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定量PCR的非同源对照模板的构建 Generation of Non-homologous Competitor DNA for Competitive Q uantitative PCR

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摘要 建立了HCVRNA和hTERTmRNA的竞争定量PCR系统。对照模板的构建方法是：利用计算机辅助优选设计连接引物，低严紧型扩增大肠杆菌DNA，回收并克隆预期的DNA片段。该片段与靶序列除两端引物序列完全相同外，无同源性，因此可作为非同源对照模板。这种构建非同源对照模板的方法，简便易行，适应面广。

Abstract: It cannot be neglected sometimes that the error caus ed by the “heteroduplex DNA” that occurs accompanying with the homologous comp etitor DNA which is usually used in the competitive quantitative PCR (CQ-PCR). H ere a method is developed to generate non-homologous competitor DNA for CQ-PCR d etection of the interest DNA, based on low-stringency amplification of cross-spe cies’ DNA with a pair of linker-primers which are designed according to partly h omologous sites of the interest DNA primers in cross-species’ DNA. With the meth od, the non-homologous competitor DNAs for the HCV RNA and hTERT mRNA are genera ted from E. coli DNA respectively, then the CQ-PCR systems are established for t he 2 species RNAs with the RRTR (Repeated reverse transcription reaction). The method is multi-adaptive and easy to apply.

关键词 竞争定量PCR 对照模板 异源双链 Keywords competitive quantitative PCR competitor DNA hete roduplex DNA

分类号

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Abstract

Key words

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