定量PCR

Real-time PCR

【儀器原理及功能】

Real-time PCR, also known as kinetic PCR, qPCR, qRT-PCR and RT-qPCR, is quantitative PCR method for the determination of cope number of PCR templates such as DNA or cDNA in a PCR reaction. There are two flavors of real-time PCR: probe-based and intercalator-based. Probe-based real-time PCR, also known as TaqMan PCR, requires a pair of PCR primers as regular PCR does, an additional fluorogenic probe which is an oligonucleotide with both a reporter fluorescent dye and a quencher dye attached. Intercalator-based method, also known as SYBR Green method, requires a double-stranded DNA dye in the PCR reaction which binds to newly synthesized double-stranded DNA and gives fluorescence. TaqMan method is more accurate and reliable than SYBR green method, but also more expensive.

【儀器說明】

儀器型號：美國Applied Biosystems 7500 Real-time PCR System
利用偵測PCR反應之增幅趨勢，目標DNA和基因表現量分析

【經費來源】

校務基金補助

【購價】

1,754,000元

【服務項目】

基因定量分析

【申請辦法】

須提前一日申請，每星期一至五上班時間，請電(05)2717771

【樣品準備須知】

1樣品自備

2耗材代購

【收費標準】

免收費

【連絡人】

顏永福 Tel：(05)2717751

【儀器室地點】

國立嘉義大學農業生物技術研究所精密儀器

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