

Title (en)

REGULATED ETHYLENE SENSITIVITY TO CONTROL FLOWER LONGEVITY IN A PLANT

Title (de)

REGULIERTE ETHYLENEMPFLINDLICHKEIT ZUR STEUERUNG DER LANGLEBIGKEIT DER BLÜTEN EINER PFLANZE

Title (fr)

SENSIBILITE A L'ETHYLENE REGULEE EN VUE DE REGULER LA LONGEVITE DES FLEURS DANS UNE PLANTE

Publication

EP 1501345 A1 20050202 (EN)

Application

EP 03747050 A 20030422

Priority

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- US 0234566 W 20021028

Abstract (en)

[origin: CA2482460A1] Provided is the tissue specific manipulation of the EIN2 and/or EIN3 ethylene~signaling genes, permitting the controlled regulation of flower and/or leaf abscission in a commercially useful plant, since flower and leaf abscission are positively regulated by the plant hormone ethylene. In particular, controlled expression of the EIN2 gene, permits reduction of ear ly- season flower abscission. The altered expression of ethylene signaling gene(s) enhances the commercial value of the plant, thereby producing a more productive and/or more efficiently harvested crop. Further provided are new insights into the mechanisms involved in the ethylene signaling pathway.</SD OAB>

IPC 1-7

A01H 1/00; **A01H 5/00**; **C12N 5/00**; **C12N 5/02**; **C12N 15/82**; **C07H 21/02**; **C07H 21/04**

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