

# Global Strains Directed Breeding Platform Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Strains Directed Breeding Platform market size was valued at US\$ 1112 million in 2025 and is forecast to a readjusted size of US\$ 2231 million by 2032 with a CAGR of 10.6% during review period.

The strain directional selection platform refers to a technical system that uses advanced biotechnology and engineering methods to optimize and transform microbial strains for specific application purposes. The platform integrates multiple technical methods such as gene editing, synthetic biology, automated high-throughput screening, and directed evolution, aiming to develop microbial strains with excellent characteristics and high production efficiency to meet the needs of biomedicine, agriculture, food, and industry. The needs of various industries such as biotechnology. Through targeted breeding, the product yield, stability and environmental adaptability of strains can be significantly improved, thus promoting industrial application and technological innovation.

The industrial chain of targeted strain breeding platforms typically consists of an upstream layer of strain resources and raw materials, a midstream layer of platform technology and tools, and a downstream layer of applications and services. The upstream layer includes natural strain libraries, microbial culture media, culture equipment, and high-throughput screening tools, with relatively moderate technological barriers and gross profit margins generally between 30% and 50%. The midstream layer is the core, encompassing targeted strain evolution technology, gene editing tools, automated screening platforms, data analysis, and algorithm modeling. The combination of software and algorithms with experimental procedures enables high-throughput and high-efficiency breeding, with gross profit margins typically between

60% and 85%. The downstream layer caters to application industries such as pharmaceuticals, biopharmaceuticals, food fermentation, agricultural biopharmaceuticals, and industrial biotransformation, providing customized strain breeding, technical services, and technology transfer support, with relatively lower gross profit margins, approximately 35% to 55%.

The strain-directed breeding platform is of great significance in modern biotechnology and industrial development. It not only accelerates the development process of new microbial strains, but also greatly improves production efficiency and product quality. By integrating cutting-edge technologies such as gene editing, synthetic biology, and high-throughput screening, these platforms can precisely optimize strain characteristics and meet the diverse needs of different industries for microbial function and performance. In the future, with the continuous advancement of technology and the expansion of application fields, the strain-directed breeding platform will further promote the development of the bioeconomy and achieve a more sustainable and efficient production method.

This report is a detailed and comprehensive analysis for global Strains Directed Breeding Platform market. Both quantitative and qualitative analyses are presented by company, 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 Strains Directed Breeding Platform market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Strains Directed Breeding Platform market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Strains Directed Breeding Platform market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Strains Directed Breeding Platform market shares of main players, in revenue (\$ Million), 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 Strains Directed Breeding Platform

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 Strains Directed Breeding Platform market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ginkgo Bioworks, Amyris, Twist Bioscience, Conagen, BOTA Bio, Codexis, Novozymes, SeSaM?Biotech GmbH, Creative Biolabs, Allonnia, etc.

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

## Market segmentation

Strains Directed Breeding Platform 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. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Traditional Breeding Platform

Gene Editing Platform

Synthetic Biology Platform

Others

## Market segment by Strains

Pharmaceutical Strains

Food Strains

Agricultural Strains

## Market segment by Automation level

Semi-Automated Platform

Fully Automated Platform

## Market segment by Application

Biomedicine

Agriculture

Food

Chemical Industry

Others

## Market segment by players, this report covers

Ginkgo Bioworks

Amyris

Twist Bioscience

Conagen

BOTA Bio

Codexis

Novozymes

SeSaM?Biotech GmbH

Creative Biolabs

Allonnia

C16 Biosciences

SilicoLife

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Strains Directed Breeding Platform product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Strains Directed Breeding Platform, with revenue, gross margin, and global market share of Strains Directed Breeding Platform from 2021 to 2026.

Chapter 3, the Strains Directed Breeding Platform competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Strains Directed Breeding Platform market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Strains Directed Breeding Platform.

Chapter 13, to describe Strains Directed Breeding Platform research findings and conclusion.

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