

ABSTRACT

TD PROBE AND ITS USES

The present invention relates to a target discriminative probe (TD probe) and its uses or applications. The TD probe is hybridized with a target nucleic acid sequence through both of the 5'-second hybridization portion and the 3'-first hybridization portion. When the TD probe is hybridized with a non-target nucleic acid sequence, both the 5'-second hybridization portion and the separation portion are not hybridized with the non-target nucleic acid sequence such that both portions form a single strand due to its low T_m value. As such, the TD probe exhibits distinctly different hybridization patterns for each of the target and the non-target nucleic acid sequence, discriminating the target nucleic acid sequence from the non-target nucleic acid sequence with much higher specificity.

Fig.1