

论著

# 人细胞色素P450 2C9 cDNA 的克隆、鉴定及真核细胞表达重组质粒的构建

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**摘要** 从人肝组织中提取总RNA,用RT-PCR方法扩增人细胞色素P450 2C9的cDNA。以T-A克隆方法将该基因的cDNA连接到pGEM-3Z质粒上,然后通过内切酶图谱分析及部分序列分析加以鉴定,结果显示克隆片段具有人细胞色素P450 2C9内切酶图谱和核苷酸序列,该片段含5'端和3'端部分非编码区及完整的编码区。最后将该cDNA片段连接到哺乳动物细胞的表达质粒pREP9中。为建立表达人细胞色素P4502C9基因的细胞系打下了基础。

**关键词** [细胞色素P450](#) [基因克隆](#) [RT-PCR](#) [T-A克隆](#)

## CLONING AND IDENTIFICATION OF HUMAN CYTOCHROME P450 2C9 cDNA AND CONSTRUCTION OF ITS MAMMALIAN CELL EXPRESSION PLASMID

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**Abstract** With reverse transcription polymerase chain reaction (RT-PCR) and DNA recombinant technique , a full length cDNA encoding the monooxygenase cytochrome P450 2C9 from human liver was cloned into a plasmid pGEM23Z. The cDNA segment was analyzed by restriction enzyme mapping and DNA sequencing , and was confirmed to be nothing other than CYP 2C9 cDNA. Then the CYP 2C9 cDNA was subcloned into a mammalian expression vector , ready for development of the cell line expressing CYP 2C9.

**Keywords** [Human cytochrome P450](#) [cDNA Cloning](#) [RT-PCR](#) [T2A cloning](#)

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