微量RNA的cDNA PCR文库的构建 The Construction of cDNA PCR Library from a Small Amount of RNA

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摘要 使用PCR(polymerase chain reaction)技术,调制了mRNA的cDNAPCR文库,实验证明,cDNAPCR文库能使原cDNA的量放大数百倍。同时,使用人体K562培养细胞的总RNA,对cDNAPCR文库法和反转录中的β-Actin的cDNA量进行了比较,cDNAPCR文库法中的β-Actin的cDNA量大大高于反转录中的β-Actin的cDNA量。使用75pg的人体K562培养细胞的总RNA,调制成50μl的cDNAPCR文库,使用1μl的cDNAPCR文库进行PCR反应时,可对文库中的β-Actin的cDNA进行PCR检测。因此,cDNAPCR文库显示了良好的信息放大性能。

Abstract: By the method of PCR (Polymerase Chain Reaction), we have constructed the cDNA PCR library from mRNA. The cDNA PCR library can amplify the original cDNA up to hundreds of times. With the total RNA of human K562 cultured cell, the cDNA of β -Actin has been obtained by the methods of cDNA PCR library and reverse transcription respectively. As contrast, the amount of β -Actin's cDNA from the cDNA PCR library is much higher than from reverse transcription. 75pg total RNA of human K562 Cultured cell is employed to construct 50 μ l cDNA PCR library, and the cDNA of β -Actin can even be detected by using 1μ l of the library as template to perform the PCR. Therefore cDNA PCR library can greatly enlarge the amount of information.

关键词PCRcDNAPCR文库反转录反应 KeywordsPCRcDNA PCR libraryreverse transcription分类号

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