

METHOD FOR DESIGNING MUTANT PRIMER

Abstract

Provided is a novel method for designing a mutant primer in which a nonspecific amplification caused by a primer dimer or loop structure scarcely occurs. A method for designing a primer having a mutation introduced thereinto, said method comprising a mutation introduction site-selection step for selecting, as a mutation introduction site, one or more nucleotide residues, said nucleotide residue(s) being contained in a basic primer sequence and satisfying one or more requirements selected from the group consisting of the following requirements (1) to (4): (1) a nucleotide residue possibly contributing to the formation of a primer dimer; (2) a nucleotide residue possibly contributing to the formation of a loop structure in a single primer molecule; (3) when it is predicted that a primer comprising the aforesaid basic primer sequence forms a primer dimer, a nucleotide residue positioned in a region other than a region to which the primer is complementarily or non-complementarily hybridizable; and (4) when it is predicted that a primer comprising the aforesaid basic primer sequence forms a loop structure in a single primer molecule, a nucleotide residue positioned in a region other than a region which forms the loop structure.

[Fig. 16]