Title (en)

MSCA1 NUCLEOTIDE SEQUENCES IMPACTING PLANT MALE FERTILITY AND METHOD OF USING SAME

Title (de)

MSCA1-NUKLEOTIDSEQUENZEN MIT AUSWIRKUNG AUF MÄNNLICHE FRUCHTBARKEIT BEI PFLANZEN UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)

SÉQUENCES DE NUCLÉOTIDES DE MSCA1 AFFECTANT LA FERTILITÉ MÂLE DES PLANTES ET LEUR PROCÉDÉ D'UTILISATION

Publication

EP 2173883 A1 20100414 (EN)

Application

EP 07813738 A 20070803

Priority

US 2007075157 W 20070803

Abstract (en)

[origin: WO2009020458A1] Nucleotide sequences of a Msca1 gene, critical to male fertility in plants are described, with DNA molecule and amino acid sequences set forth. Promoter sequences and their essential regions are also identified. The nucleotide sequences are useful in impacting male fertility in plants.

IPC 8 full level

C12N 15/82 (2006.01); **A01H 5/00** (2006.01); **A01H 5/10** (2006.01); **C07K 14/415** (2006.01); **C12N 15/29** (2006.01)

CPC (source: EP)

C07K 14/415 (2013.01); **C12N 15/8231** (2013.01); **C12N 15/8289** (2013.01)

Citation (search report)

See references of WO 2009020458A1

Citation (examination)

TIMOFEJEVA, L. ET AL.: "Cystological characterization and allelism testing of anther developmental mutants identified in a screen of maize male sterile lines", GENES, GENOMES, GENETICS, vol. 3, February 2013 (2013-02-01), pages 231 - 249

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2009020458 A1 20090212; AR 064085 A1 20090311; AR 101779 A2 20170111; BR PI0722195 A2 20121009; BR PI0722195 B1 20180130; CA 2695530 A1 20090212; CA 2695530 C 20160705; CL 2008000072 A1 20090206; CN 101802201 A 20100811; EA 201070229 A1 20100830; EP 2173883 A1 20100414; EP 2631243 A2 20130828; EP 2631243 A3 20131120; MX 2010001347 A 20100301; ZA 201000532 B 20120125

DOCDB simple family (application)

US 2007075157 W 20070803; AR P070105365 A 20071130; AR P150102856 A 20150907; BR PI0722195 A 20070803; CA 2695530 A 20070803; CL 2008000072 A 20080110; CN 200780100132 A 20070803; EA 201070229 A 20070803; EP 07813738 A 20070803; EP 12168569 A 20070803; MX 2010001347 A 20070803; ZA 201000532 A 20100125