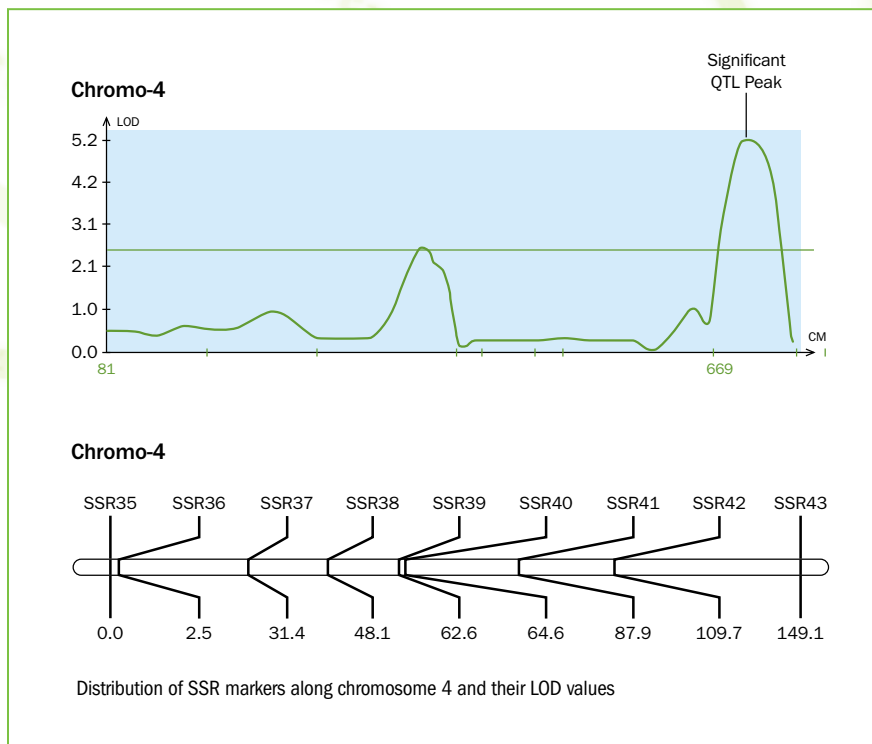


QTL Mapping and Trait Identification

Traits that are regulated by multiple genes are known as quantitative traits (e.g., intrinsic yield, drought tolerance and disease resistance). The genomic locations in which genes such as these reside are known as quantitative trait loci (QTL). Molecular markers can be used to map QTL regions and identify the genomic basis of a specific phenotype.

BDI offers a comprehensive range of marker-based genotyping services as well as data analysis support for identification of markers tightly linked to QTL regions. These markers can be a powerful selection tool in a breeding program.



Positional Gene Cloning

BDI offers high-resolution mapping to identify candidate genes for traits of interest. We employ a wide range of tools, including reverse genetics, genetic transformation, gene expression and literature mining, for functional characterization of these genes.

