

# **Global Gene Editing Tools Market Size study, by Product (Clustered Regularly Interspaced, Short Palindromic Repeats (CRISPR/Cas9), Zinc Finger Nucleases (ZFNs), Transcription Activator-Like Effector Nucleases (TALENs), Viral Systems, Transposon Systems, Others), by Application (Veterinary Medicine, Cell Line Engineering, Bioremediation, Food and Brewing Development, Food Waste Management, Biosensing Development, Others) and Regional Forecasts 2022-2028**

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## **Abstracts**

Global Gene Editing Tools Market is valued at approximately USD 407.88 million in 2021 and is anticipated to grow with a healthy growth rate of more than 18.00 % over the forecast period 2022-2028. Genome editing (also known as gene editing) refers to a set of technologies that allow scientists to alter an organism's DNA. The bacteria then employ Cas9 or a similar enzyme to rip the virus's DNA apart, rendering it inoperable. In the lab, the CRISPR-Cas9 system operates similarly. The merger and acquisition among the companies and consistent technological advancements in the field of genome engineering tools have led to the adoption of Gene Editing Tools across the forecast period. For Instance: In January 2022, Pfizer, a multinational pharmaceutical and biotechnology corporation based in the U.S., signed a 4-year contract worth US\$ 300 million with Massachusetts-based Beam Therapeutics, a pioneer in the development of CRISPR editing tools. In April 2021, CANbridge Pharmaceuticals, Inc., which is a renowned biopharmaceutical company, collaborated with LogicBio Therapeutics, Inc., a clinical-stage genetic medicine company. Also, with the rising

awareness regarding the availability of genetically modified animals and crops and surging applications of genome engineering tools, the adoption & demand for Gene Editing Tools is likely to increase the market growth during the forecast period. However, lack of skilled professionals and high costs associated with Gene Editing Tools impede the growth of the market over the forecast period of 2022-2028.

The key regions considered for the Global Gene Editing Tools Market study include Asia Pacific, North America, Europe, Latin America and Rest of the World. North America is the leading region across the world in terms of market share owing to the presence of a robust commercial and research base for the development of advanced therapies. Whereas, Asia-Pacific is also anticipated to exhibit the highest growth rate over the forecast period 2022-2028. Factors such as government is allowing CRISPR DNA Editing of Crops to Enhance Production would create lucrative growth prospects for the Gene Editing Tools Market across Asia-Pacific region.

Major market players included in this report are:

Intellia Therapeutics, Inc.

Thermo Fisher Scientific, Inc.

ERS Genomics

CRISPR Therapeutics

Merck KGaA

Editas Medicine

GE Healthcare Dharmacon Inc.

Takara Bio USA

New England Biolabs

Horizon Discovery Group plc

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR/Cas9)

Zinc Finger Nucleases (ZFNs)

Transcription Activator-Like Effector Nucleases (TALENs)

Viral Systems

Transposon Systems

Others

By Application:

Veterinary Medicine

Cell Line Engineering

Bioremediation

Food and Brewing Development

Food Waste Management

Biosensing Development

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Gene Editing Tools Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

## Contents

### **CHAPTER 1. EXECUTIVE SUMMARY**

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2028 (USD Billion)
  - 1.2.1. Gene Editing Tools Market, by Region, 2020-2028 (USD Billion)
  - 1.2.2. Gene Editing Tools Market, by Product, 2020-2028 (USD Billion)
  - 1.2.3. Gene Editing Tools Market, by Application, 2020-2028 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### **CHAPTER 2. GLOBAL GENE EDITING TOOLS MARKET DEFINITION AND SCOPE**

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Scope of the Study
  - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### **CHAPTER 3. GLOBAL GENE EDITING TOOLS MARKET DYNAMICS**

- 3.1. Gene Editing Tools Market Impact Analysis (2020-2028)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Merger and acquisition among the companies
    - 3.1.1.2. Consistent technological advancements in the field of genome engineering tools
  - 3.1.2. Market Challenges
    - 3.1.2.1. Lack of skilled Professionals
    - 3.1.2.2. High cost associated with gene editing tools
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Rising awareness regarding the availability of genetically modified animals and crops
    - 3.1.3.2. Surging applications of genome engineering tools

### **CHAPTER 4. GLOBAL GENE EDITING TOOLS MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
  - 4.1.6. Futuristic Approach to Porter's 5 Force Model (2019-2028)
- 4.2. PEST Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological
- 4.3. Investment Adoption Model
- 4.4. Analyst Recommendation & Conclusion
- 4.5. Top investment opportunity
- 4.6. Top winning strategies

## **CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT**

- 5.1.1. Assessment of the overall impact of COVID-19 on the industry
- 5.1.2. Pre COVID-19 and post COVID-19 market scenario

## **CHAPTER 6. GLOBAL GENE EDITING TOOLS MARKET, BY PRODUCT**

- 6.1. Market Snapshot
- 6.2. Global Gene Editing Tools Market by Product, Performance - Potential Analysis
- 6.3. Global Gene Editing Tools Market Estimates & Forecasts by Product, 2019-2028 (USD Billion)
- 6.4. Gene Editing Tools Market, Sub Segment Analysis
  - 6.4.1. Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR/Cas9)
  - 6.4.2. Zinc Finger Nucleases (ZFNs)
  - 6.4.3. Transcription Activator-Like Effector Nucleases (TALENs)
  - 6.4.4. Viral Systems
  - 6.4.5. Transposon Systems
  - 6.4.6. Others

## **CHAPTER 7. GLOBAL GENE EDITING TOOLS MARKET, BY APPLICATION**

- 7.1. Market Snapshot

- 7.2. Global Gene Editing Tools Market by Application, Performance - Potential Analysis
- 7.3. Global Gene Editing Tools Market Estimates & Forecasts by Application, 2019-2028 (USD Billion)
- 7.4. Gene Editing Tools Market, Sub Segment Analysis
  - 7.4.1. Veterinary Medicine
  - 7.4.2. Cell Line Engineering
  - 7.4.3. Bioremediation
  - 7.4.4. Food and Brewing Development
  - 7.4.5. Food Waste Management
  - 7.4.6. Biosensing Development
  - 7.4.7. Others

## **CHAPTER 8. GLOBAL GENE EDITING TOOLS MARKET, REGIONAL ANALYSIS**

- 8.1. Gene Editing Tools Market, Regional Market Snapshot
- 8.2. North America Gene Editing Tools Market
  - 8.2.1. U.S. Gene Editing Tools Market
    - 8.2.1.1. Product breakdown estimates & forecasts, 2019-2028
    - 8.2.1.2. Application breakdown estimates & forecasts, 2019-2028
  - 8.2.2. Canada Gene Editing Tools Market
- 8.3. Europe Gene Editing Tools Market Snapshot
  - 8.3.1. U.K. Gene Editing Tools Market
  - 8.3.2. Germany Gene Editing Tools Market
  - 8.3.3. France Gene Editing Tools Market
  - 8.3.4. Spain Gene Editing Tools Market
  - 8.3.5. Italy Gene Editing Tools Market
  - 8.3.6. Rest of Europe Gene Editing Tools Market
- 8.4. Asia-Pacific Gene Editing Tools Market Snapshot
  - 8.4.1. China Gene Editing Tools Market
  - 8.4.2. India Gene Editing Tools Market
  - 8.4.3. Japan Gene Editing Tools Market
  - 8.4.4. Australia Gene Editing Tools Market
  - 8.4.5. South Korea Gene Editing Tools Market
  - 8.4.6. Rest of Asia Pacific Gene Editing Tools Market
- 8.5. Latin America Gene Editing Tools Market Snapshot
  - 8.5.1. Brazil Gene Editing Tools Market
  - 8.5.2. Mexico Gene Editing Tools Market
- 8.6. Rest of The World Gene Editing Tools Market

## **CHAPTER 9. COMPETITIVE INTELLIGENCE**

### 9.1. Top Market Strategies

### 9.2. Company Profiles

#### 9.2.1. Intellia Therapeutics, Inc.

##### 9.2.1.1. Key Information

##### 9.2.1.2. Overview

##### 9.2.1.3. Financial (Subject to Data Availability)

##### 9.2.1.4. Product Summary

##### 9.2.1.5. Recent Developments

#### 9.2.2. Thermo Fisher Scientific, Inc.

#### 9.2.3. ERS Genomics

#### 9.2.4. CRISPR Therapeutics

#### 9.2.5. Merck KGaA

#### 9.2.6. Editas Medicine

#### 9.2.7. GE Healthcare Dharmacon Inc.

#### 9.2.8. Takara Bio USA

#### 9.2.9. New England Biolabs

#### 9.2.10. Horizon Discovery Group plc

## **CHAPTER 10. RESEARCH PROCESS**

### 10.1. Research Process

#### 10.1.1. Data Mining

#### 10.1.2. Analysis

#### 10.1.3. Market Estimation

#### 10.1.4. Validation

#### 10.1.5. Publishing

### 10.2. Research Attributes

### 10.3. Research Assumption



## List Of Tables

### LIST OF TABLES

TABLE 1. Global Gene Editing Tools market, report scope

TABLE 2. Global Gene Editing Tools market estimates & forecasts by Region  
2019-2028 (USD Billion)

TABLE 3. Global Gene Editing Tools market estimates & forecasts by Product  
2019-2028 (USD Billion)

TABLE 4. Global Gene Editing Tools market estimates & forecasts by Application  
2019-2028 (USD Billion)

TABLE 5. Global Gene Editing Tools market by segment, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 6. Global Gene Editing Tools market by region, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 7. Global Gene Editing Tools market by segment, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 8. Global Gene Editing Tools market by region, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 9. Global Gene Editing Tools market by segment, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 10. Global Gene Editing Tools market by region, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 11. Global Gene Editing Tools market by segment, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 12. Global Gene Editing Tools market by region, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 13. Global Gene Editing Tools market by segment, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 14. Global Gene Editing Tools market by region, estimates & forecasts,  
2019-2028 (USD Billion)

TABLE 15. U.S. Gene Editing Tools market estimates & forecasts, 2019-2028 (USD  
Billion)

TABLE 16. U.S. Gene Editing Tools market estimates & forecasts by segment  
2019-2028 (USD Billion)

TABLE 17. U.S. Gene Editing Tools market estimates & forecasts by segment  
2019-2028 (USD Billion)

TABLE 18. Canada Gene Editing Tools market estimates & forecasts, 2019-2028 (USD  
Billion)

TABLE 19. Canada Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 20. Canada Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 21. UK Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 22. UK Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 23. UK Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 24. Germany Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 25. Germany Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 26. Germany Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 27. RoE Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 28. RoE Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 29. RoE Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 30. China Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 31. China Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 32. China Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 33. India Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 34. India Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 35. India Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 36. Japan Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 37. Japan Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 38. Japan Gene Editing Tools market estimates & forecasts by segment

2019-2028 (USD Billion)

TABLE 39. RoAPAC Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 40. RoAPAC Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 41. RoAPAC Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 42. Brazil Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 43. Brazil Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 44. Brazil Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 45. Mexico Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 46. Mexico Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 47. Mexico Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 48. RoLA Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 49. RoLA Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 50. RoLA Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 51. Row Gene Editing Tools market estimates & forecasts, 2019-2028 (USD Billion)

TABLE 52. Row Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 53. Row Gene Editing Tools market estimates & forecasts by segment 2019-2028 (USD Billion)

TABLE 54. List of secondary sources, used in the study of global Gene Editing Tools market

TABLE 55. List of primary sources, used in the study of global Gene Editing Tools market

TABLE 56. Years considered for the study

TABLE 57. Exchange rates considered

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Gene Editing Tools market, research methodology
- FIG 2. Global Gene Editing Tools market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Gene Editing Tools market, key trends 2021
- FIG 5. Global Gene Editing Tools market, growth prospects 2022-2028
- FIG 6. Global Gene Editing Tools market, porters 5 force model
- FIG 7. Global Gene Editing Tools market, pest analysis
- FIG 8. Global Gene Editing Tools market, value chain analysis
- FIG 9. Global Gene Editing Tools market by segment, 2019 & 2028 (USD Billion)
- FIG 10. Global Gene Editing Tools market by segment, 2019 & 2028 (USD Billion)
- FIG 11. Global Gene Editing Tools market by segment, 2019 & 2028 (USD Billion)
- FIG 12. Global Gene Editing Tools market by segment, 2019 & 2028 (USD Billion)
- FIG 13. Global Gene Editing Tools market by segment, 2019 & 2028 (USD Billion)
- FIG 14. Global Gene Editing Tools market, regional snapshot 2019 & 2028
- FIG 15. North America Gene Editing Tools market 2019 & 2028 (USD Billion)
- FIG 16. Europe Gene Editing Tools market 2019 & 2028 (USD Billion)
- FIG 17. Asia pacific Gene Editing Tools market 2019 & 2028 (USD Billion)
- FIG 18. Latin America Gene Editing Tools market 2019 & 2028 (USD Billion)
- FIG 19. Global Gene Editing Tools market, company market share analysis (2021)

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