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ABSTRACT

The present invention is directed to a gene which is related to a D-N-carbamoyl- α -amino acid amidohydrolase which is an enzyme capable of converting D-N-carbamoyl- α -amino acids into D- α -amino acids; a recombinant plasmid in which a DNA fragment containing the gene is incorporated into a vector; a microorganism belonging to the genus Escherichia, Pseudomonas, Flavobacterium, Bacillus, Serratia, Corynebacterium, or Brevibacterium, which is transformed by incorporating the recombinant plasmid thereinto; a process for the production of D-N-carbamoyl- α -amino acid amidohydrolases, comprising the steps of cultivating the transformed microorganism and collecting the desired product therefrom; a D-N-carbamoyl- α -amino acid amidohydrolase obtained by the method; and a process for the production of D- α -amino acids with the aid of an action of the enzyme.

The D-N-carbamoyl- α -amino acid amidohydrolase can be fixed on a support for immobilization and used as an immobilized enzyme.

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