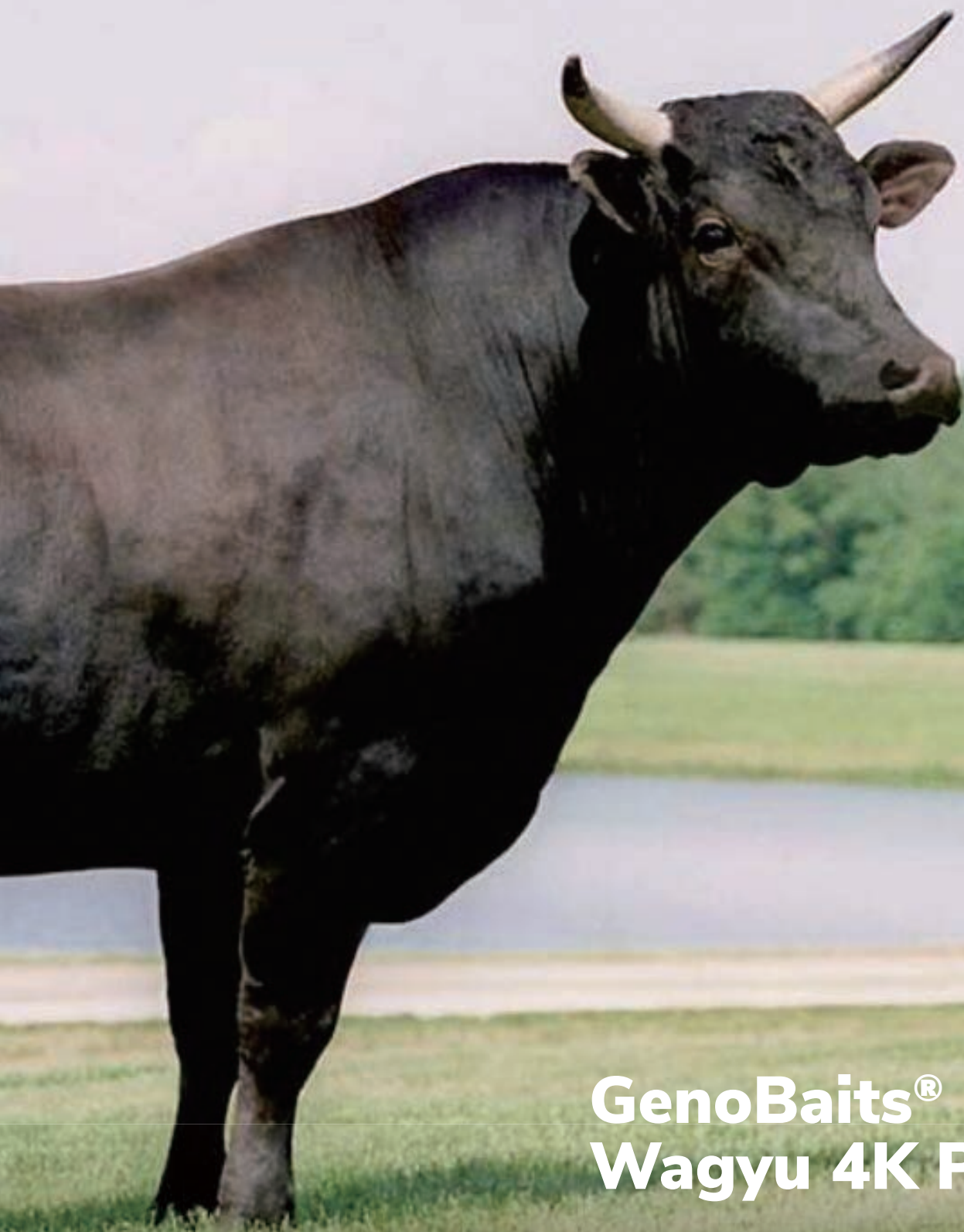




GenoBaits® Wagyu 4K Panel

Our state-of-the-art genotyping by Targeted Sequencing technology, utilizing our most updated 4K panel, is an efficient and cost effective solution for Wagyu cattle breeding. Renowned for their unique marbled meat texture, Wagyu cattle are recognized as the breed with the highest-quality beef in the world. By applying the latest advancements in GBTS, we are able to evaluate the potential performance of breeding cattle in the early stages, allowing ranches to make informed decisions and significantly shorten breeding cycles. Our professional service ensures that our clients receive the highest quality of genotyping results, providing invaluable insights for their breeding programs. Choose our GBTS technology with 4K panel for the ultimate in precision and efficiency in Wagyu cattle breeding.

The MolBreeding GenoBaits® Wagyu 4K Panel is the culmination of years of research and development by a team of experts led by Dr. He Muren from YuanNiu Breeding Technology Co., Ltd. The design of this panel is based on extensive trait determination and genome-wide data analysis of imported Japanese Wagyu in Australia. With this advanced panel, our customers can expect the highest level of precision and accuracy in their Wagyu breeding programs. This panel contains 3,943 specific SNP sites and 5 detection sites of common genetic defect genes (CHS, CL6, F11, B3, IARS) in Wagyu cattle.

Carcass Trait	Number of SNP
Muscle marbling	1611
Ribeye area	682
Fat thickness	1572
Hot carcass weight	1572



Product Highlight:

• Genomic Evaluations:

Assisting ranches to continuously increase the proportion of high-grade marbled beef cattle in the herds (60% ≥A3 grade)
Shortening the fattening period (24-26 months)
Improving population productivity and economic benefits.

• Genetic defect genes screening:

Optimizing breeding plans or culling strategies
The only scientific method to effectively eliminate the influence of genetic defect genes on production indicators (e.g. cattle growth speed, conception rate, and calf survival rate, etc.)

• Selection bulls of F1:

Crossbreeding Wagyu with breeds like Angus and Holstein to increase the meat quality of the F1 progeny
Using the GenoBaits® Wagyu 4K Panel to select suitable bulls of F1 progeny for producing marbled beef.

Result:

Parameter	Specification
Enrichment Method	Probe hybridization
Tested Sample Number	84
Mean SNP Call Rate	99.93%
Consistency of Duplicate Samples	≥99.87%
Comparison of Results with Illumina Bead Chip	The consistency up to 98.85% at the same sample and same site