

Isolation and Analysis of the Promoter of OsRacD from Photoperiod Sensitive Genic Male Sterile Rice [PDF]

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摘 要: By using OsRacD cDNA as probe to screen the genomic library of photoperiod sensitive genic male sterile rice line Nongken 58S, a positive clone containing 2 kb promoter and 396 bp coding region of OsRacD was obtained. Compared with the promoter of OsRacD cloned by reverse PCR from normal rice variety Nongken 58 (Nongken 58N), the homology was 99.8%, and the different nucleotides were outside the predicted response elements in promoter, suggesting that the fertility between rice varieties Nongken 58S and Nongken 58N under the long-day conditions was not attributed to the difference in the structure of OsRacD upstream regulation sequences, but to the developmental regulation of gene differential expression.

关键词: photoperiod sensitive genic male sterility; rice; genomic library; OsRacD gene; promoter

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