One crop. Multiple uses.

Seed corn companies have used traditional plant breeding for decades to select drought tolerance in corn. Marker-assisted selection has been one of the genetic tools they’ve employed, enabling the identification of genes in corn that appear to perform better under water stress.

A corn hybrid is the result of a single cross between two inbred lines, the progeny of which is then planted and harvested.

Through the constant development of new products, we are continually innovating ways to help agricultural researchers. Genotype any species with standard sequencing panels or arrays, design your own, and access a wide range of open agriculture consortia products. Our agrigenomic technologies help plant and animal breeders and researchers identify desirable traits, leading to healthier and more productive crops and livestock.

Learn more about MaizeLD and 30 other off-the-shelf Illumina array and open consortium products at www.illumina.com/agrigenomics.
GENOMIC SELECTION FOR FASTER BREEDING DECISIONS.
Accelerate agrigenomic breakthroughs with the MaizeLD BeadChip Kit.

Illumina offers the most robust standard platform for determining essentially derived variety (EDV) status in maize. Exceeding a 99.4% call rate with over 99.9% reproducibility of 3047 SNPs, the MaizeLD BeadChip Kit provides an ideal foundation for maize breeding applications, with the ability to impute additional SNPs for custom projects. Add up to 70,000 custom markers onto the MaizeLD BeadChip array to support genomic selection, marker-assisted selection, varietal identification, genetic purity assessment, and other applications.

The MaizeLD and MaizeLD+ BeadChip Kits use the Infinium® HD Ultra assay and are compatible with the iScan® System and the HiScan® System.

High-density information at the cost of an array.
• Effective, high- and low-density screening for quick breeding decisions
• A wealth of information for genomic selection in crops
• Flexible add-on capabilities at a lower cost
• Internationally sanctioned EDV testing and utility for multiple applications
• High call rate and reproducibility

Features
• 3047 SNPs
• 70K attempted bead type add-on capacity
• 24-sample chip format
• Infinium-HD Ultra assay
• >99% call rate and 99.9% reproducibility
• All SNPs are a subset of the MaizeSNP50 content
• Available in configurations of 48, 288, and 1152 sample kits

The MaizeLD and MaizeLD+ BeadChip Kits use the Infinium® HD Ultra assay and are compatible with the iScan® System and the HiScan® System.

Advance your agrigenomics research with the MaizeLD BeadChip Kit. To place an order, contact your Illumina sales representative or visit www.illumina.com/products/maize-ld-beadchip.html.

References

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