

IDENTIFICATION OF GENES

Abstract

5 A method for identifying a microorganism having a reduced
adaptation to a particular environment comprising the steps of: (1)
providing a plurality of microorganisms each of which is independently
mutated by the insertional of a gene with a nucleic acid comprising a unique
marker sequence so that each mutant contains a different marker sequence,
10 or clones of the said microorganism; (2) providing individually a stored
sample of each mutant produced by step (1) and providing individually
stored nucleic acid comprising the unique marker sequence from each
individual mutant; (3) introducing a plurality of mutants produced by step
(1) into the said particular environment and allowing those microorganisms
15 which are able to do so to grow in the said environment; (4) retrieving
microorganisms from the said environment or a selected part thereof and
isolating the nucleic acid from the retrieved microorganisms; (5) comparing
any marker sequences in the nucleic acid isolated in step (4) to the unique
marker sequence of each individual mutant stored as in step (2); and (6)
20 selecting an individual mutant which does not contain any of the marker
sequences as isolated in step (4).

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No suitable figure



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