

Title (en)
DNA CONSTRUCT AND ITS USE

Title (de)
DNS KONSTRUKT UND DESSEN VERWENDUNG

Title (fr)
CONSTRUCTION D'ADN ET SON UTILISATION

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Application
EP 00966616 A 20000913

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Abstract (en)
[origin: WO0120011A1] A DNA construct comprising in the 5' to 3' direction of transcription operably linked a promoter region directing transcription to the seed of an oilseed plant, a nucleotide sequence coding for at least one peptide with enzyme activity necessary for keto group containing xanthophyll production and esterification in an oilseed plant and a transcriptional termination region is disclosed. The DNA construct may additionally comprise a nucleotide sequence coding for a transit peptide directing the translated fusion polypeptide to the chloroplast of the oilseed plant. The peptide with enzyme activity is preferably a peptide with beta -carotene C-4-oxygenase activity, e.g. from the alga *<i>Haematococcus pluvialis</i>*. Comprised by the invention are also a transgenic oilseed plant cell, e.g. of rape, sunflower, soybean or mustard origin, and a transgenic oilseed plant-produced xanthophyll, such as canthaxanthin or astaxanthin, and also astaxanthin esters.

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