

Global Liquid-phase Breeding Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Liquid-phase Breeding Chip market size was valued at US\$ 100 million in 2025 and is forecast to a readjusted size of US\$ 148 million by 2032 with a CAGR of 5.3% during review period.

A liquid-phase breeding chip is a genotyping platform that performs DNA marker detection in solution rather than on a fixed solid array. Instead of immobilizing probes on glass or silicon, it uses solution-based chemistries?such as multiplex PCR, target capture sequencing, or allele-specific fluorescence assays (e.g., KASP, AgriSeq, genotyping-by-sequencing)?to identify genetic variation. Because it is flexible, scalable, and often cheaper per sample for smaller marker sets, liquid-phase chips are widely applied in crop and livestock breeding programs to verify specific traits, accelerate marker-assisted selection, and reduce costs compared to high-density solid-phase arrays.

The upstream segment of the liquid-phase breeding chip industry focuses on the development and production inputs necessary to create the chips. It includes the collection and analysis of plant genetic resources, such as germplasm and DNA samples, and the identification of genetic markers through biotechnology and sequencing. In addition, upstream suppliers provide chip design, reagents, substrates, and microarray or manufacturing services that enable high-throughput genotyping.

The downstream segment centers on the application and commercialization of these chips. Major users include seed companies, crop breeding institutes, and agricultural research organizations, which apply chip-based genotyping to accelerate marker-assisted selection, trait analysis, and variety improvement. Ultimately, the results benefit

farmers and agribusinesses through the development of high-yield, stress-resistant, and disease-tolerant crop varieties. In short, upstream activities provide the technological foundation for chip production, while downstream activities translate that technology into practical breeding innovations and commercial seed products.

In 2025, global Liquid-phase Breeding Chip production reached approximately 2481 k Pcs, with an average global market price of around 39 USD/ Pc,.The production capacity for Liquid-phase Breeding Chip in 2025 was approximately 3000 k Pcs. The typical gross profit margin for Liquid-phase Breeding Chip between 20% and 40%.

The liquid-phase breeding chip market is being driven by the digital transformation of the seed industry, commercialization of molecular breeding, wider adoption of genomic selection, and growing demand to shorten crop and animal breeding cycles. Compared with fixed-content solid-state arrays, liquid-phase panels allow markers to be added, removed, or adjusted more easily according to species, breeding populations, and target traits, making them particularly suitable for new variety development, germplasm evaluation, and proprietary marker databases. As high-quality reference genomes, whole-genome resequencing datasets, and validated trait-associated markers continue to expand, liquid-phase chips are progressing from research-oriented validation tools toward large-scale breeding selection and commercial testing platforms. Future competition will focus on proprietary marker resources, probe and primer design, sequencing cost, genotype-calling accuracy, bioinformatics software, and integrated breeding data services, while marker transferability across populations, testing standardization, and data consistency at large sample volumes remain important market challenges.

This report is a detailed and comprehensive analysis for global Liquid-phase Breeding Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Liquid-phase Breeding Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Liquid-phase Breeding Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Liquid-phase Breeding Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Liquid-phase Breeding Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Liquid-phase Breeding Chip

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Liquid-phase Breeding Chip market based on the following parameters - company overview, sales quantity, revenue, 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, ?nsect, Lasso Biochip Technology, GreenFaFa, etc.

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

Market Segmentation

Liquid-phase Breeding Chip market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

SNP Breeding Panels

InDel Breeding Panels

Combined SNP and InDel Panels

Market segment by Product Design

Semi-custom Chips

Fully Custom Chips

Market segment by Number of Target Markers

Low-density Crop Breeding Chips

Medium-density Crop Breeding Chips

High-density Crop Breeding Chips

Market segment by Application

Crop Seed Industry

Livestock and Poultry Breeding

Aquaculture Breeding

Horticulture and Forestry Breeding

Others

Major players covered

Thermo Fisher Scientific

Agilent

Illumina

Qnsect

Lasso Biochip Technology

GreenFaFa

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Liquid-phase Breeding Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Liquid-phase Breeding Chip, with price, sales quantity, revenue, and global market share of Liquid-phase Breeding Chip from 2021 to 2026.

Chapter 3, the Liquid-phase Breeding Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Liquid-phase Breeding Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Liquid-phase Breeding Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Liquid-phase Breeding Chip.

Chapter 14 and 15, to describe Liquid-phase Breeding Chip sales channel, distributors, customers, research findings and conclusion.

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