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KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
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PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,
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(54) Title: GENERATION OF PLANTS WITH ALTERED OIL CONTENT

(57) Abstract: The present invention is directed to isolated HI041 nucleic acid and protein, and to plants that display an altered oil content phenotype due to altered expression of a HI041 nucleic acid. The invention is further directed to methods of generating plants with an altered oil content phenotype.

INTERNATIONAL SEARCH REPORT

In International Application No
 Filed 03/2005/013398

<p>A. CLASSIFICATION OF SUBJECT MATTER C12N15/82 A01H5/00</p> <p>According to International Patent Classification (IPC) or to both national classification and IPC</p>											
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) C12N</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ, Sequence Search</p>											
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <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 2004/045049 A1 (ZHANG JAMES ET AL) 4 March 2004 (2004-03-04) * SEQ ID NOs: 795 and 796 * paragraph '0086!; claims; table 6 -& DATABASE Geneseq 'Online! 1 July 2004 (2004-07-01), "Thalecress transcription factor protein #398." XP002352165 retrieved from EBI accession no. GSN:AD002383 Database accession no. AD002383 ----- </td> <td>1-13</td> </tr> <tr> <td>X</td> <td> US 2003/101481 A1 (ZHANG JAMES ET AL) 29 May 2003 (2003-05-29) * SEQ ID NOs: 121 and 122 * paragraphs '0010! - '0020!; claims; table 1 -/-- </td> <td>1-13</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 2004/045049 A1 (ZHANG JAMES ET AL) 4 March 2004 (2004-03-04) * SEQ ID NOs: 795 and 796 * paragraph '0086!; claims; table 6 -& DATABASE Geneseq 'Online! 1 July 2004 (2004-07-01), "Thalecress transcription factor protein #398." XP002352165 retrieved from EBI accession no. GSN:AD002383 Database accession no. AD002383 -----	1-13	X	US 2003/101481 A1 (ZHANG JAMES ET AL) 29 May 2003 (2003-05-29) * SEQ ID NOs: 121 and 122 * paragraphs '0010! - '0020!; claims; table 1 -/--	1-13
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<p><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.</p>											
<p>* Special categories of cited documents :</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*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)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </td> <td style="vertical-align: top;"> <p>*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</p> <p>*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</p> <p>*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.</p> <p>*&* document member of the same patent family</p> </td> </tr> </table>			<p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*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)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p>	<p>*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</p> <p>*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</p> <p>*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.</p> <p>*&* document member of the same patent family</p>							
<p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*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)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p>	<p>*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</p> <p>*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</p> <p>*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.</p> <p>*&* document member of the same patent family</p>										
<p>Date of the actual completion of the international search</p> <p>3 November 2005</p>		<p>Date of mailing of the international search report</p> <p>22/11/2005</p>									
<p>Name and mailing address of the ISA</p> <p>European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016</p>		<p>Authorized officer</p> <p>Burkhardt, P</p>									

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/US2005/013398

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	-& DATABASE Geneseq 'Online! 4 December 2003 (2003-12-04), "Plant (A. thaliana) transcription factor polypeptide #61." XP002352166 retrieved from EBI accession no. GSN:ADB31889 Database accession no. ADB31889 -----	
X	EP 1 033 405 A (CERES INCORPORATED) 6 September 2000 (2000-09-06) * SEQ ID NO:65312 * paragraphs '0101!', '0102!', '2274!; example 3	1-13
X	-& DATABASE Geneseq 'Online! 18 October 2000 (2000-10-18), "Arabidopsis thaliana protein fragment SEQ ID NO: 65312." XP002352167 retrieved from EBI accession no. GSN:AAG51458 Database accession no. AAG51458 -----	1-13
X	YANAGISAWA SHUICHI: "The Dof family of plant transcription factors." TRENDS IN PLANT SCIENCE, vol. 7, no. 12, December 2002 (2002-12), pages 555-560, XP002352098 ISSN: 1360-1385 figure 2; table 2 -& DATABASE UniProt 'Online! 1 February 2005 (2005-02-01), "Dof zinc finger protein DOF5.3 (AtDOF5.3)." XP002352168 retrieved from EBI accession no. UNIPROT:DOF53_ARATH Database accession no. DOF53_ARATH abstract -----	1-13
A	WO 03/079766 A (AGRINOMICS, LLC; LIGHTNER, JONATHAN; COATE, JEREMY, E; CLENDENNEN, STE) 2 October 2003 (2003-10-02) page 7, line 6 - line 19; example 1 -----	1-15
A	WO 99/58654 A (PLANTTEC BIOTECHNOLOGIE GMBH FORSCHUNG & ENTWICKLUNG; MAX-PLANCK-GESEL) 18 November 1999 (1999-11-18) page 4, paragraph 2 page 12, paragraph 2 - page 13, paragraph 2 -----	1-15

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2005/013398

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - in written format
 - in computer readable form
 - c. time of filing/furnishing
 - contained in the international application as filed
 - filed together with the international application in computer readable form
 - furnished subsequently to this Authority for the purpose of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/013398

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004045049	A1	04-03-2004	NONE
US 2003101481	A1	29-05-2003	NONE
EP 1033405	A	06-09-2000	NONE
WO 03079766	A	02-10-2003	AU 2003224730 A1 08-10-2003 BR 0308563 A 22-02-2005 CA 2479843 A1 02-10-2003 EP 1497433 A2 19-01-2005
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