



## Plant Reverse Genetics: Methods and Protocols (Hardback)

By -

Humana Press Inc., United States, 2010. Hardback. Condition: New. 2011 ed.. Language: English . Brand New Book. After the generation of genome sequence data from a wide variety of plants, databases are filled with sequence information of genes with no known biological function, and while bioinformatics tools can help analyze genome sequences and predict gene structures, experimental approaches to discover gene functions need to be widely implemented. In Plant Reverse Genetics: Methods and Protocols, leading researchers in the field describe cutting-edge methods, both high-throughput and genome-wide, involving the models Arabidopsis and rice as well as several other plants to provide comparative functional genomics information. With chapters on the analysis of high-throughput genome sequence data, the identification of non-coding RNA from sequence information, the comprehensive analysis of gene expression by microarrays, and metabolomic analysis, the thorough methods of the book are fully supported by scripts to aid their computational use. Written in the highly successful Methods in Molecular Biology (TM) series format, the chapters contain introductions to their respective topics, lists of the necessary materials, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and essential, Plant Reverse Genetics: Methods and Protocols is an ideal guide...



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