

Recombinant DNA Technology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

https://marketpublishers.com/r/RA8471ECFFDBEN.html

Date: May 2022 Pages: 142 Price: US\$ 2,499.00 (Single User License) ID: RA8471ECFFDBEN

Abstracts

The global recombinant DNA technology market reached a value of US\$ 690.4 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 925 Billion by 2027, exhibiting a CAGR of 4.9% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

The advent of recombinant DNA technology has revolutionized development in biology and offered new opportunities for innovations. Also known as genetic engineering, it is currently widely used to alter genetic material outside an organism and obtain improved and desired characteristics in living organisms. It includes the insertion of DNA fragments from several sources that have a desirable gene sequence through an appropriate vector. Besides this, it assists in the safe, affordable, and sufficient production of vital proteins required for dietary purposes and fighting health problems. As a result, it has multidisciplinary applications and a remarkable potential to improve health and enhance food resources and resistance to divergent adverse environmental effects.

Recombinant DNA Technology Market Trends:

The recombinant DNA technology is utilized for improving different health conditions, mainly by developing new vaccines and pharmaceuticals. This, coupled with the improving treatment strategies on account of the developing diagnostics kits, monitoring devices, and new therapeutic approaches, represents one of the key factors impelling the growth of the market. Moreover, there is a rise in the research conducted on genetically modified organisms (GMO), which include microorganisms that are



considered as bio degraders and clean fuel producers. This can be accredited to rapid urbanization, growing global population, reducing arable land, considerable rising food shortage and increasing adoption of GMO crops. Apart from this, as recombinant DNA technology offers several innovation opportunities to develop a vast range of therapeutic products with immediate effect in medical genetics and biomedicine, its application is expanding in various sectors. For instance, the integration of recombinant DNA technology with effective gene therapy for replacing the defective gene with normal ones and the production of antigen-specific antibodies for clinical research, studies, and disease diagnosis, are anticipated to drive the market growth in the upcoming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global recombinant DNA technology market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on product, component, application and end user.

Breakup by Product:

Medical Therapeutic Agent Human Protein Vaccines Non-Medical Biotech Crops Specialty Chemicals Others

Breakup by Component:

Expression System Cloning Vector

Breakup by Application:

Food and Agriculture Health and Disease Environment Others

Recombinant DNA Technology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-.



Breakup by End User:

Biotechnology and Pharmaceutical Companies Academic and Government Research Institutes Others

Breakup by Region:

North America **United States** Canada Asia-Pacific China Japan India South Korea Australia Indonesia Others Europe Germany France **United Kingdom** Italy Spain Russia Others Latin America Brazil Mexico Others Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Amgen Inc, Cibus, F.Hoffmann-La Roche Ltd, GenScript, GlaxoSmithKline plc., Horizon Discovery Group plc, Merck KGaA, New England Biolabs, Novo Nordisk A/S, Pfizer Inc., Sanofi S.A and Syngene International



Ltd (Biocon Limited).

Key Questions Answered in This Report:

How has the global recombinant DNA technology market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global recombinant DNA technology market?

What are the key regional markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the component?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global recombinant DNA technology market and who are the key players?

What is the degree of competition in the industry?



Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
- 2.3.1 Primary Sources
- 2.3.2 Secondary Sources
- 2.4 Market Estimation
- 2.4.1 Bottom-Up Approach
- 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL RECOMBINANT DNA TECHNOLOGY MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCT

- 6.1 Medical
 - 6.1.1 Market Trends
 - 6.1.2 Key Segments
 - 6.1.2.1 Therapeutic Agent
 - 6.1.2.2 Human Protein
 - 6.1.2.3 Vaccines
 - 6.1.3 Market Forecast



6.2 Non-Medical
6.2.1 Market Trends
6.2.2 Key Segments
6.2.2.1 Biotech Crops
6.2.2.2 Specialty Chemicals
6.2.2.3 Others
6.2.3 Market Forecast

7 MARKET BREAKUP BY COMPONENT

7.1 Expression System
7.1.1 Market Trends
7.1.2 Market Forecast
7.2 Cloning Vector
7.2.1 Market Trends
7.2.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

8.1 Food and Agriculture
8.1.1 Market Trends
8.1.2 Market Forecast
8.2 Health and Disease
8.2.1 Market Trends
8.2.2 Market Forecast
8.3 Environment
8.3.1 Market Trends
8.3.2 Market Forecast
8.4 Others
8.4.1 Market Trends
8.4.2 Market Forecast

9 MARKET BREAKUP BY END USER

- 9.1 Biotechnology and Pharmaceutical Companies
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Academic and Government Research Institutes
 - 9.2.1 Market Trends



9.2.2 Market Forecast9.3 Others9.3.1 Market Trends9.3.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America 10.1.1 United States 10.1.1.1 Market Trends 10.1.1.2 Market Forecast 10.1.2 Canada 10.1.2.1 Market Trends 10.1.2.2 Market Forecast 10.2 Asia-Pacific 10.2.1 China 10.2.1.1 Market Trends 10.2.1.2 Market Forecast 10.2.2 Japan 10.2.2.1 Market Trends 10.2.2.2 Market Forecast 10.2.3 India 10.2.3.1 Market Trends 10.2.3.2 Market Forecast 10.2.4 South Korea 10.2.4.1 Market Trends 10.2.4.2 Market Forecast 10.2.5 Australia 10.2.5.1 Market Trends 10.2.5.2 Market Forecast 10.2.6 Indonesia 10.2.6.1 Market Trends 10.2.6.2 Market Forecast 10.2.7 Others 10.2.7.1 Market Trends 10.2.7.2 Market Forecast 10.3 Europe 10.3.1 Germany 10.3.1.1 Market Trends



10.3.1.2 Market Forecast 10.3.2 France 10.3.2.1 Market Trends 10.3.2.2 Market Forecast 10.3.3 United Kingdom 10.3.3.1 Market Trends 10.3.3.2 Market Forecast 10.3.4 Italy 10.3.4.1 Market Trends 10.3.4.2 Market Forecast 10.3.5 Spain 10.3.5.1 Market Trends 10.3.5.2 Market Forecast 10.3.6 Russia 10.3.6.1 Market Trends 10.3.6.2 Market Forecast 10.3.7 Others 10.3.7.1 Market Trends 10.3.7.2 Market Forecast 10.4 Latin America 10.4.1 Brazil 10.4.1.1 Market Trends 10.4.1.2 Market Forecast 10.4.2 Mexico 10.4.2.1 Market Trends 10.4.2.2 Market Forecast 10.4.3 Others 10.4.3.1 Market Trends 10.4.3.2 Market Forecast 10.5 Middle East and Africa 10.5.1 Market Trends 10.5.2 Market Breakup by Country 10.5.3 Market Forecast

11 SWOT ANALYSIS

11.1 Overview 11.2 Strengths 11.3 Weaknesses

Recombinant DNA Technology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-.



11.4 Opportunities

11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

15.1 Market Structure 15.2 Key Players 15.3 Profiles of Key Players 15.3.1 Amgen Inc 15.3.1.1 Company Overview 15.3.1.2 Product Portfolio 15.3.1.3 Financials 15.3.1.4 SWOT Analysis 15.3.2 Cibus 15.3.2.1 Company Overview 15.3.2.2 Product Portfolio 15.3.3 F.Hoffmann-La Roche Ltd 15.3.3.1 Company Overview 15.3.3.2 Product Portfolio 15.3.3.3 SWOT Analysis 15.3.4 GenScript 15.3.4.1 Company Overview 15.3.4.2 Product Portfolio 15.3.5 GlaxoSmithKline plc. 15.3.5.1 Company Overview 15.3.5.2 Product Portfolio

Recombinant DNA Technology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-...



15.3.5.3 Financials

15.3.5.4 SWOT Analysis 15.3.6 Horizon Discovery Group plc 15.3.6.1 Company Overview 15.3.6.2 Product Portfolio 15.3.7 Merck KGaA 15.3.7.1 Company Overview 15.3.7.2 Product Portfolio 15.3.7.3 Financials 15.3.7.4 SWOT Analysis 15.3.8 New England Biolabs 15.3.8.1 Company Overview 15.3.8.2 Product Portfolio 15.3.9 Novo Nordisk A/S 15.3.9.1 Company Overview 15.3.9.2 Product Portfolio 15.3.9.3 Financials 15.3.9.4 SWOT Analysis 15.3.10 Pfizer Inc. 15.3.10.1 Company Overview 15.3.10.2 Product Portfolio 15.3.10.3 Financials 15.3.10.4 SWOT Analysis 15.3.11 Sanofi S.A 15.3.11.1 Company Overview 15.3.11.2 Product Portfolio 15.3.11.3 Financials 15.3.11.4 SWOT Analysis 15.3.12 Syngene International Ltd (Biocon Limited) 15.3.12.1 Company Overview 15.3.12.2 Product Portfolio 15.3.12.3 Financials

15.3.12.4 SWOT Analysis



List Of Tables

LIST OF TABLES

Table 1: Global: Recombinant DNA Technology Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Recombinant DNA Technology Market Forecast: Breakup by Product (in Million US\$), 2022-2027

Table 3: Global: Recombinant DNA Technology Market Forecast: Breakup by Component (in Million US\$), 2022-2027

Table 4: Global: Recombinant DNA Technology Market Forecast: Breakup by Application (in Million US\$), 2022-2027

Table 5: Global: Recombinant DNA Technology Market Forecast: Breakup by End User (in Million US\$), 2022-2027

Table 6: Global: Recombinant DNA Technology Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 7: Global: Recombinant DNA Technology Market: Competitive Structure

 Table 8: Global: Recombinant DNA Technology Market: Key Players



List Of Figures

LIST OF FIGURES

Figure 1: Global: Recombinant DNA Technology Market: Major Drivers and Challenges Figure 2: Global: Recombinant DNA Technology Market: Sales Value (in Billion US\$), 2016-2021 Figure 3: Global: Recombinant DNA Technology Market Forecast: Sales Value (in Billion US\$), 2022-2027 Figure 4: Global: Recombinant DNA Technology Market: Breakup by Product (in %), 2021 Figure 5: Global: Recombinant DNA Technology Market: Breakup by Component (in %), 2021 Figure 6: Global: Recombinant DNA Technology Market: Breakup by Application (in %), 2021 Figure 7: Global: Recombinant DNA Technology Market: Breakup by End User (in %), 2021 Figure 8: Global: Recombinant DNA Technology Market: Breakup by Region (in %), 2021 Figure 9: Global: Recombinant DNA Technology (Medical) Market: Sales Value (in Million US\$), 2016 & 2021 Figure 10: Global: Recombinant DNA Technology (Medical) Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 11: Global: Recombinant DNA Technology (Non-Medical) Market: Sales Value (in Million US\$), 2016 & 2021 Figure 12: Global: Recombinant DNA Technology (Non-Medical) Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 13: Global: Recombinant DNA Technology (Expression System) Market: Sales Value (in Million US\$), 2016 & 2021 Figure 14: Global: Recombinant DNA Technology (Expression System) Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 15: Global: Recombinant DNA Technology (Cloning Vector) Market: Sales Value (in Million US\$), 2016 & 2021 Figure 16: Global: Recombinant DNA Technology (Cloning Vector) Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 17: Global: Recombinant DNA Technology (Food and Agriculture) Market: Sales Value (in Million US\$), 2016 & 2021 Figure 18: Global: Recombinant DNA Technology (Food and Agriculture) Market Forecast: Sales Value (in Million US\$), 2022-2027



Figure 19: Global: Recombinant DNA Technology (Health and Disease) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: Recombinant DNA Technology (Health and Disease) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: Recombinant DNA Technology (Environment) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Global: Recombinant DNA Technology (Environment) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: Global: Recombinant DNA Technology (Other Applications) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: Global: Recombinant DNA Technology (Other Applications) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: Global: Recombinant DNA Technology (Biotechnology and Pharmaceutical Companies) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: Global: Recombinant DNA Technology (Biotechnology and Pharmaceutical Companies) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Global: Recombinant DNA Technology (Academic and Government Research Institutes) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Global: Recombinant DNA Technology (Academic and Government

Research Institutes) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Global: Recombinant DNA Technology (Other End Users) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Global: Recombinant DNA Technology (Other End Users) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: North America: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: North America: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: United States: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: United States: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: Canada: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: Canada: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: Asia-Pacific: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: Asia-Pacific: Recombinant DNA Technology Market Forecast: Sales Value



(in Million US\$), 2022-2027 Figure 39: China: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021 Figure 40: China: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 41: Japan: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021 Figure 42: Japan: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 43: India: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021 Figure 44: India: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 45: South Korea: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021 Figure 46: South Korea: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 47: Australia: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021 Figure 48: Australia: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 49: Indonesia: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021 Figure 50: Indonesia: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 51: Others: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021 Figure 52: Others: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 53: Europe: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021 Figure 54: Europe: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 55: Germany: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021 Figure 56: Germany: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027 Figure 57: France: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021



Figure 58: France: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: United Kingdom: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: United Kingdom: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: Italy: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Italy: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: Spain: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: Spain: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: Russia: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: Russia: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: Others: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: Others: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 69: Latin America: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 70: Latin America: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 71: Brazil: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 72: Brazil: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 73: Mexico: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 74: Mexico: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 75: Others: Recombinant DNA Technology Market: Sales Value (in Million US\$), 2016 & 2021

Figure 76: Others: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 77: Middle East and Africa: Recombinant DNA Technology Market: Sales Value,



(in Million US\$), 2016 & 2021

Figure 78: Middle East and Africa: Recombinant DNA Technology Market: Breakup by Country (in %), 2021

Figure 79: Middle East and Africa: Recombinant DNA Technology Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 80: Global: Recombinant DNA Technology Industry: SWOT Analysis

Figure 81: Global: Recombinant DNA Technology Industry: Value Chain Analysis

Figure 82: Global: Recombinant DNA Technology Industry: Porter's Five Forces Analysis



I would like to order

 Product name: Recombinant DNA Technology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027
 Product link: <u>https://marketpublishers.com/r/RA8471ECFFDBEN.html</u>
 Price: US\$ 2,499.00 (Single User License / Electronic Delivery)
 If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/RA8471ECFFDBEN.html</u>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name: Last name: Email: Company: Address: City: Zip code: Country: Tel: Fax: Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <u>https://marketpublishers.com/docs/terms.html</u>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970



Recombinant DNA Technology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-...