

Title (en)

METHOD FOR PRODUCING VECTORS CONTAINING A GENE THAT CODES FOR AN ENZYME HAVING REDUCED OR SWITCHED-OFF FEEDBACK INHIBITION, AND USE THEREOF FOR PRODUCING AMINO ACIDS AND NUCLEOTIDES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON VEKTOREN ENTHALTEND EIN FÜR IN SEINER FEEDBACK-INHIBIERUNG GEMINDERTES ODER AUSGESCHALTETES ENZYM KODIERENDES GEN UND DEREN VERWENDUNG FÜR DIE HERSTELLUNG VON AMINOSÄUREN UND NUKLEOTIDEN

Title (fr)

PROCÉDÉ DE PRÉPARATION DE VECTEURS CONTENANT UN GÈNE CODANT UNE ENZYME, ATTÉNUÉ OU DÉSACTIVÉ POUR L'INHIBITION DE SON FEED-BACK, ET UTILISATION DESDITS VECTEURS POUR LA PRÉPARATION D'ACIDES AMINÉS ET DE NUCLÉOTIDES

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Abstract (en)

[origin: WO2014029376A1] The invention relates to a method for producing vectors containing a gene that codes for an enzyme having reduced or switched-off feedback inhibition, and use thereof for producing amino acids and nucleotides. According to the invention genes that code for feedback-inhibited enzymes are mutagenised in vitro, in a further step are ligated into vectors, in a further step each vector is transformed into a microorganism that contains a metabolite sensor, which at increased metabolite concentration causes the synthesis of a fluorescent protein, after which microorganisms having an increased or the highest fluorescence are selected, and the vectors that contain a gene coding for an enzyme having reduced or switched-off feedback inhibition are isolated from microorganisms having an increased or the highest fluorescence.

IPC 8 full level

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