

Recombinant DNA Technology Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global recombinant DNA technology market size reached US\$ 729.8 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 966.8 Billion by 2028, exhibiting a growth rate (CAGR) of 4.80% during 2022-2028.

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 report, along with forecasts at the global, regional and country level from 2023-2028. 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

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?

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