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虫草属EST-SSR标记系统的建立研究

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中文播要:目的: 通过球孢虫草、帕虫草EST设计EST-SSR-训物,建立虫草属EST-SSR标记系统。 方法: 从NCBI公共数据库下载获得虫草EST-利用Sequece Sciners 1.2软件去除冗余序列并设计引物,进行PAGE电泳。 结果: 通过去除EST-总序列中低质量的和冗余的序列后,得到全长为2.953 173 的同约-556条元冗余球孢虫草EST。从中次通出718-NEST-SSR-介于616条EST中山地观等走到. 88%。平均为布莱米是每40分的出现一个主体预量至少两个41分个人是出现最多的重复类型。 她卓尼艺于太元东后得到 365条元冗余EST,共合有1117-YEST-SSR-用现第半为8.95%。机理最多的重复类型是A核苷酸重复类型。 她卓尼艺于太元东后得到 365条元余EST,共合有1117-YEST-SSR-用现据率为8.95%。机理最多的重复类型是A核苷酸重复类型。根据报程生享任于SSR-形成分别。 2005年110年的一次10 成50对引纳合作增产物的引物,34对占总设计引物数的68%。根据独立生产证的基本。《统师范记士》和"新元元》的"为50对引纳有扩增产物的引物,34对占总设计引物数的97.5%。基于SSE标记进行聚务分析,7单点专定性型均成分开且分为专文。结论:虫阜原EST-SSE机现频率较高、类型较产业、多态性潜域效率,具有效高的利用价值。球电卓和邮电量EST开发的SSE标记走电影届校好的转移性与通用性、可以很好的应用于虫草种问遗传关系的研究。应用虫草物种EST建立分子标记是一条简便而又有效的途径。

中文关键词: <u>虫草属 球孢虫草 蛹虫草 EST-SSR 引物设计</u>

Study of EST-SSR marker system of Cordyceps

Abstract;Objective: To establish the EST-SSR marker system for Cordyceps by using ESTs of C. bassiana and C. militaris. Method: The ESTs of Cordyceps were downloaded from the public database of NCBI, and the redundant ESTs with low quality were removed. The EST-SSR primers were designed by Sequece Seiner 1.2. And the primers were screened through PAGE-Electrophoresis. Result: The 4.556 nor redundant ESTs, which from C. bassiana with total length of 2953 173 by were selected. 718 EST-SSR skistinbuted in 616 ESTs were totally screened out, accounting for 15.8%50 fthe non-redundant ESTs. It was discovered that the average distance of EST-SSSR was 14.496 by in EST-SSRs distribution of C. bassiana. Trinucleotide repeats were the most abundant types with 419 repeated sequenced of C. militaris, totally 1.363 non-redundant ESTs were acquired, from which 1117 EST-SSRs were screened, and rate of SSR sites in ESTs was 8.1.95%. The leading mort of SSR was nucleotide. A The 50 pairs of EST-SSR primers were designed according to the ESTs of C. bassiana. Transcribed of the 50 pairs of primers from the ESTs of C unificative were found to be amplified as the clear fragments, accounting for 97.5%. The phylogenetic analysis revealed that different anamorph of Cordyceps spieces were divided into four branches. Conclusion: The EST-SSR of Cardyceps had comparably higher utility value. The EST-SSR markers developed from ESTs of C. bassiana and Cmilitaris had well transferability in Cordyceps. And it was suggested that the EST-SSR markers should be an easy and effective way to assay molecular genetic structure of Cordyceps.

keywords: Cordyceps | Cordyceps bassiana | Cordyceps militaris | EST-SSR | primer design

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