

Title (en)

UNIVERSAL CHLOROPLAST INTEGRATION AND EXPRESSION VECTORS AND TRANSFORMED PLANTS

Title (de)

UNIVERSELLE INTEGRATIONS- UND EXPRESSIONSVEKTOREN FÜR CHLOROPLASTEN UND TRANSFORMIERTE PFLANZEN

Title (fr)

VECTEURS UNIVERSELS D'INTEGRATION ET D'EXPRESSION DE CHLOROPLASTES ET PLANTES TRANSFORMEES

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Application

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Abstract (en)

[origin: EP2319933A1] The invention provides universal chloroplast integration and expression vectors which are competent to stably transform and integrate genes of interest into chloroplast genome of multiple species of plants. Transformed plants and their progeny are provided. Monocotyledonous and dicotyledonous plants are transformed which have never been transformed heretofore. Plants transformed with a synthetic gene express valuable biodegradable protein-based polymers (PBPs). Transformed plants produce high value molecules. Resistance is provided to agricultural crops against the major classes of chemical herbicides. Herbicide resistance is used as a lethal selectable marker for chloroplast transformation. The transformed plants are capable of expressing in addition to the targeted trait, a desirable, secondary non-targeted trait. Insect resistance is provided to transformed plants, both against insects that are susceptible to Bt toxins and against insects that have developed resistance to Bt toxins.

IPC 8 full level

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