

WO 01/066798 A3



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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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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, WPI Data, PAJ, MEDLINE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	ROSE T M ET AL: "Consensus-degenerate hybrid oligonucleotide primers for amplification of distantly related sequences" NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 26, no. 7, 1998, pages 1628-1635, XP002141299 ISSN: 0305-1048 the whole document --- -/--	1-52



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US 5 668 294 A (MEAGHER RICHARD B ET AL) 16 September 1997 (1997-09-16) column 9-10; examples 1,8 ----	1-52
A	WO 98 42728 A (SHAO ZHIXIN ;ZHAO HUIMIN (CN); AFFHOLTER JOSEPH A (US); ARNOLD FRA) 1 October 1998 (1998-10-01) page 17; examples 2,5-7 -----	1-52

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