

Title (en)

METHOD FOR THE PRODUCTION OF LEGUMINOUS PLANTS WITH INCREASED PROTEIN CONTENT AND LONGER SEED FILLING DURATION

Title (de)

VERFAHREN ZUR HERSTELLUNG VON LEGUMINOSEN MIT ERHÖHTEM PROTEINGEHALT BEI VERLÄNGERTER SAMENFÜLLUNGSDAUER

Title (fr)

PROCEDE DE PRODUCTION DE LEGUMINEUSES A TENEUR EN PROTEINES ET DUREE DE REMPLISSAGE DU GRAIN SUPERIEURES

Publication

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Application

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Abstract (en)

[origin: WO0175128A2] The invention relates to a method for the production of leguminous plants with increased protein content in the seeds and longer seed filling duration, by means of introduction of recombinant DNA molecules. Said recombinant DNA molecules are introduced into the plant, by means of a transformation system and comprise a DNA sequence from the plant, expressed in plants, the genetic product of which inhibits a protein in the seed with the enzymatic activity of an ADP glucose pyrophosphorylase (AGP) and/or a plastid phosphoglucomutase (pPGM) and, optionally, the regulatory sequence of a seed-specific promoter in leguminous plants. Furthermore, at least one selection marker gene is separately transferred, which is subsequently removed again. The plants which display an increased protein content and a lengthier seed-filling duration are chosen.

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