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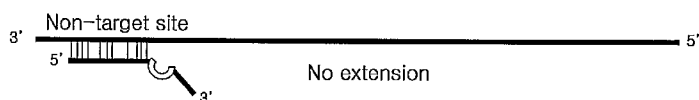
[Continued on next page]

(54) Title: PROCESSES USING DUAL SPECIFICITY OLIGONUCLEOTIDE AND DUAL SPECIFICITY OLIGONUCLEOTIDE

High Hybridization Specificity of Dual Specificity Oligonucleotide

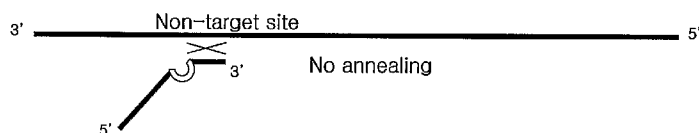
(a) No Extension

Extension does not occur when the 5'-end portion, yet not the 3'-end portion, is annealed to the template



(b) No Annealing

Annealing does not occur when the 3'-end portion, yet not the 5'-end portion, has a sequence complementary to the non-target site



(c) Extension

Both 5'- and 3'-end portions are annealed to the target sequence and hence successful extension.



(57) Abstract: The present invention relates to various processes by a template-dependent extension reaction using a dual specificity oligonucleotide and a dual specificity oligonucleotide composed of three different T_m portions therefor. Demonstrated in the present invention are the features of the dual specificity oligonucleotide, which are high hybridization specificity and mismatch tolerance.

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