

# **Recombinant DNA Technology Market Size, Trends, Analysis, and Outlook By Product (Medical, Non-medical), By Component (Expression System, Cloning Vector), By Application (Food & Agriculture, Health & Disease, Environment, Others), By End-user (Biotechnology and Pharmaceutical Companies, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Recombinant DNA Technology market size is poised to register 7.84% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Recombinant DNA Technology market across By Product (Medical, Non-medical), By Component (Expression System, Cloning Vector), By Application (Food & Agriculture, Health & Disease, Environment, Others), By End-user (Biotechnology and Pharmaceutical Companies, Others).

The Recombinant DNA Technology Market is experiencing growth propelled by increasing applications in biopharmaceutical production, gene therapy, and genetic engineering, as well as advancements in molecular biology and gene editing technologies. Recombinant DNA technology involves the manipulation of DNA molecules to create recombinant DNA sequences with desired genetic traits. Key trends shaping its future include the development of novel gene editing tools such as CRISPR-Cas9 for precise genome editing and gene therapy applications, integration of synthetic biology approaches for the design and construction of engineered DNA sequences, and customization of recombinant DNA platforms for biologic drug production and gene

therapy vectors. Moreover, increasing investment in biotechnology research and development, expansion of gene therapy clinical trials and commercialization efforts, and regulatory approvals for new genetically modified organisms contribute to market expansion.

## Recombinant DNA Technology Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Recombinant DNA Technology market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Recombinant DNA Technology survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Recombinant DNA Technology industry.

## Key market trends defining the global Recombinant DNA Technology demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Recombinant DNA Technology Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Recombinant DNA Technology industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Recombinant DNA Technology companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Recombinant DNA Technology industry

Leading Recombinant DNA Technology companies are boosting investments to

capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Recombinant DNA Technology companies.

### Recombinant DNA Technology Market Study- Strategic Analysis Review

The Recombinant DNA Technology market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### Recombinant DNA Technology Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Recombinant DNA Technology industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Recombinant DNA Technology Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For

each of the six regions, the market size outlook by segments is forecast for 2030.

**North America Recombinant DNA Technology Market Size Outlook- Companies plan for focused investments in a changing environment**

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Recombinant DNA Technology market segments. Similarly, Strong end-user demand is encouraging Canadian Recombinant DNA Technology companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Recombinant DNA Technology market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

**Europe Recombinant DNA Technology Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities**

The German industry remains the major market for companies in the European Recombinant DNA Technology industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Recombinant DNA Technology market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

**Asia Pacific Recombinant DNA Technology Market Size Outlook- an attractive hub for opportunities for both local and global companies**

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Recombinant DNA Technology in Asia Pacific. In particular, China, India, and South East Asian Recombinant DNA Technology markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning

their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Recombinant DNA Technology Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Recombinant DNA Technology Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Recombinant DNA Technology market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Recombinant DNA Technology.

Recombinant DNA Technology Market Company Profiles

The global Recombinant DNA Technology market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Amgen Inc, Eli Lilly and Company, F. Hoffmann-La Roche Ltd, GenScript, Horizon Discovery, Merck KGaA, New England Biolabs, Novartis AG, Novo Nordisk A/S, Pfizer Inc, Sanofi, Syngene International Ltd

Recent Recombinant DNA Technology Market Developments

The global Recombinant DNA Technology market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Recombinant DNA Technology Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

### Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

### Market Segmentation:

By Product

Medical

-Therapeutic Agent

-Human Protein

-Vaccine

Non-medical

-Biotech Crops

-Specialty Chemicals

-Others

By Component

Expression System

-Mammalian

-Bacteria

-Yeast

-Baculovirus/insect

-Others

Cloning Vector

By Application

Food & Agriculture

Health & Disease

-Human

-Animal

Environment

Others

By End-User

Biotechnology and Pharmaceutical Companies

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Amgen Inc

Eli Lilly and Company

F. Hoffmann-La Roche Ltd

GenScript

Horizon Discovery

Merck KGaA

New England Biolabs

Novartis AG

Novo Nordisk A/S

Pfizer Inc



Sanofi

Syngene International Ltd

Formats Available: Excel, PDF, and PPT

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-Human Protein

-Vaccine

Non-medical

-Biotech Crops

-Specialty Chemicals

-Others

By Component

Expression System

-Mammalian

-Bacteria

-Yeast

-Baculovirus/insect

-Others

Cloning Vector

By Application

Food & Agriculture

Health & Disease

-Human

-Animal

Environment

Others

By End-User

Biotechnology and Pharmaceutical Companies

Others

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Novartis AG  
Novo Nordisk A/S  
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