

# NEAU Soybean Array

A high-density SNP genotyping array designed for modern soybean breeding and research

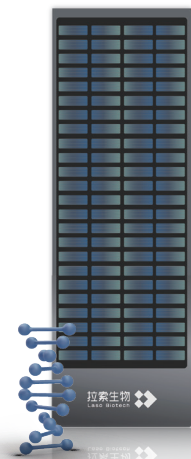
(Including chip, scanner compatibility, reagents, and analysis software)



## Product Overview

Soybean (*Glycine max* L.) is a globally important crop widely used for food, feed, and high-protein applications. Increasing demands for higher yield, improved quality, and enhanced stress resistance highlight the need for advanced molecular breeding tools to accelerate variety development.

NEAU Soybean Array is a high-density genotyping array featuring nearly 110,000 high-quality SNPs, designed to support comprehensive breeding and research workflows. It enables precise identification of loci related to yield, quality, disease resistance, maturity, and environmental adaptability, helping streamline parent selection, germplasm evaluation, and trait improvement.



## Applications

- ✓ Germplasm Resource Assessment
- ✓ Variety Identity Testing
- ✓ Marker-assisted Selection
- ✓ Trait-associated Marker Discovery
- ✓ Disease-resistance Evaluation
- ✓ Quality-related Trait Screening
- ✓ Genetic Diversity Analysis
- ✓ Genome-wide Association Studies (GWAS)

## Features



### Cost-effective

Demonstrates significant cost advantages in large-scale genotyping projects.



### Efficient

Processes up to **2,304** samples per run within **72** hours, delivering complete genotype data for rapid breeding or research decisions.



### Flexible Customization

Fully customizable and supports SNP expansion at any stage of application.



### Accurate

Mean call rate **>99.17%**, Mean reproducibility **>99.99%**, **15-30** repeated assays per marker.

## Data Performance

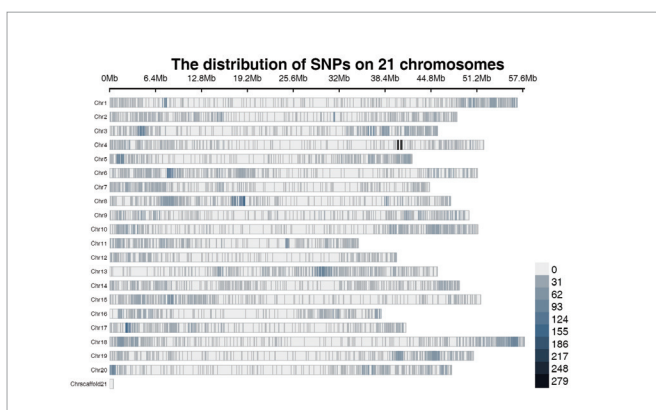


Figure 1. The distribution of SNPs on 21 chromosomes in NEAU Soybean Array

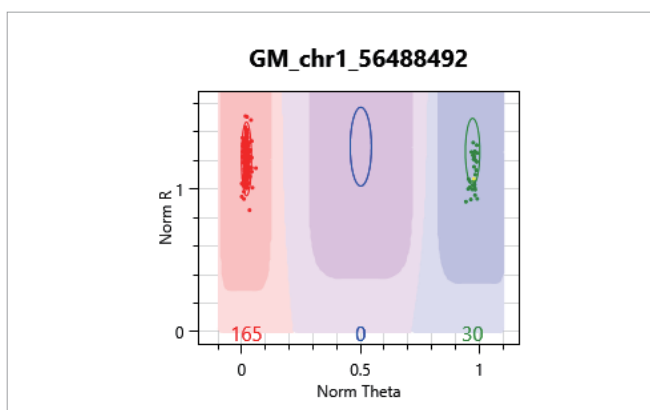


Figure 2. Genotyping clustering plot of a single SNP in NEAU Soybean Array

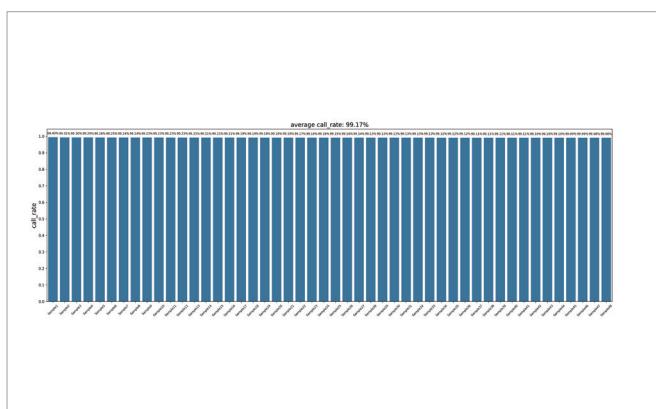


Figure 3. Genotyping call rate for test samples with the NEAU Soybean Array  
\*Mean call rate: **99.17%**

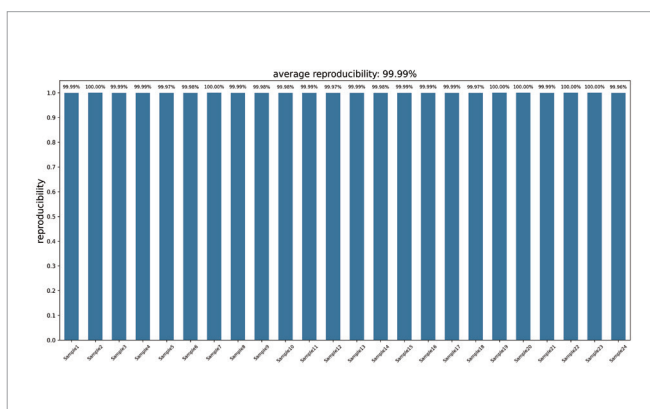


Figure 4. Genotyping reproducibility for test samples with the NEAU Soybean Array  
\*Mean reproducibility: **99.96%**

## About LASO Biotech

Suzhou LASO Biotech is a leading pioneer in China in the independent development, production, and commercialization of high-throughput microarrays, offering an integrated microarray solution that encompasses microarrays, the OmniScan microarray scanner, reagents, algorithms and software.

As of now, Laso Biotech has obtained **23** invention patents, **5** utility mode patents, **4** design patents, and **1** medical device registration certificate, making it the company with the most comprehensive intellectual property portfolio and independently controllable core technologies for microarray under Chinese law.

