

Title (en)

PYRUVATE CARBOXYLASE HAVING A FEEDBACK-RESISTANT MUTATION, ENCODING DNA, PLASMIDES, AND MICROORGANISM FOR THE PRODUCTION THEREOF, AND METHODS FOR THE PRODUCTION OF PRODUCTS THE BIOSYNTHESIS OF WHICH INCLUDES OXALOACETATE AS PRECURSOR

Title (de)

PYRUVATCARBOXYLASE MIT EINER FEEDBACK-RESISTENZ VERURSACHENDE MUTATION, KODIERENDE DNA, PLASMIDE, SOWIE MIGROORGANISMUS ZUR PRODUKTION UND VERFAHREN ZUR HERSTELLUNG VON PRODUKTEN, DEREN BIOSYNTHÈSE OXALACETAT ALS VORSTUFE BEINHALTET

Title (fr)

PYRUVATE CARBOXYLASE PRÉSENTANT UNE MUTATION À L'ORIGINE D'UNE RÉSISTANCE DE RÉTRACTION, ADN CODANT, PLASMIDES, ET MICRO-ORGANISME DE PRODUCTION ET PROCÉDÉ DE PRÉPARATION DE PRODUITS DONT LA BIOSYNTHÈSE COMPREND L'OXALACÉTATE COMME PRÉCURSEUR

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Abstract (en)

[origin: WO2018210359A1] The invention relates to pyruvate carboxylase and a pyruvate carboxylase-encoding DNA, a plasmid containing said DNA and a microorganism for the production thereof, and to methods for the production of products the biosynthesis of which includes oxaloacetate as a precursor, and to a chromosome. The invention makes a DNA available that codes for a pyruvate carboxylase having an at least 70% sequence identity with sequence no. 1 and where the triplet that codes for isoleucine-1012 is replaced by a serine-encoding triplet in positions 3034-3036. The expression of said gene results in a pyruvate carboxylase by means of which the yield of the reaction of metabolic products derived from oxaloacetate is by 7% higher with respect to the strain containing the native Pyc.

IPC 8 full level

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