定量PCR

Real-time PCR

【儀器原理及功能】【正常】

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，請電莊慧文教授

電話：05-2717756

【樣品準備須知】

1.樣品自備

2.耗材代購

【收費標準】

免收費

【聯絡方式】

農業生物科技學系暨研究所　莊慧文教授　電話：05-2717756

【儀器室地點】

國立嘉義大學農業生物科技學系精密儀器室

【儀器之 JPG 圖檔】