Laso Biotech 拉索生物

Bovine SNP 50K

A cost-effective and efficient genotyping solution for bovine breeding.

Product Overview

Developed in collaboration with China Agricultural University, the Bovine SNP 50K array integrates genomic data from major dairy cattle breeds across China and worldwide. This high-density genotyping array is designed based on functional genes and SNP marker sets significantly associated with key economic traits, health indicators, and genetic backgrounds of dairy cattle.

Featuring nearly 50,000 carefully selected and uniformly distributed SNPs, it enables accurate genomic analysis and facilitates applications such as genetic evaluation, pedigree constrution, heterosis assessment, and genomic selection. The array provides comprehensive coverage and strong analytical reliability, offering essential technical support for dairy cattle genomic research and breeding programs.

Applications

- Genomic Selection Breeding
- Genetic Diversity Analysis
- Functional Gene Research
- Performance Evaluation
- Genetic Defect and Disease Resistance Screening

Features

Cost-effective

Demonstrates significant cost advantages in large-scale genotyping projects

Customization Flexible

Fully customizable and supports SNP expansion at any stage of application

Convenient & Efficient

Processes up to 2,304 samples per run within 72 hours, delivering complete genotype data

Accurate

Mean call rate > 99.91%, Mean reproducibility > 99.96%, 15-30 repeated assays per marker

Data Performance

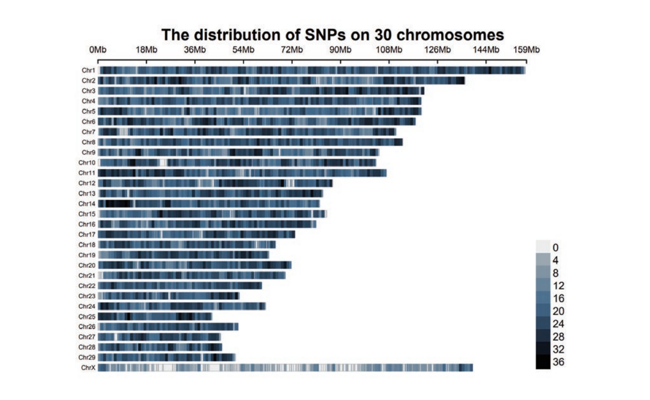

Figure 1. Distribution of SNPs across 30 chromosomes in the Bovine SNP 50K array.

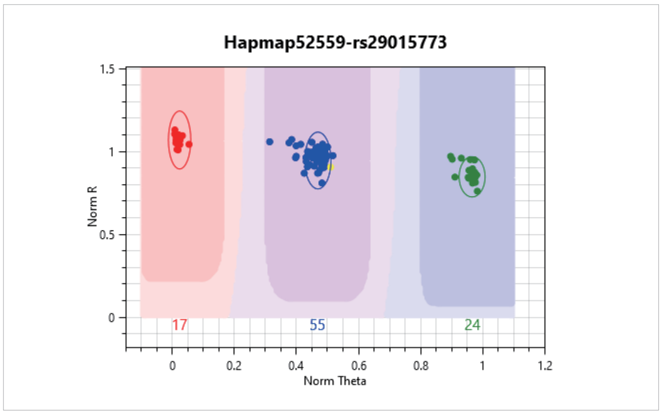

Figure 2. Genotype clustering plot for a representative SNP in the Bovine SNP 50K array.

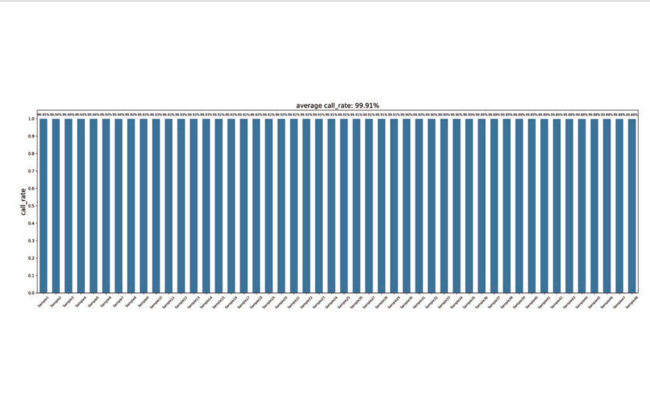

Figure 3. Genotype call rates for test samples using the Bovine SNP 50K array.
*Mean call rate: **99.91%**

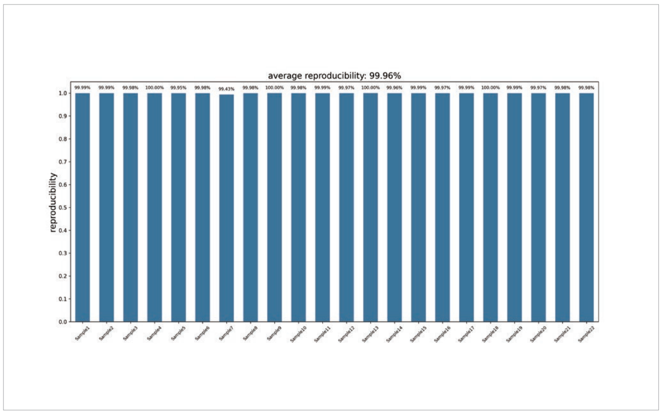

Figure 4. Genotype reproducibility for test samples using the Bovine SNP 50K array.
*Mean reproducibility: **99.96%**

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 **22** invention patents, **5** utility model 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.

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