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[Continued on next page]

(54) Title: NUCLEOTIDE SEQUENCES AND CORRESPONDING POLYPEPTIDES CONFERRING MODULATED PLANT GROWTH RATE AND BIOMASS IN PLANTS

Table with 4 rows of sequence alignments. Each row includes identifiers (CeresGdna, Lead-clone, gi, CeresClone), a consensus line, and a sequence alignment with residue numbers on the right. The sequences are aligned across four different clones, showing high similarity.

(57) Abstract: The present invention relates to isolated nucleic acid molecules and their corresponding encoded polypeptides able confer the trait of modulated plant size, vegetative growth, organ number, plant architecture, growth rate, seedling vigor, growth rate, fruit and seed yield, tillering and/or biomass in plants. The present invention further relates to the use of these nucleic acid molecules and polypeptides in making transgenic plants, plant cells, plant materials or seeds of a plant having plant size, vegetative growth, organ number, plant architecture, growth rate, seedling vigor and/or biomass that are altered with respect to wild type plants grown under similar conditions

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2005/047423

A. CLASSIFICATION OF SUBJECT MATTER

INV. C12N15/82 A01H5/00 C12N15/79 C12N5/14

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

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, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 033 405 A (CERES INCORPORATED) 6 September 2000 (2000-09-06) sequence 22531	1-25
A	WO 03/013227 A (MENDEL BIOTECHNOLOGY, INC; RATCLIFFE, OLIVER; RIECHMANN, JOSE, LUIS; A) 20 February 2003 (2003-02-20) page 19, paragraph 2; claims 3,4	1-25
E	WO 2006/004955 A (CERES, INC; ALEXANDROV, NICKOLAI; BROVER, VYACHESLAV; MASCIA, PETER; F) 12 January 2006 (2006-01-12) page 2, line 26 - page 3, line 14; claims; figures	1-25



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

5 June 2007

Date of mailing of the international search report

21/08/2007

Name and mailing address of the ISA/

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Authorized officer

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/047423

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.:

1-25 (all 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: 1-25 (all partially)

relating to the isolated nucleic acid sequence of SEQ ID NO:80 and products and methods comprising said sequence.

2. claims: 1-25 (all partially)

relating to the isolated nucleic acid sequence of SEQ ID NO:90 and products and methods comprising said sequence.

3. claims: 1-25 (all partially)

relating to the isolated nucleic acid sequence of SEQ ID NO:92 and products and methods comprising said sequence.

4. claims: 1-25 (all partially)

relating to the isolated nucleic acid sequence of SEQ ID NO:98 and products and methods comprising said sequence.

5. claims: 1-25 (all partially)

relating to the isolated nucleic acid sequence of SEQ ID NO:103 and products and methods comprising said sequence.

6. claims: 1-25 (all partially)

relating to the isolated nucleic acid sequence of SEQ ID NO:109 and products and methods comprising said sequence.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/047423

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1033405	A	06-09-2000	NONE
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WO 03013227	A	20-02-2003	AU 2002313749 A1 24-02-2003
			CA 2456972 A1 20-02-2003
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			EP 1485490 A2 15-12-2004
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WO 2006004955	A	12-01-2006	NONE
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