



**GenoBaits®  
Chicken Genotyping Array**

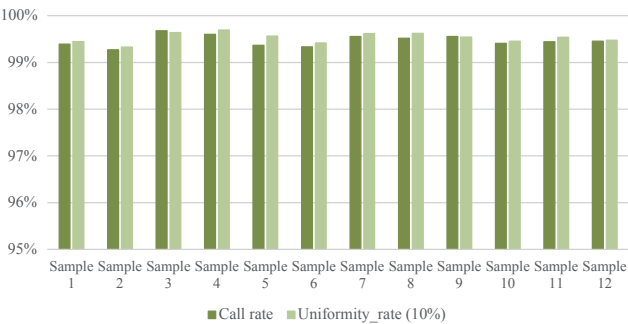
MolBreeding GenoBaits® Chicken Genotyping Array is poised to revolutionize your breeding work by effectively addressing long-standing issues such as genotype effects and environmental adaptability, thus paving a robust technological path for the sustainable development of the poultry industry.

## Application

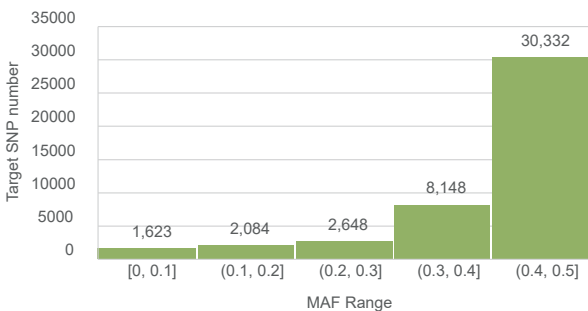
Germplasm Identification  
Germplasm evaluation  
Genetic diversity conservation and utilization

This panel is a collaborative achievement between the team of scientists from China Henan Agricultural University and the MolBreeding R&D team. This advanced product incorporates about 40K target SNPs and 15K mSNPs (total captured SNPs). These meticulously designed markers were derived from extensive resequencing data from 955 local chicken breeds, as well as cutting-edge pan-genome research findings and abundant public data sources.

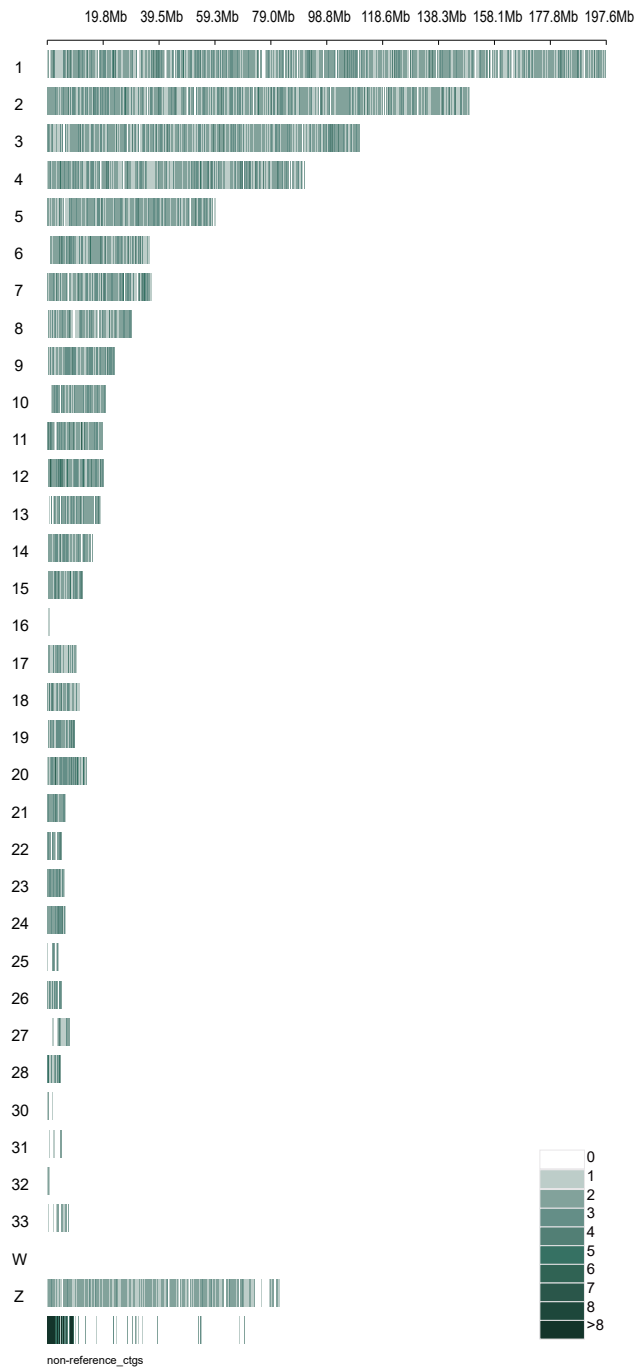
- 5 K markers - selected from a pool of 66.5 Mb pan-genome sequences, and
- 5 K markers - consisting of functional loci for GWAS analysis of growth, reproduction, carcass traits, etc., and
- 30 K markers - encompassing high-frequency SNP loci across 58 chicken breeds, and
- Integration of structural variations (SV), presence-absence variations (PAV), and insertion-deletion (InDel) mutation sites associated with traits such as growth and plumage color.



**Figure 1** The call rates were between 99.23% - 99.68%, uniformity\_rate (10%) was between 99.33% - 99.69%



**Figure 2** The MAF histogram. The mean MAF of 44,835 target sites in GenoBaits® Chicken Genotyping Array is 0.40.



**Figure 3** Distribution of target genotyping sites on chromosomes

Definition of ruler: SNP numbers of each sliding window in genome (along a window size of 50 Kb)