

gRNA Market Size, Share & Trends Analysis Report By Product & Service (Products, Custom gRNA Synthesis Services), By gRNA Type (Research-use, GPM-grade), By Application, By End-use, By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

Summary

The global gRNA market size was estimated at USD 579.5 million in 2024 and is projected to reach USD 2.66 billion by 2033, growing at a CAGR of 18.64% from 2025 to 2033. gRNA is in high demand because it is essential for CRISPR-based genetic editing.

Its ability to accurately guide the CRISPR system to specific DNA sequences enables precise gene modifications, driving breakthroughs in medicine, agriculture, and biotechnology.

Expansion of CRISPR Gene Editing Applications

The global demand for gRNA is rising sharply due to the rapid expansion of CRISPR applications across research and industry. As the critical element that directs CRISPR to specific DNA or RNA targets, every CRISPR workflow depends on precise and reliable gRNA. Increasing use of CRISPR in functional genomics, knockout/knock-in studies, engineered cell models, and high-throughput screening has driven strong growth in customized gRNA consumption. With CRISPR advancing from research to clinical and therapeutic applications, especially in gene therapy and precision medicine, more biopharma and academic labs are adopting the technology, further escalating the need for specialized gRNA. For instance, in October 2021, in Germany, Merck licensed

its patented CRISPR-Cas9 technology to Collecta, enabling advanced knock-in applications.

The growing diversification of CRISPR systems is further boosting demand for tailored gRNA products. As gene-editing advances from traditional Cas9 to next-generation tools like Cas12 and Cas13 for RNA targeting, for compact delivery, and platforms such as base and prime editing, researchers require highly optimized gRNAs with greater efficiency and minimal off-target effects.

Global gRNA Market Report Segmentation

This report forecasts revenue growth and provides an analysis of the latest trends in each of the sub-segments from 2021 to 2033. For this report, Grand View Research has segmented the global gRNA market report based on product & services, gRNA type, application, end-use, and region:

Product & Service Outlook (Revenue in USD Million, 2021 - 2033)

Products

gRNA Final Products

gRNA Synthesis Products

gRNA Synthesis Kits

Plasmids

Others

Custom gRNA Synthesis Services

gRNA Type Outlook (Revenue, USD Million, 2021 - 2033)

Research-Use

GMP-grade

Application Outlook (Revenue, USD Million; 2021 - 2033)

Genome Engineering

Disease Model Studies

Functional Genomics

Epigenetics

Others

End-use Outlook (Revenue, USD Million; 2021 - 2033)

Pharmaceutical & Biotechnology Companies

Academic Research Institutes

CMOs & CROs

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

China

Japan

India

Australia

Thailand

South Korea

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

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Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation and Scope
- 1.2. Market Definitions
 - 1.2.1. Product & Service
 - 1.2.2. gRNA Type
 - 1.2.3. Application
 - 1.2.4. End Use
- 1.3. Information analysis
- 1.4. Market formulation & data visualization
- 1.5. Data validation & publishing
- 1.6. Information Procurement
 - 1.6.1. Primary Research
- 1.7. Information or Data Analysis
- 1.8. Market Formulation & Validation
- 1.9. Market Model
- 1.10. Objectives
 - 1.10.1. Objective
 - 1.10.2. Objective

CHAPTER 2. GRNA MARKET: EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Snapshot
- 2.3. Competitive Landscape Snapshot

CHAPTER 3. GRNA MARKET VARIABLES AND TRENDS

- 3.1. Market Segmentation and Scope
- 3.2. Market Lineage Outlook
 - 3.2.1. Parent Market Outlook
 - 3.2.2. Related/Ancillary Market Outlook
- 3.3. Market Dynamics
- 3.4. Market Drivers Analysis
 - 3.4.1. Expansion of CRISPR gene editing applications
 - 3.4.2. Growing R&D in proteomics and genomics
- 3.5. Market Restraint Analysis

- 3.5.1. Regulatory Challenges
- 3.5.2. Off-Target Effects and Safety Concerns
- 3.6. Business Environment Analysis
 - 3.6.1. Porter's Five Forces Analysis
 - 3.6.2. PESTLE Analysis

CHAPTER 4. PRODUCT & SERVICE ESTIMATES & TREND ANALYSIS

- 4.1. Product & Service Segment Dashboard
- 4.2. gRNA market: Product & Service Movement Analysis
- 4.3. Products
 - 4.3.1. Products Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 4.3.2. gRNA Final Products
 - 4.3.2.1. gRNA Final Products Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 4.3.3. gRNA Synthesis Products
 - 4.3.3.1. gRNA Synthesis Products Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 4.3.3.2. gRNA Synthesis Kits
 - 4.3.3.2.1. gRNA Synthesis Kits Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 4.3.3.3. Plasmids
 - 4.3.3.3.1. Plasmids Market Estimates and Forecasts, 2021 - 2033 (USD Million)
 - 4.3.3.4. Others
 - 4.3.3.4.1. Others Market Estimates and Forecasts, 2021 - 2033 (USD Million)
- 4.4. Custom gRNA Synthesis Services
 - 4.4.1. Custom gRNA Synthesis Services Market Estimates and Forecasts, 2021 - 2033 (USD Million)

CHAPTER 5. GRNA TYPE ESTIMATES & TREND ANALYSIS

- 5.1. gRNA Type Segment Dashboard
- 5.2. gRNA market: gRNA Type Movement Analysis
- 5.3. Research-Use
 - 5.3.1. Research-Use Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)
- 5.4. GMP-grade
 - 5.4.1. GMP-grade Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

CHAPTER 6. APPLICATION ESTIMATES & TREND ANALYSIS

6.1. Application Segment Dashboard

6.2. gRNA market: Application Movement Analysis

6.3. Genome Engineering

6.3.1. Genome Engineering Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

6.4. Disease Model Studies

6.4.1. Disease Model Studies Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

6.5. Functional Genomics

6.5.1. Functional Genomics Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

6.6. Epigenetics

6.6.1. Epigenetics Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

6.7. Others

6.7.1. Others Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

CHAPTER 7. END USE ESTIMATES & TREND ANALYSIS

7.1. End Use Segment Dashboard

7.2. gRNA market: End-Use Movement Analysis

7.3. Pharmaceutical & Biotechnology Companies

7.3.1. Pharmaceutical & Biotechnology Companies Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

7.4. Academic Research Institutes

7.4.1. Academic Research Institutes Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

7.5. CMOs & CROs

7.5.1. CMOs & CROs Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

CHAPTER 8. REGIONAL BUSINESS ANALYSIS

8.1. Regional Market Share Analysis, 2024 & 2033

8.2. Regional Market Dashboard

8.3. Market Size & Forecasts Trend Analysis, 2021 to 2033

8.4. North America

8.4.1. North America gRNA Market Estimates And Forecast, 2021 - 2033 (USD Million)

8.4.2. U.S.

8.4.2.1. Key Country Dynamics

8.4.2.2. Competitive Scenario

8.4.2.3. Regulatory Framework

8.4.2.4. Target Disease Prevalence

8.4.2.5. U.S. gRNA Market, 2021 - 2033 (USD Million)

8.4.3. Canada

8.4.3.1. Key Country Dynamics

8.4.3.2. Competitive Scenario

8.4.3.3. Regulatory Framework

8.4.3.4. Target Disease Prevalence

8.4.3.5. Canada gRNA Market, 2021 - 2033 (USD Million)

8.4.4. Mexico

8.4.4.1. Key Country Dynamics

8.4.4.2. Competitive Scenario

8.4.4.3. Regulatory Framework

8.4.4.4. Target Disease Prevalence

8.4.4.5. Mexico gRNA Market, 2021 - 2033 (USD Million)

8.5. Europe

8.5.1. Europe gRNA Market, 2021 - 2033 (USD Million)

8.5.2. UK

8.5.2.1. Key Country Dynamics

8.5.2.2. Competitive Scenario

8.5.2.3. Regulatory Framework

8.5.2.4. Target Disease Prevalence

8.5.2.5. UK gRNA Market, 2021 - 2033 (USD Million)

8.5.3. Germany

8.5.3.1. Key Country Dynamics

8.5.3.2. Competitive Scenario

8.5.3.3. Regulatory Framework

8.5.3.4. Target Disease Prevalence

8.5.3.5. Germany gRNA Market, 2021 - 2033 (USD Million)

8.5.4. Spain

8.5.4.1. Key Country Dynamics

8.5.4.2. Competitive Scenario

8.5.4.3. Regulatory Framework

8.5.4.4. Target Disease Prevalence

8.5.4.5. Spain gRNA Market, 2021 - 2033 (USD Million)

8.5.5. France

8.5.5.1. Key Country Dynamics

8.5.5.2. Competitive Scenario

8.5.5.3. Regulatory Framework

8.5.5.4. Target Disease Prevalence

8.5.5.5. France gRNA Market, 2021 - 2033 (USD Million)

8.5.6. Italy

8.5.6.1. Key Country Dynamics

8.5.6.2. Competitive Scenario

8.5.6.3. Regulatory Framework

8.5.6.4. Target Disease Prevalence

8.5.6.5. Italy gRNA Market, 2021 - 2033 (USD Million)

8.5.7. Denmark

8.5.7.1. Key Country Dynamics

8.5.7.2. Competitive Scenario

8.5.7.3. Regulatory Framework

8.5.7.4. Target Disease Prevalence

8.5.7.5. Denmark gRNA Market, 2021 - 2033 (USD Million)

8.5.8. Sweden

8.5.8.1. Key Country Dynamics

8.5.8.2. Competitive Scenario

8.5.8.3. Regulatory Framework

8.5.8.4. Target Disease Prevalence

8.5.8.5. Sweden gRNA Market, 2021 - 2033 (USD Million)

8.5.9. Norway

8.5.9.1. Key Country Dynamics

8.5.9.2. Competitive Scenario

8.5.9.3. Regulatory Framework

8.5.9.4. Target Disease Prevalence

8.5.9.5. Norway gRNA Market, 2021 - 2033 (USD Million)

8.6. Asia Pacific

8.6.1. Asia-Pacific gRNA Market, 2021 - 2033 (USD Million)

8.6.2. Japan

8.6.2.1. Key Country Dynamics

8.6.2.2. Competitive Scenario

8.6.2.3. Regulatory Framework

8.6.2.4. Target Disease Prevalence

8.6.2.5. Japan gRNA Market, 2021 - 2033 (USD Million)

8.6.3. China

- 8.6.3.1. Key Country Dynamics
- 8.6.3.2. Competitive Scenario
- 8.6.3.3. Regulatory Framework
- 8.6.3.4. Target Disease Prevalence
- 8.6.3.5. China gRNA Market, 2021 - 2033 (USD Million)

8.6.4. India

- 8.6.4.1. Key Country Dynamics
- 8.6.4.2. Competitive Scenario
- 8.6.4.3. Regulatory Framework
- 8.6.4.4. Target Disease Prevalence
- 8.6.4.5. India gRNA Market, 2021 - 2033 (USD Million)

8.6.5. South Korea

- 8.6.5.1. Key Country Dynamics
- 8.6.5.2. Competitive Scenario
- 8.6.5.3. Regulatory Framework
- 8.6.5.4. Target Disease Prevalence
- 8.6.5.5. South Korea gRNA Market, 2021 - 2033 (USD Million)

8.6.6. Thailand

- 8.6.6.1. Key Country Dynamics
- 8.6.6.2. Competitive Scenario
- 8.6.6.3. Regulatory Framework
- 8.6.6.4. Target Disease Prevalence
- 8.6.6.5. Thailand gRNA Market, 2021 - 2033 (USD Million)

8.6.7. Australia

- 8.6.7.1. Key Country Dynamics
- 8.6.7.2. Competitive Scenario
- 8.6.7.3. Regulatory Framework
- 8.6.7.4. Target Disease Prevalence
- 8.6.7.5. Australia gRNA Market, 2021 - 2033 (USD Million)

8.7. Latin America

8.7.1. Latin America gRNA Market, 2021 - 2033 (USD Million)

8.7.2. Brazil

- 8.7.2.1. Key Country Dynamics
- 8.7.2.2. Competitive Scenario
- 8.7.2.3. Regulatory Framework
- 8.7.2.4. Target Disease Prevalence
- 8.7.2.5. Brazil gRNA Market, 2021 - 2033 (USD Million)

8.7.3. Argentina

- 8.7.3.1. Key Country Dynamics
- 8.7.3.2. Competitive Scenario
- 8.7.3.3. Regulatory Framework
- 8.7.3.4. Target Disease Prevalence
- 8.7.3.5. Argentina gRNA Market, 2021 - 2033 (USD Million)

8.8. MEA

- 8.8.1. MEA gRNA Market, 2021 - 2033 (USD Million)
- 8.8.2. South Africa
 - 8.8.2.1. Key Country Dynamics
 - 8.8.2.2. Competitive Scenario
 - 8.8.2.3. Regulatory Framework
 - 8.8.2.4. Target Disease Prevalence
 - 8.8.2.5. South Africa gRNA Market, 2021 - 2033 (USD Million)

8.8.3. Saudi Arabia

- 8.8.3.1. Key Country Dynamics
- 8.8.3.2. Competitive Scenario
- 8.8.3.3. Regulatory Framework
- 8.8.3.4. Target Disease Prevalence
- 8.8.3.5. Saudi Arabia gRNA Market, 2021 - 2033 (USD Million)

8.8.4. UAE

- 8.8.4.1. Key Country Dynamics
- 8.8.4.2. Competitive Scenario
- 8.8.4.3. Regulatory Framework
- 8.8.4.4. Target Disease Prevalence
- 8.8.4.5. UAE gRNA Market, 2021 - 2033 (USD Million)

8.8.5. Kuwait

- 8.8.5.1. Key Country Dynamics
- 8.8.5.2. Competitive Scenario
- 8.8.5.3. Regulatory Framework
- 8.8.5.4. Target Disease Prevalence
- 8.8.5.5. Kuwait gRNA Market, 2021 - 2033 (USD Million)

CHAPTER 9. COMPETITIVE LANDSCAPE

- 9.1. Company Categorization
- 9.2. Strategy Mapping
- 9.3. Market Position Analysis, 2024
- 9.4. Company Profiles
 - 9.4.1. Thermo Fisher Scientific, Inc

- 9.4.1.1. Company Overview
- 9.4.1.2. Financial Performance
- 9.4.1.3. Product Benchmarking
- 9.4.1.4. Strategic Initiatives
- 9.4.2. Agilent Technologies, Inc.
 - 9.4.2.1. Company Overview
 - 9.4.2.2. Financial Performance
 - 9.4.2.3. Product Benchmarking
 - 9.4.2.4. Strategic Initiatives
- 9.4.3. System Biosciences, LLC.
 - 9.4.3.1. Company Overview
 - 9.4.3.2. Financial Performance
 - 9.4.3.3. Product Benchmarking
 - 9.4.3.4. Strategic Initiatives
- 9.4.4. Jena Bioscience GmbH
 - 9.4.4.1. Company Overview
 - 9.4.4.2. Financial Performance
 - 9.4.4.3. Product Benchmarking
 - 9.4.4.4. Strategic Initiatives
- 9.4.5. Merck KGaA
 - 9.4.5.1. Company Overview
 - 9.4.5.2. Financial Performance
 - 9.4.5.3. Product Benchmarking
 - 9.4.5.4. Strategic Initiatives
- 9.4.6. Azenta Life Sciences (Genewiz)
 - 9.4.6.1. Company Overview
 - 9.4.6.2. Product Benchmarking
 - 9.4.6.3. Strategic Initiatives
- 9.4.7. Takara Bio Inc.
 - 9.4.7.1. Company Overview
 - 9.4.7.2. Financial Performance
 - 9.4.7.3. Product Benchmarking
 - 9.4.7.4. Strategic Initiatives
- 9.4.8. Synbio Technologies
 - 9.4.8.1. Company Overview
 - 9.4.8.2. Financial Performance
 - 9.4.8.3. Product Benchmarking
 - 9.4.8.4. Strategic Initiatives
- 9.4.9. Revvity Inc (Horizon Discovery Ltd.)

- 9.4.9.1. Company Overview
- 9.4.9.2. Financial Performance
- 9.4.9.3. Product Benchmarking
- 9.4.9.4. Strategic Initiatives
- 9.4.10. Synthego
 - 9.4.10.1. Company Overview
 - 9.4.10.2. Financial Performance
 - 9.4.10.3. Product Benchmarking
 - 9.4.10.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

TABLE 1	Market Research Process
TABLE 2	Information Procurement
TABLE 3	Primary Research Pattern
TABLE 4	Market Research Approaches
TABLE 5	Value Chain-Based Sizing & Forecasting
TABLE 6	Market Formulation & Validation
TABLE 7	gRNA market Segmentation
TABLE 8	Market Snapshot, 2024
TABLE 9	Market Trends & Outlook
TABLE 10	Market Driver Relevance Analysis (Current & Future Impact)
TABLE 11	Market Restraint Relevance Analysis (Current & Future Impact)
TABLE 12	SWOT Analysis, By Factor (Political & Legal, Economic, And Technological)
TABLE 13	Porter's Five Forces Analysis
TABLE 14	Global gRNA market: Product & Service Movement Analysis
TABLE 15	Global gRNA market, for Products, 2021 - 2033 (USD Million)
TABLE 16	Global gRNA market, for gRNA Final Products, 2021 - 2033 (USD Million)
TABLE 17	Global gRNA market, for gRNA Synthesis Products, 2021 - 2033 (USD Million)
TABLE 18	Global gRNA market, for gRNA Synthesis Kits, 2021 - 2033 (USD Million)
TABLE 19	Global gRNA market, for Plasmids, 2021 - 2033 (USD Million)
TABLE 20	Global gRNA market, for Others, 2021 - 2033 (USD Million)
TABLE 21	Global gRNA market, for Custom gRNA Synthesis Services, 2021 - 2033 (USD Million)
TABLE 22	Global gRNA market: gRNA Type Movement Analysis
TABLE 23	Global gRNA market, for Research-Use, 2021 - 2033 (USD Million)
TABLE 24	Global gRNA market, for GMP-grade, 2021 - 2033 (USD Million)
TABLE 25	Global gRNA market: Application Movement Analysis
TABLE 26	Global gRNA market, for Genome Engineering, 2021 - 2033 (USD Million)
TABLE 27	Global gRNA market, for Disease Model Studies, 2021 - 2033 (USD Million)
TABLE 28	Global gRNA market, for Functional Genomics, 2021 - 2033 (USD Million)
TABLE 29	Global gRNA market, for Epigenetics, 2021 - 2033 (USD Million)
TABLE 30	Global gRNA market, for Others, 2021 - 2033 (USD Million)
TABLE 31	Global gRNA market: End Use Movement Analysis
TABLE 32	Global gRNA market, for Pharmaceutical & Biotechnology Companies, 2021

- 2033 (USD Million)

TABLE 33 Global gRNA market, for Academic Research Institutes, 2021 - 2033 (USD Million)

TABLE 34 Global gRNA market, for CMOs & CROs, 2021 - 2033 (USD Million)

TABLE 35 Regional Marketplace: Key Takeaways

TABLE 36 Regional Outlook, 2023 & 2033

TABLE 37 Global gRNA market: Region Movement Analysis

TABLE 38 North America gRNA market, 2021 - 2033 (USD Million)

TABLE 39 U.S. gRNA market, 2021 - 2033 (USD Million)

TABLE 40 Canada gRNA market, 2021 - 2033 (USD Million)

TABLE 41 Mexico gRNA market, 2021 - 2033 (USD Million)

TABLE 42 Europe gRNA market, 2021 - 2033 (USD Million)

TABLE 43 Germany gRNA market, 2021 - 2033 (USD Million)

TABLE 44 UK gRNA market, 2021 - 2033 (USD Million)

TABLE 45 France gRNA market, 2021 - 2033 (USD Million)

TABLE 46 Italy gRNA market, 2021 - 2033 (USD Million)

TABLE 47 Spain gRNA market, 2021 - 2033 (USD Million)

TABLE 48 Denmark gRNA market, 2021 - 2033 (USD Million)

TABLE 49 Sweden gRNA market, 2021 - 2033 (USD Million)

TABLE 50 Norway gRNA market, 2021 - 2033 (USD Million)

TABLE 51 Asia Pacific gRNA market, 2021 - 2033 (USD Million)

TABLE 52 Japan gRNA market, 2021 - 2033 (USD Million)

TABLE 53 China gRNA market, 2021 - 2033 (USD Million)

TABLE 54 India gRNA market, 2021 - 2033 (USD Million)

TABLE 55 Australia gRNA market, 2021 - 2033 (USD Million)

TABLE 56 South Korea gRNA market, 2021 - 2033 (USD Million)

TABLE 57 Thailand gRNA market, 2021 - 2033 (USD Million)

TABLE 58 Latin America gRNA market, 2021 - 2033 (USD Million)

TABLE 59 Brazil gRNA market, 2021 - 2033 (USD Million)

TABLE 60 Argentina gRNA market, 2021 - 2033 (USD Million)

TABLE 61 Middle East and Africa gRNA market, 2021 - 2033 (USD Million)

TABLE 62 South Africa gRNA market, 2021 - 2033 (USD Million)

TABLE 63 Saudi Arabia gRNA market, 2021 - 2033 (USD Million)

TABLE 64 UAE gRNA market, 2021 - 2033 (USD Million)

TABLE 65 Kuwait gRNA market, 2021 - 2033 (USD Million)

List Of Figures

LIST OF FIGURES

- FIG. 1 Market research process
- FIG. 2 Data triangulation techniques
- FIG. 3 Market formulation & validation
- FIG. 4 gRNA market: Market outlook
- FIG. 5 gRNA market: Segment outlook
- FIG. 6 gRNA market: Competitive landscape outlook
- FIG. 7 Parent market outlook
- FIG. 8 gRNA market driver impact
- FIG. 9 gRNA market restraint impact
- FIG. 10 gRNA market: Product & Service outlook and key takeaways
- FIG. 11 gRNA market: Product & Service movement analysis
- FIG. 12 Products market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 13 gRNA Final Products market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 14 gRNA Synthesis Products market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 15 gRNA Synthesis Kits market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 16 Plasmids market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 17 Others market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 18 Custom gRNA Synthesis Services market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 19 gRNA market: gRNA Type outlook and key takeaways
- FIG. 20 gRNA market: gRNA Type movement analysis
- FIG. 21 Research-Use market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 22 GMP-grade market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 23 gRNA market: Application outlook and key takeaways
- FIG. 24 gRNA market: Application movement analysis
- FIG. 25 Genome Engineering market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 26 Disease Model Studies market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 27 Functional Genomics market estimates and forecasts, 2021 - 2033 (USD Million)

- FIG. 28 Epigenetics market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 29 Others market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 30 gRNA market: End use outlook and key takeaways
- FIG. 31 gRNA market: End use movement analysis
- FIG. 32 Academic & research institutes market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 33 Pharmaceutical & biotechnology companies market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 34 CMOs & CROs market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 35 Global gRNA market: Regional outlook and key takeaways
- FIG. 36 Global gRNA market: Regional movement analysis
- FIG. 37 North America market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 38 Key country dynamics
- FIG. 39 U.S. market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 40 Key country dynamics
- FIG. 41 Canada market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 42 Key country dynamics
- FIG. 43 Mexico market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 44 Europe market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 45 Key country dynamics
- FIG. 46 UK market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 47 Key country dynamics
- FIG. 48 Germany market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 49 Key country dynamics
- FIG. 50 France market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 51 Key country dynamics
- FIG. 52 Italy market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 53 Key country dynamics
- FIG. 54 Spain market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 55 Key country dynamics
- FIG. 56 Denmark market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 57 Key country dynamics
- FIG. 58 Sweden market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 59 Key country dynamics
- FIG. 60 Norway market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 61 Asia Pacific market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 62 Key country dynamics
- FIG. 63 China market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 64 Key country dynamics

- FIG. 65 Japan market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 66 Key country dynamics
- FIG. 67 India market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 68 Key country dynamics
- FIG. 69 Thailand market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 70 Key country dynamics
- FIG. 71 South Korea market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 72 Key country dynamics
- FIG. 73 Australia market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 74 Latin America market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 75 Key country dynamics
- FIG. 76 Brazil market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 77 Key country dynamics
- FIG. 78 Argentina market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 79 Middle East and Africa market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 80 Key country dynamics
- FIG. 81 South Africa market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 82 Key country dynamics
- FIG. 83 Saudi Arabia market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 84 Key country dynamics
- FIG. 85 UAE market estimates and forecasts, 2021 - 2033 (USD Million)
- FIG. 86 Key country dynamics
- FIG. 87 Kuwait market estimates and forecasts, 2021 - 2033 (USD Million)

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