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(54) Title: BACKBONE-FREE LOW TRANSGENE COPY TRANSGENIC PLANTS

(57) Abstract: Methods and compositions reduce copy number of transgenes and minimizing vector backbone sequences in plant transformation. Bacterial strains including Agrobacterium strains with T-DNA integrated into the chromosomal DNA reduce the copy number and vector backbone sequences. Chromosomal integration vectors to integrate T-DNA into a specific locus of Agrobacterium chromosome are disclosed.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	US 2007/074314 A1 (YE XUDONG [US] ET AL) 29 March 2007 (2007-03-29) sentences 7-20, paragraph 43	1-20
X	LEE LAN-YING: "Integration of genes into the chromosome of Agrobacterium tumefaciens C58" METHODS IN MOLECULAR BIOLOGY HUMANA PRESS INC, 999 RIVERVIEW DR, STE 208, TOTOWA, NJ 07512-1165 USA SERIES : METHODS IN MOLECULAR BIOLOGY (ISSN 1064-3745(PRINT)), 1 June 2006 (2006-06-01), pages 55-66, XP009102882 ISSN: 1-58829-536-2(H) the whole document	8, 11-20

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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.
X	LEE LAN-YING ET AL: "Novel constructions to enable the integration of genes into the Agrobacterium tumefaciens C58 chromosome" MOLECULAR PLANT-MICROBE INTERACTIONS, vol . 14, no. 4, April 2001 (2001-04) , pages 577-579 , XP002487761 ISSN: 0894-0282 cited in the application the whole document	8, 11-20
X	MIRANDA A. ET AL. : "AGROBACTERIUM-TUMEFACIENS TRANSFERS EXTREMELY LONG T DNAs BY A UNIDIRECTIONAL MECHANISM" JOURNAL OF BACTERIOLOGY, vol . 174, no. 7, 1992, pages 2288-2297, XP002487763 ISSN: 0021-9193 page 2290, left-hand column , paragraph 2 ; figure 2	17
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A	SUGITA K. ET AL. : "A transformation vector for the production of marker-free transgenic plants containing a single copy transgene at high frequency" PLANT JOURNAL, BLACKWELL SCIENTIFIC PUBLICATIONS, OXFORD, GB , vol . 22, no. 5, 1 June 2000 (2000-06-01) , pages 461-469 , XP002173578 ISSN: 0960-7412 the whole document	
T	LEE LAN-YING ET AL: "T-DNA binary vectors and systems" PLANT PHYSIOLOGY (ROCKVILLE) , vol . 146, no. 2, February 2008 (2008-02) , pages 325-332, XP002487764 ISSN: 0032-0889 page 330, left-hand column , paragraph 1	

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007074314	A1	29-03-2007	NONE