

Title (en)
PROTEIN EXPRESSION IN FLORAL CELLS

Title (de)
PROTEINEXPRESSION IN BLÜTENZELLEN

Title (fr)
EXPRESSION PROTEIQUE DANS DES CELLULES FLORALES

Publication
EP 1062352 A2 20001227 (EN)

Application
EP 99908716 A 19990319

Priority
• CA 9900237 W 19990319
• US 7872898 P 19980320

Abstract (en)
[origin: WO9949063A1] This invention is directed to a method for the expression of a gene of interest, or a chimeric or modified gene allowing the localization of a protein, protein fusion, peptide or fragment of interest within the extracellular domain of a floral cell. This method comprises preparing a construct comprising a promoter sequence capable of expressing a gene encoding the protein, protein fusion, peptide, or fragment of interest, within the floral cell; a translated sequence of the protein, protein fusion, peptide, or fragment of interest, which is localized within the extracellular domain of a floral cell; a gene that encodes the protein, protein fusion, peptide, or fragment of interest; and a terminator sequence, and transforming a plant. Plants transformed with such a construct are characterized as having a protein, fragment thereof, or peptide of interest on the surface of a floral cell. Such localized proteins or peptides may be used for the purposes of peptide display, mediating plant sterility, modifying pollen-pistil interactions, altering pollen for insect consumption etc.

IPC 1-7
C12N 15/82; **C12N 15/62**; **C07K 17/02**; **A01H 5/00**

IPC 8 full level
C07K 14/415 (2006.01); **C07K 14/81** (2006.01); **C12N 9/64** (2006.01); **C12N 15/10** (2006.01); **C12N 15/82** (2006.01); **C40B 40/02** (2006.01)

CPC (source: EP)
C07K 14/415 (2013.01); **C07K 14/8139** (2013.01); **C12N 9/641** (2013.01); **C12N 15/1037** (2013.01); **C12N 15/8216** (2013.01); **C12N 15/8242** (2013.01); **C12N 15/8257** (2013.01); **C12N 15/8261** (2013.01); **C12N 15/8287** (2013.01); **C40B 40/02** (2013.01); **C07K 2319/00** (2013.01); **Y02A 40/146** (2017.12)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9949063 A1 19990930; **WO 9949063 B1 20000106**; AU 2822999 A 19991018; CA 2325570 A1 19990930; EP 1062352 A2 20001227

DOCDB simple family (application)
CA 9900237 W 19990319; AU 2822999 A 19990319; CA 2325570 A 19990319; EP 99908716 A 19990319