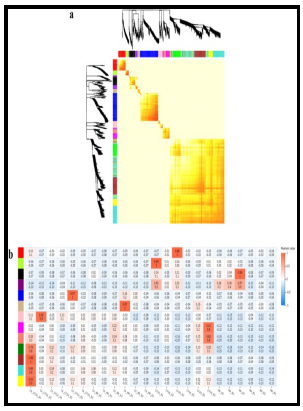
Genetic analysis of two tomato genes for resistance to Cladosporium fulvum.

University of East Anglia - Characterization of the tomato Cf



Description: -
-Genetic analysis of two tomato genes for resistance to Cladosporium fulvum.
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Characterization of the Tomato Cf

These 18 genes were selected to reflect some of the functional categories and pathways described below Section GO and KEGG Enrichment Analysis of DEGs , such as the plant-pathogen interaction pathway and plant hormone signal transduction pathway Table.

Characterization of the tomato Cf

This marker was designed based on a 60-bp insertion in Solyc01g006550. A similar result was found in this study; the C-terminal portion of the candidate gene Solyc01g006550.

Frontiers

In tomato, the Cf-4 and Cf-9 resistance genes map to the same location but confer resistance to Cladosporium fulvum through recognition of different avirulence determinants AVR4 and AVR9 by a molecular mechanism that has yet to be determined. Three association regions are shown as I, II and III based on the F 2 SLAF-seq analysis. Gene expression levels were calculated based on the length of the gene, sequencing depth and read count mapped to this gene using the Fragments Per Kilobase of transcript sequence per Millions base pairs sequenced FPKM; method.

Functional analysis of Avr9/Cf

Passalora fulva is a biotrophic pathogen of tomato Solanum lycopersicum , which causes leaf mold disease.

Genetic and molecular analysis of tomato Cf genes for resistance to Cladosporium fulvum

Numbers of PCR cycles are indicated at the top. Two complex resistance loci revealed in tomato by classical and RFLP mapping of the Cf-2, Cf-4, Cf-5, and Cf-9 genes for resistance to Cladosporium fulvum.

Characterization of the tomato Cf

RNA Sequencing and Transcripts Identification In order to investigate differences in transcriptome between C.

Genetic and molecular analysis of tomato Cf genes for resistance to Cladosporium fulvum

DNA from the parents CGN18423 and Moneymaker and F 3 lines was also prepared using the CTAB method for parental resequencing and marker testing, respectively.

Genetic and molecular analysis of tomato Cf genes for resistance to Cladosporium fulvum

Our analysis of Cf gene loci at the molecular level has shown they comprise tandemly duplicated homologous genes, and suggests a molecular mechanism for the generation of sequence diversity at these loci.

Related Books

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