PCR一步法构建融合蛋白基因fpgConstruction of a Fused fpg Gene by Using TP-PCR Method

刘 和1,陈英旭1,张文波2,金勇丰2LIU He1,CHEN Ying-xu1,ZHANG Wen-bo2,JIN Yongfeng2

1. 浙江大学环境工程系, 杭州310029; 2. 浙江大学生物化学研究所, 杭州3100291. Department of Environmental Engineering, Zhejiang Uinversity, Hangzhou, 310029, China; 2. Institute of Biochemistry, Zhejiang University, Hangzhou, 310029, China

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采用一种不需要限制核酸酶和连接酶的新方法——"PCR一步法"将芳香烃化合物降解的关键基因pheB和绿色荧光 蛋白编码基因gfp融合,构建得到融合蛋白基因fpg。该方法在一个PCR反应体系中通过三个引物、两个模板扩增得▶浏览反馈信息 到一个含有中间柔性肽段-Gly4Ser-的融合基因fpg。本文研究结果表明,PCR一步法是一种快速方便的构建融合基 因的方法。Abstract: TP-PCR, a method developed for fusion gene construction without the use of endonuclease and ligase, was performed to construct a fused fpg gene. The TP-PCR reaction system contained three primers and two templates and resulting PCR product, fused fpg gene, consisted of three sections: pheB gene, which was responsible for catechol 2,3-dioxygenase, gfp gene for GFP protein and the intermediate ligation segment which was designed for the correct expression of the fusion gene. The result in this paper showed that the TP-PCR method is one of rapid and convenient methods for fused gene construction.

关键词 PCR一步法 邻苯二酚双加氧酶 绿色荧光蛋白 融合基因 Key words TP-PCR Catechol 2 3dioxygenase green fluorescent protein fusion gene 分类号

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- 刘和
- 陈英旭
- 张文波
- 金勇丰LIU He
- CHEN Ying-xu
- ZHANG Wen-bo
- JIN Yong-feng

Abstract

Key words

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