ISSN 1674-3466 GO 高级检索

期刊介绍 | 编委会 | 投稿指南 | 期刊订阅 | 留言板| 联系我们

最新目录 | 下期目录 | 过刊浏览 | 高级检索

植物学报 » 2011, Vol. 46 » Issue (5):506-513 DOI: 10.3724/SP.J.1259.2011.00506

<< Previous Articles | Next Articles >>

一个新的水稻花器官突变体的鉴定和基因定位

罗伟雄1, 李明2, 陈军1, 罗琼1**

研究报告

1云南农业大学农业生物多样性与病虫害控制教育部重点实验室/云南省植物病理重点实验室, 昆明 650201 2中国科学院遗传与发育生物学研究所, 植物基因组学国家重点实验室, 北京 100101

Characterization and Gene Mapping of a Novel Mutant in Rice Floral Organs

Weixiong Luo¹, Ming Li², Jun Chen¹, Qiong Luo^{1*}*

¹Key Laboratory of Agriculture Biodiversity for Plant Disease Management, Ministry of Education/Key Laboratory of Plant Pathology, Yunnan Agricultural University, Kunming 650201, China;

²State Key Laboratory of Plant Genomics, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing 100101, China

摘要

参考文献

相关文章

Download: PDF (427KB) HTML 1KB Export: BibTeX or EndNote (RIS) Supporting Info

摘要 在水稻(Oryza sativa)品种台中65的组培后代中发现一个花器官发育异常突变体flower organ number 6 (fon6), 其主要表 型为:双子房,多柱头,7-8枚雄蕊。遗传分析表明,该突变表型由一对隐性基因控制。以该突变体与籼稻3037杂交的Fo代分离群体 作为定位群体,利用STS标记将与突变性状相关的基因定位于第6染色体短臂上STS标记PL4和PL5之间约480 kb的范围内。该研究结 果为进一步的基因克隆及功能研究奠定了基础。

关键词: 双子房 花器官 基因定位 多柱头 水稻

Abstract: We obtained a rice floral mutant, inner flower organ number 6 (fon6), from the progenies of tissue culture of a japonica variety Taichung65. The mutant has double ovaries, multi-stigmas, and 7 to 8 stamens. The mutant trait is controlled by a single recessive gene. The F_2 population derived from the cross between Zhongxian 3037 and fon6 was used for gene mapping. FON6 was mapped to the ~480-kb region between the sequencetagged site markers PL4 and PL5 on chromosome 6. These results will be useful for cloning and functional analysis of the gene.

Keywords: double-ovary flower organ gene mapping multi-stigmas rice

Received 2011-01-27; published 2011-09-01

Fund:

国家自然科学基金青年基金项目;国家自然基金;云南省应用基础研究计划

Corresponding Authors: 罗琼 Email: qiongbf@yahoo.com.cn

引用本文:

罗伟雄, 李明, 陈军等. 一个新的水稻花器官突变体的鉴定和基因定位[J] 植物学报, 2011, V46(5): 506-513

Weixiong Luo, Ming Li, Jun Chen etc. Characterization and Gene Mapping of a Novel Mutant in Rice Floral Organs[J], 2011, V46(5): 506-513

http://www.chinbullbotany.com//CN/10.3724/SP.J.1259.2011.00506 http://www.chinbullbotany.com//CN/Y2011/V46/I5/506

Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- **▶** RSS

作者相关文章

- ▶ 罗伟雄
- ▶ 李明
- ▶ 陈军
- ▶罗琼

Copyright 2010 by 植物学报