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乌拉尔甘草HMGR基因cDNA的克隆与序列分析

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中文摘要:目的: 对乌拉尔甘草3-羟基-3-甲基戊二酰辅酶A还原酶(3-hydroxy-3methylglutary CoA reductase,HMGR) 的cDNA克隆并 中义病要计时产岛与邓尔市早少是本于中基尺。推翻的少点原则:"nytonys-memygunary Co. recursor. Industry inc.Nax.Rep 通过行序列分析。 力法 根据形式的围坡部中的支持,他物种HMGR(nc)DNARC来存设计划物,利用圆端穿,由natkx) inc.Nax.Rep 进程下处计算机中原料。 对于最后,对于最后的基层对别用LAST进行产则比对。ORF Finder 引找开发阅读推,Prosite分析蛋白质的基层特别域。Clustal Xt.对合有HMCR的场景基的产身,并很重进化树。 结果,得到1个全长为 1822 bp的MRG的CDNAP的产者们 722 bp的或该是化penreding frame,ORF)。编码73个复基像。并看出一致的成功。 262 为一致性分别 为84%。76%,总验、对甘草HMGR基因的cDNA进行了克隆、为进一步研究3-羟基3-甲基度二酰辅酶A在甘草酸生物合成途径中的作用提供了理论依据。

中文关键词:甘草 HMGR RACE

${\bf Cloning\ and\ characterization\ of\ 3-hydroxy-3-methylglutary\ CoA\ reductase\ cDNA\ of\ {\it Glycyrrhiza}}$

Abstract:Objective: To clone and analysis the sequence of 3-hydroxy-3-methylglutary CoA reductase (HMGR) cDNA from Glycyrrhiza uralensis. Method: The primers were designed based on the conservative region of HMGR nucleic acids sequence from public database. The target gene was obtained from not of G. uralensis by use of homologous cDNA amplificati on and RACE technologies. The sequence alignment was performed using BLAST. The open reading frame was identified by use of the ORF Finder. The protent ondnaiss were defined by use of Prosite software. Clustal was used to conduct multiple amino acid sequence alignment and MEGA 5.0 was used to conduct the phylogenetic tree. Result: The GuHMGR CDNA sequence was obtained contains: 18 ±2 by contains a 17 ±2 by ORF, encoding 573 amino acids with 3-hydroxy-3-methylglutary CoA reductases family profile. Deduced amino acid sequence had 84% and 76% homology to the amino acid sequence of Pisums aristims. Medicago transcatula. Conclusion: The cloning of 3-hydroxy-3-methylglutary CoA reductase (HMGR) cDNA will provide a foundation for exploring the function of HMGR in glycyrrhizin biosynthesis.

keywords: Glycyrrhiza uralensis HMGR RACE

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