

ABSTRACT

A polynucleotide encoding an amino acid sequence represented by SEQ ID NO: 1, 3, or 5; a protein having an amino acid sequence represented by SEQ ID NO: 1, 3, or 5; a method for producing an α -oxocarboxylic acid compound, which comprises the step of reacting a protein of the present invention with an α -hydroxycarboxylic acid compound; and a method for producing an L- α -amino acid compound, which comprises the step (1) of reacting the present invented protein with an α -hydroxycarboxylic acid compound to obtain a corresponding α -oxocarboxylic acid compound, and the step of reacting a protein having the ability to aminate an α -oxocarboxylic acid compound and convert the same into a corresponding L- α -amino acid compound with the α -oxocarboxylic acid compound obtained in the step (1) to obtain a corresponding L- α -amino acid compound; and the like.