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ABSTRACT

It is intended to provide a breeding method whereby a lipid-producing fungus belonging to the genus *Mortierella* can be effectively and efficiently bred without resort to antibiotics. Transformation is carried out with the use of an auxotroph (for example, uracil auxotroph) of a fungus belonging to the *Mortierella* as a host. More specifically speaking, a gene compensating for the auxotrophy, which is employed as a marker, is transferred into the host (the gene transfer step). Next, a transformant is selected by using the recovery from the auxotrophy as the marker (the selection step). The lipid-producing fungus may be *M. aplina*, for example.