

Global Genome Breeding Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Genome Breeding Chip market size is expected to reach \$ 241 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

A genome breeding chip is a high-throughput genotyping tool designed for crops, livestock, poultry, aquatic species, forest trees, and other economically important organisms. It detects SNPs, InDels, copy number variations, and other genetic markers to analyze genotypes, genetic diversity, and loci associated with target traits. A typical solution consists of standardized or customized probe arrays, supporting detection instruments, and bioinformatics analysis software. Genome breeding chips are widely used in germplasm identification, parentage analysis, variety authentication, marker-assisted selection, genome-wide association studies, and genomic selection. Compared with conventional phenotype-based breeding, these chips enable genetic evaluation at an early developmental stage, helping breeders shorten breeding cycles, improve selection accuracy, and reduce the time and cost required for large-scale screening. In 2025, global Genome Breeding Chip production reached approximately 4330 k Pcs, with an average global market price of around 36 USD/ Pc. The production capacity for Genome Breeding Chip in 2025 was approximately 5000 k Pcs. The typical gross profit margin for Genome Breeding Chip between 20% and 40%.

The genome breeding chip market is being driven by technological upgrading in the seed and animal breeding industries, government support for biological breeding, wider adoption of genomic selection, and growing demand for digital and large-scale genetic testing. As high-quality reference genomes, pangenome databases, and trait-associated marker resources continue to improve, breeding chips are evolving from general-purpose high-density arrays toward species-specific, trait-specific, and customized products, while expanding into specialty crops, aquaculture species, and local livestock

breeds. Major customers include research institutes, seed companies, livestock breeding enterprises, agricultural testing laboratories, and public germplasm resource centers. In the future, lower chip costs, automated sample processing, cloud-based data analysis, and integration between microarray and sequencing technologies are expected to broaden adoption in genomic selection, germplasm management, variety protection, and commercial breeding decisions. Suppliers with integrated capabilities in chip design, testing services, bioinformatics, and breeding database development are likely to gain a stronger competitive position.

This report studies the global Genome Breeding Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Genome Breeding Chip and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Genome Breeding Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Genome Breeding Chip total production and demand, 2021-2032, (K Pcs)

Global Genome Breeding Chip total production value, 2021-2032, (USD Million)

Global Genome Breeding Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Genome Breeding Chip consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Genome Breeding Chip domestic production, consumption, key domestic manufacturers and share

Global Genome Breeding Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Genome Breeding Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Genome Breeding Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Genome Breeding Chip market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific, Agilent, Illumina,

insect, Lasso Biochip Technology, GreenFaFa, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Genome Breeding Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Genome Breeding Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Genome Breeding Chip Market, Segmentation by Type:

Plant Breeding Chips

Animal Breeding Chips

Global Genome Breeding Chip Market, Segmentation by Product Design:

Semi-custom Chips

Fully Custom Chips

Global Genome Breeding Chip Market, Segmentation by Technology Platform:

Solid-phase Microarray Chips

Liquid-phase Breeding Chips

Global Genome Breeding Chip Market, Segmentation by Application:

Agriculture

Animal Husbandry

Aquaculture

Other

Companies Profiled:

Thermo Fisher Scientific

Agilent

Illumina

Qiagen

Lasso Biochip Technology

GreenFaFa

Key Questions Answered:

1. How big is the global Genome Breeding Chip market?
2. What is the demand of the global Genome Breeding Chip market?
3. What is the year over year growth of the global Genome Breeding Chip market?
4. What is the production and production value of the global Genome Breeding Chip market?
5. Who are the key producers in the global Genome Breeding Chip market?
6. What are the growth factors driving the market demand?

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