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畜牧兽医

鸡球虫微线基因mic2-7h在大肠杆菌中的表达

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摘要：

本文在大肠杆菌中表达了鸡球虫孢子化7h微线基因mic2-7h.质粒pmic2-7h经AatⅡ酶切线化,用SI核酸酶切平DNA分子,再用NotⅠ切出mic2-7h片段,插入表达质粒pET28-a(+)的6xHis下游NheⅠ处构建成表达载体pET28-mic2-7h.IPTG诱导表达后,经SDS-PAGE分析表明表达的重组蛋白大小为45kD,约比理论推算值(37kD)小,但Western-blotting杂交表明重组蛋白能与兔抗Etmic-2抗体反应.这进一步说明了Mic2-7h可能是Etmic-2的一种蛋白异形体.

关键词： 柔嫩艾美耳球虫 微线基因mic2-7h 大肠杆菌 基因表达

Expression of Microneme Gene mic2-7h in E. Coli

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Abstract:

Abstract This paper report that mic2-7h gene was expressed in E. Coli. Fragment mic2-7h was excisedwith Aat Ⅱ and Not Ⅰ endonuclease from pmic2-7h, and in order to correct reading frame ,5' of mic2-7h wastreat with S1 endonuclease. Fragment of mic2-7h insert into Nhe Ⅰ site of pET28a (+),and then expressionvector pET28-mic2-7h was constructed. SDS-PAGE analysis suggested that the bacteria containing the pET-mic2-7h plasmid produce a recombinent protein of 45kD as it was induced by IPTG. Western blotting indicat-ed that reconbinant protein could react with rabbit against EtMIC-2. Property of SDS-PAGE and antigen-an-tobody reaction indicated that MIC2-7h may be a protein isoform of EtMIC-2.

Keywords: Eimeria tenella Microneme mic2-7h E. Coli Gene expression

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