

METHOD FOR CONSTRUCTING CHIMERIC PLASMID LIBRARY

[Abstract]

The present invention addresses the problem of providing a novel method which is for preparing a DNA fragment for microbial cell transformation, and by which the combinatorial library of a long-chain DNA can be efficiently constructed and confirmation of the genotype of the obtained clone is facilitated. The present invention is a method for preparing a DNA fragment, which is for microbial cell transformation and has at least one insert DNA unit that includes a DNA containing an effective replication origin in a host microorganism and an insert DNA in which unit DNAs are linked, the method being characterized by including: (A) a step for preparing, through an OGAB method, a plurality of types of plasmids having an insert DNA unit in which a plurality of types of unit DNAs capable of being linked in a specific linking order are linked; (B) a step for decomposing a plasmid into unit DNAs by treating the plurality of types of plasmids prepared in the step (A) with a restriction enzyme suitable for each plasmid and preparing a mixed liquid of a plurality of types of unit DNAs; and (C) a step for preparing a long-chain DNA fragment by re-assembling the unit DNAs through the OGAB method by using the mixed liquid of a plurality of types of unit DNAs obtained in the step (B).

(No Suitable Figure)